

University of California

Report on Financial Statements and Expenditures of Federal Awards in Accordance with the Uniform Guidance For the Year Ended June 30, 2018

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University of California

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Report of Independent Auditors

To the Regents of the University of California

Report on the Financial Statements

We have audited the accompanying financial statements of the University of California (the "University"), a component unit of the State of California, its aggregate discretely presented component units, the University of California Retirement System and the University of California Retiree Health Benefit Trust, as of and for the years ended June 30, 2018 and 2017, and the related notes to the financial statements which collectively comprise the University's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on the financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement. The financial statements of the University's discretely presented component units were not audited in accordance with *Government Auditing Standards*.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on our judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, we consider internal control relevant to the University's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.



Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the University, its aggregate discretely presented component units, the University of California Retirement System and the University of California Retiree Health Benefit Trust as of June 30, 2018 and 2017 and the respective changes in financial position and, where applicable, cash flows thereof for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

The accompanying management's discussion and analysis on pages 4 through 22 and the required supplemental information on pages 93 through 100 are required by accounting principles generally accepted in the United States of America to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audits of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming an opinion on the financial statements as a whole. The accompanying summary schedule of expenditures of federal awards and schedule of expenditures of federal awards for the year ended June 30, 2018 are presented for purposes of additional analysis as required by Title 2 *U.S. Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance) and are not a required part of the financial statements. As described in Note 2 to the schedules of expenditures of federal awards, the accompanying summary schedule of expenditures of federal awards and schedule of expenditures of federal awards were prepared on the cash basis, which is a comprehensive basis of accounting other than accounting principles generally accepted in the United States of America. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used



to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the summary schedule of expenditures of federal awards and schedule of expenditures of federal awards are fairly stated, in all material respects, on the basis of accounting described in Note 2, in relation to the financial statements as a whole.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated October 12, 2018 on our consideration of University's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing and not to provide an opinion on the effectiveness of internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the University's internal control over financial reporting and compliance.

PricewaterhouseCoopers LLP

San Francisco, California
October 12, 2018

Management's Discussion and Analysis (Unaudited)

The objective of Management's Discussion and Analysis is to help readers of the University of California's financial statements better understand the financial position and operating activities for the year ended June 30, 2018, with selected comparative information for the years ended June 30, 2017 and 2016. This discussion has been prepared by management and should be read in conjunction with the financial statements and the notes to the financial statements. Unless otherwise indicated, years (2016, 2017 and 2018, etc.) in this discussion refer to the fiscal years ended June 30.

The University of California's financial report communicates financial information for the University of California (the "University"), the University of California campus foundations ("campus foundations"), the University of California Retirement System ("UCRS") and the University of California Retiree Health Benefit Trust ("UCRHBT") through five primary financial statements and notes to the financial statements. Three of the primary statements, the statements of net position, the statements of revenues, expenses and changes in net position and the statements of cash flows, present the financial position, changes in financial position and cash flows for the University and the affiliated campus foundations. The financial statements for the campus foundations are presented discretely from the University. Two of the primary statements, the statements of plans' and trust's fiduciary net position and the statements of changes in plans' and trust's fiduciary net position, present the financial position and operating activities for UCRS and UCRHBT. The notes to the financial statements provide additional information that is essential to a full understanding of the financial statements.

THE UNIVERSITY OF CALIFORNIA

The University of California, one of the largest and most acclaimed institutions of higher learning in the world, is dedicated to excellence in teaching, research, health care and public service. The University has annual resources of nearly \$35.7 billion and encompasses ten campuses, five medical centers, four law schools and a statewide Division of Agriculture and Natural Resources. The University is also involved in the operation and management of three national laboratories for the U.S. Department of Energy ("DOE").

Campuses. The ten campuses are located in Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, San Francisco, Santa Barbara and Santa Cruz. All of the campuses, except San Francisco, offer undergraduate, graduate and professional education; the San Francisco campus is devoted exclusively to graduate and professional education in health sciences.

Health sciences. The University operates one of the nation's largest health science and medical training programs. The instructional program is conducted in 16 health professional schools on six campuses. Our health programs include five medical centers, two dental schools, three nursing schools, two public health schools and two pharmacy schools, in addition to a school of optometry and a school of veterinary medicine. The University's medical schools play a leading role in the development of health services and advancement of medical science and research.

Law schools. The University has law schools at Berkeley, Davis, Irvine and Los Angeles. Also, the Hastings College of the Law in San Francisco is affiliated with the University, although not included in the financial reporting entity.

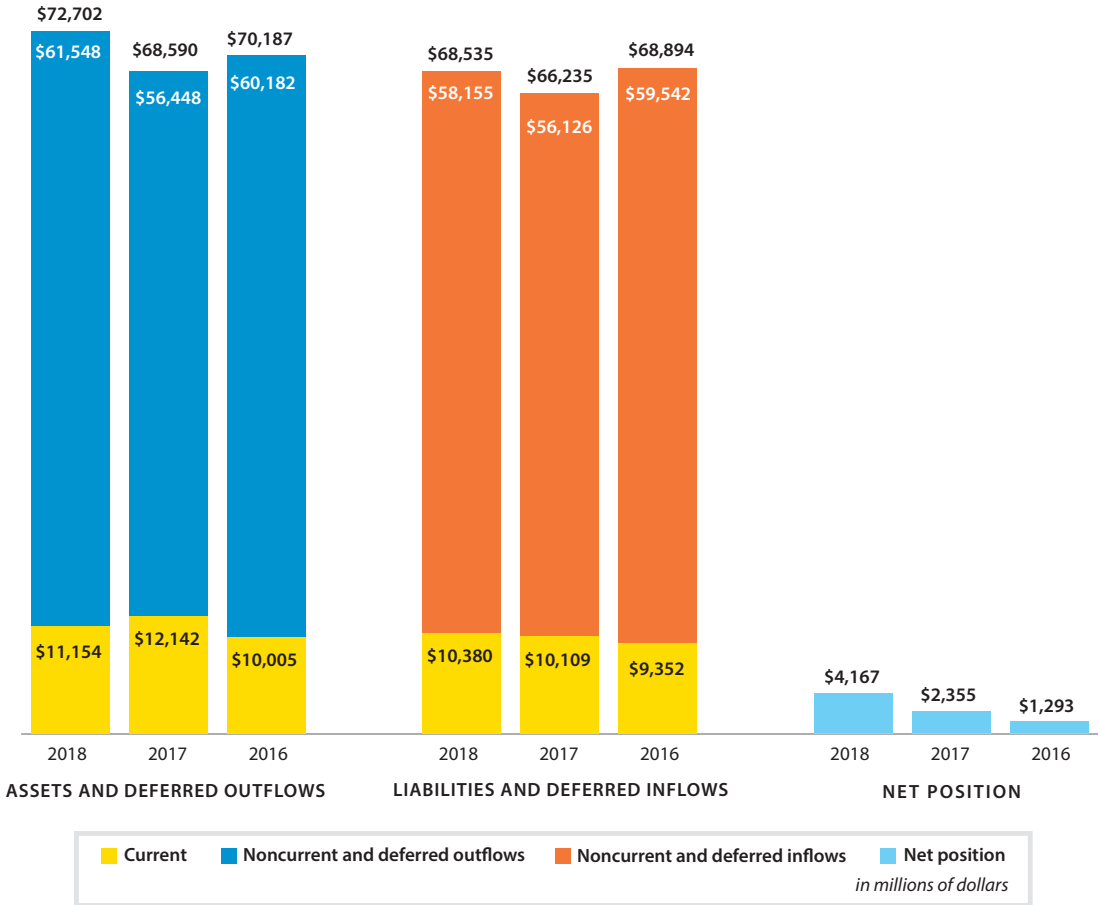
Agriculture and Natural Resources. The Division of Agriculture and Natural Resources is a statewide research and public service organization that serves a large and diverse agricultural community. The division collaborates on research with all campuses, and conducts studies at nine research and extension centers and on private land in cooperation with California producers. In addition, research and educational programs are conducted in each of the state’s 58 counties.

University Extension. The foremost continuing education program of its kind in size, scope and quality of instruction, University Extension offers almost 20,000 self-supporting courses statewide and in several foreign countries.

National laboratories. Under contract with the DOE, the University operates and manages the Ernest Orlando Lawrence Berkeley National Laboratory (LBNL) in California. The University is also a member in two separate joint ventures, Los Alamos National Security, LLC (LANS) and Lawrence Livermore National Security, LLC (LLNS) that operate and manage the Los Alamos National Laboratory (LANL) and Lawrence Livermore National Laboratory (LLNL), respectively, under contracts directly with the DOE. The laboratories conduct broad and diverse basic and applied research in nuclear science, energy production, national defense and environmental and health areas.

THE UNIVERSITY’S FINANCIAL POSITION

The University implemented new accounting policies for irrevocable split-interest agreements. These changes in accounting policies provide recognition and measurement guidance for agreements in which the University is a beneficiary. Financial information for 2017 and 2016 has been restated to retroactively apply these new accounting policies.



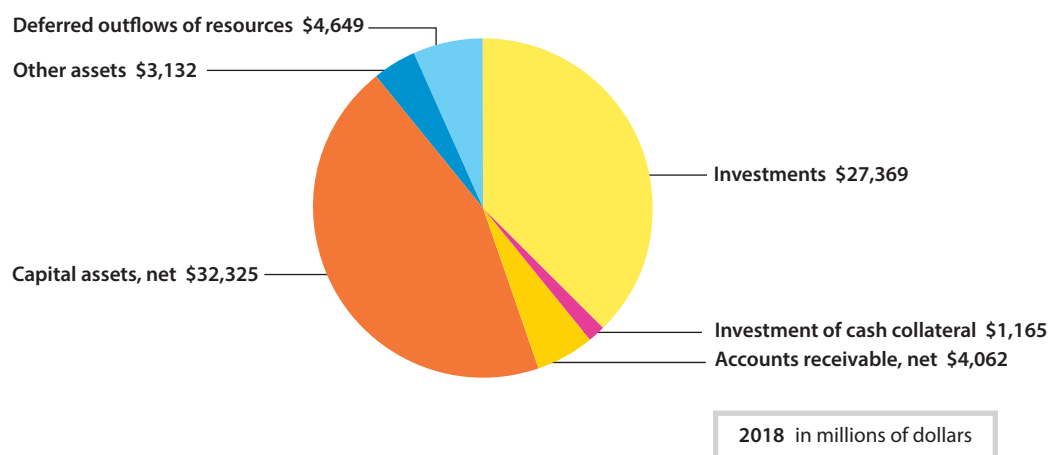
The statement of net position presents the financial position of the University at the end of each year. It displays all of the University’s assets, deferred outflows, liabilities and deferred inflows. The difference between assets, deferred outflows, liabilities and deferred inflows is net position.

The major components of the assets, deferred outflows, liabilities, deferred inflows and net position as of June 30, 2018, 2017 and 2016 are as follows:

(in millions of dollars)

	2018	2017	2016
ASSETS			
Investments	\$27,369	\$24,478	\$22,209
Investment of cash collateral	1,165	1,080	825
Accounts receivable, net	4,062	3,947	3,320
Capital assets, net	32,325	30,670	29,689
Other assets	3,132	2,865	3,974
Total assets	68,053	63,040	60,017
DEFERRED OUTFLOWS OF RESOURCES	4,649	5,550	10,170
LIABILITIES			
Debt, including commercial paper	23,659	20,503	19,951
Securities lending collateral	1,164	1,079	825
Net pension liability	9,775	10,739	15,125
Net retiree health benefits liability	18,862	19,290	21,795
Other liabilities	8,465	8,252	7,648
Total liabilities	61,925	59,863	65,344
DEFERRED INFLOWS OF RESOURCES	6,610	6,372	3,550
NET POSITION			
Net investment in capital assets	13,578	13,343	12,815
Restricted:			
Nonexpendable	1,183	1,156	1,130
Expendable	8,272	7,153	6,538
Unrestricted	(18,866)	(19,297)	(19,190)
Total net position	\$4,167	\$2,355	\$1,293

The University's Assets and Deferred Outflows



The University's total assets and deferred outflows of resources have increased to \$72.7 billion in 2018, compared to \$68.6 billion in 2017 and \$70.2 billion in 2016. Capital assets have increased due to continued investments in facilities in excess of depreciation. Investments increased due to positive financial market returns. Deferred outflows fluctuate primarily due to changes in the University's net pension and retiree health benefits liabilities.

Investments

Investments held by the University are principally carried in three investment pools: the Short Term Investment Pool (STIP), the Total Return Investment Pool (TRIP) and the General Endowment Pool (GEP). Cash for operations and bond proceeds for construction expenditures are invested in STIP. The University uses STIP to meet operational liquidity needs. TRIP provides the opportunity to maximize the return on long-term capital by taking advantage of the economies of scale of investing in a large pool across a broad range of asset classes. TRIP seeks to maximize to a total return objective and is intended to supplement STIP. The University maximizes its use of TRIP while still maintaining sufficient funds in STIP to meet operational and liquidity needs. The GEP is a balanced portfolio and the primary investment vehicle for individual endowments and funds functioning as endowments.

The Regents of the University of California ("The Regents") utilize asset allocation strategies that are intended to optimize investment returns over time in accordance with investment objectives and at acceptable levels of risk. GEP had a positive return of 8.9 percent in 2018, a positive return of 15.1 percent in 2017 and a negative return of 3.5 percent in 2016. TRIP had positive returns of 4.5 percent, 7.7 percent and 0.3 percent in 2018, 2017 and 2016, respectively. STIP had positive returns of 2.0 percent, 1.3 percent and 1.3 percent in 2018, 2017 and 2016, respectively.

Investment of cash collateral

The University participates in a securities lending program incorporating securities owned by both the University and UCRS as a means to augment income. Cash collateral fluctuates in response to changes in demand from borrowers and the availability of securities based on the University's asset allocation mix.

Accounts receivable, net

Accounts receivable include amounts due from state and federal governments on contracts and grants, patient receivables for medical centers and professional fees, investment income, proceeds from security sales and amounts due for private grants and contracts. Receivables fluctuate based on the timing of collections and investment sales activity.

Capital assets, net

The University's enrollment growth and continuing needs for renewal, modernization and seismic correction of existing facilities are the key drivers of capital investments. Capital spending continues at a brisk pace in order to provide the facilities necessary to support the University's teaching, research and public service mission and for patient care. Capital spending includes constructing and renovating academic buildings, research laboratories, libraries, student services, parking structures and infrastructure projects at all ten campuses and five medical centers. The University has a goal to increase affordable campus housing for more students given escalating living costs in many of the surrounding campus communities. In 2018, the largest portion of the capital asset additions were related to constructing housing facilities at several campuses. Additionally, construction continues to expand the Merced campus by 2020. The largest project in 2017 was the Jacobs Medical Center in San Diego. Total additions of capital assets were \$3.7 billion in 2018 as compared to \$3.0 billion in 2017 and \$3.0 billion in 2016.

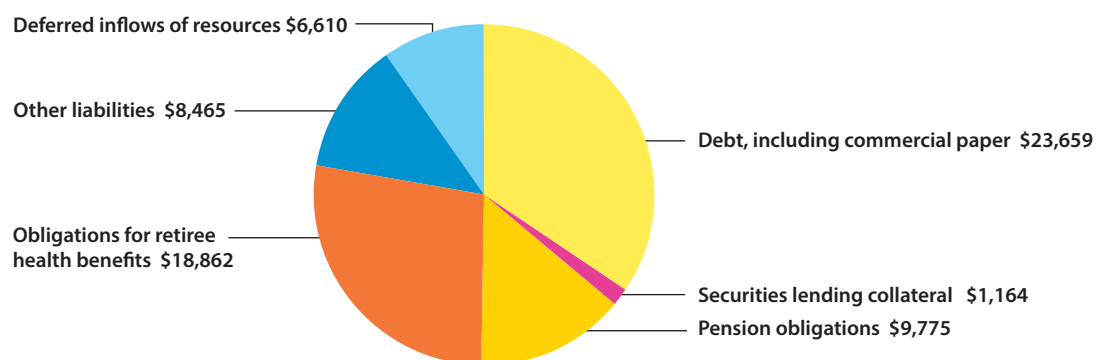
Other assets

Other assets include cash, investments held by trustees, pledge receivables, note and mortgage receivables, inventories and receivables from the DOE. The noncurrent receivable from the DOE, which fluctuates with the net pension and retiree health benefits liabilities due to the DOE's continuing responsibility to contribute for retired and terminated vested members of LLNS and LANL, decreased by \$284.3 million in 2018 as compared to 2017 and decreased by \$337.8 million in 2017 as compared to 2016. Investments held by trustees decreased by \$0.7 billion in 2017 due to the transfer of self-insurance reserves to the University's wholly owned captive insurance company. Since the captive insurance company is blended with the University, the captive's investments are included with the University's investments.

Deferred outflows of resources

Changes in fair values of the University's interest rate swaps that are determined to be hedging derivatives, losses on debt refundings and certain changes in the net pension and net retiree health benefits liabilities are reported as deferred outflows of resources. In 2018 and 2017, deferred outflows decreased due to higher than expected investment returns in the University of California Retirement Plan (UCRP) portfolio and an increase in the discount rate for the retiree health benefit liability.

The University's Liabilities and Deferred Inflows



2018 in millions of dollars

The University's liabilities and deferred inflows of resources increased to \$68.5 billion in 2018 as compared to \$66.2 billion in 2017 and \$68.9 billion in 2016. The changes in both 2018 and 2017 were primarily related to the issuance of additional debt to finance capital projects offset by decreases in the liabilities for pension and retiree health benefits.

Debt, including commercial paper

Capital assets are financed from a variety of sources, including University equity contributions, state support, gifts, revenue bonds, bank loans and leases or structures that involve separate legal entities. Commercial paper and bank loans provide interim financing for capital assets during the construction period.

Outstanding debt increased by \$3.2 billion and \$551.6 million in 2018 and 2017, respectively. A summary of the activity follows:

<i>(in millions of dollars)</i>		
	2018	2017
ADDITIONS TO OUTSTANDING DEBT		
General Revenue Bonds	\$1,853	\$1,136
Medical Center Pooled Revenue Bonds		1,046
Limited Project Revenue Bonds	1,692	
Capital leases	47	55
Other borrowings	285	126
Blended Component Unit Revenue Bonds	320	54
Bond premium, net	494	223
Additions to outstanding debt	4,691	2,640
REDUCTIONS TO OUTSTANDING DEBT		
Refinancing and prepayments	(1,014)	(1,321)
Scheduled principal payments	(392)	(400)
Payments on other borrowings	(7)	(64)
Commercial paper, net	(31)	(225)
Amortization of bond premium	(91)	(78)
Reductions to outstanding debt	(1,535)	(2,088)
Net increase in outstanding debt	\$3,156	\$552

The University's debt, which is used to primarily finance capital assets, includes \$781.8 million, \$812.7 million and \$1.0 billion of commercial paper outstanding at the end of 2018, 2017 and 2016, respectively. Total debt outstanding was \$23.7 billion at the end of 2018 compared to \$20.5 billion and \$20.0 billion at the end of 2017 and 2016, respectively.

To take advantage of favorable interest rates for tax-exempt bonds, the University financed several projects in 2018 that were approved for construction or had recently started construction. The University also refinanced debt in December 2017 in advance of tax reform changes that were effective as of January 1, 2018. In 2018, \$3.5 billion of debt was issued, including General Revenue Bonds totaling \$1.9 billion and Limited Project Revenue Bonds totaling \$1.7 billion to finance and refinance certain facilities and projects. Reductions to outstanding debt in 2018 were \$1.5 billion, including \$1.0 billion for one-time principal payments for the refinancing or refunding of previously outstanding debt. The refinancing and refunding of previously outstanding debt resulted in an economic gain of \$83.2 million.

In 2017, \$2.2 billion of debt was issued, including General Revenue Bonds totaling \$1.1 billion and Medical Center Pooled Revenue Bonds totaling \$1.0 billion to finance and refinance certain facilities and projects. Reductions to outstanding debt in 2017 were \$2.1 billion, including \$1.3 billion for one-time principal payments for the refinancing or refunding of previously outstanding debt. The refinancing and refunding of previously outstanding debt resulted in an economic gain of \$151.2 million.

In August 2016, the University entered into an agreement with a developer to design, construct, finance, operate and maintain certain auxiliary, administrative, academic and research facilities at the Merced campus by 2020, for which the University will finance \$600 million of the total costs. Other borrowings at June 2018 and 2017 include \$296.9 million and \$43.7 million, respectively, for the present value of the payments expected to be made over the term of the agreement through 2055 for the repayment of the private debt incurred by the developer during construction. In the event the agreement with the developer is terminated, the outstanding portion of the private debt incurred by the developer for construction phase will become an obligation of the University.

The University's General Revenue Bond ratings are currently affirmed at Aa2, AA and AA by Moody's Investors Service, Standard & Poor's and Fitch, respectively, all with stable outlooks. The University's Limited Project Revenue Bonds and Medical Center Pooled Revenue Bonds are currently affirmed at Aa3, AA- and AA- by Moody's Investors Service, Standard & Poor's and Fitch, respectively, all with stable outlooks.

Commercial paper borrowings decreased \$30.9 million in 2018 as compared to 2017, and decreased by \$225.2 million in 2017 compared to 2016. Commercial paper is primarily used as interim financing for construction projects and short-term financing for other needs. Commercial paper fluctuates based upon the timing of refinancing construction projects with the issuance of long-term revenue bonds. The University has various revolving credit agreements totaling \$1.1 billion with major financial institutions for the purpose of providing additional liquidity for certain variable-rate demand bonds, commercial paper and for other liquidity needs.

Securities lending collateral

Under the securities lending program, the University records a liability to the borrower for cash collateral received and held by the University for securities on loan at the end of the year. All borrowers are required to provide additional collateral by the next business day if the value of the collateral falls to less than 100 percent of the fair value of the securities lent. The amount of the securities lending collateral liability fluctuates directly with securities lending opportunities and the investment of cash collateral.

Net pension liability and retiree health benefits

The University has a financial responsibility for pension benefits associated with its defined benefit plans and for retiree health benefits. The University's net pension liability was \$9.8 billion, \$10.7 billion and \$15.1 billion in 2018, 2017 and 2016, respectively. The changes in net pension liability for 2018 and 2017 were primarily driven by higher than expected investment returns on the UCRP investment portfolio. UCRP's total investment rate of return was positive 7.8 percent in 2018, positive 14.5 percent in 2017 and negative 2.0 percent in 2016. The discount rate used to estimate the net pension liability was 7.25 percent in 2018, 2017 and 2016.

LBNL participates in the University's defined benefit pension plan, although the DOE has an ongoing financial responsibility to reimburse the University for LBNL's share of the obligation to UCRP. In addition, under certain circumstances, the University makes contributions to UCRP for LANL and LLNL retirees and, based upon contractual arrangements with the DOE, is reimbursed by the DOE. The University recorded receivables from the DOE of \$316.7 million, \$615.1 million and \$974.7 million for 2018, 2017 and 2016, respectively, representing the DOE's share of the net pension liability.

The University's net retiree health benefits liability was \$18.9 billion, \$19.3 billion and \$21.8 billion, in 2018, 2017 and 2016, respectively.

The University funds the retiree health benefits through UCRHBT based on a projection of benefits on a pay-as-you-go basis and the assets in the trust are not sufficient to fund retiree health benefits. Therefore, the Bond Buyer 20-year tax-exempt general obligations municipal-bond index rate is used to discount the retiree health benefits liabilities. The changes in net retiree health benefits liability have been primarily driven by the changes in discount rates used to estimate the retiree health benefits liability. The discount rates as of June 30, 2018, 2017 and 2016 were 3.87 percent, 3.58 percent and 2.85 percent, respectively. Additionally, health care cost increases in 2018 were lower than expected.

LBNL participates in the University's retiree health benefits plans and, based on contractual arrangements with the DOE, the University is reimbursed for retiree health benefits costs associated with retirees who previously worked at LBNL. The University recorded receivables from the DOE of \$656.9 million, \$642.8 million and \$621.1 million for 2018, 2017 and 2016, respectively, representing the DOE's share of the net retiree health benefits liability.

Other liabilities

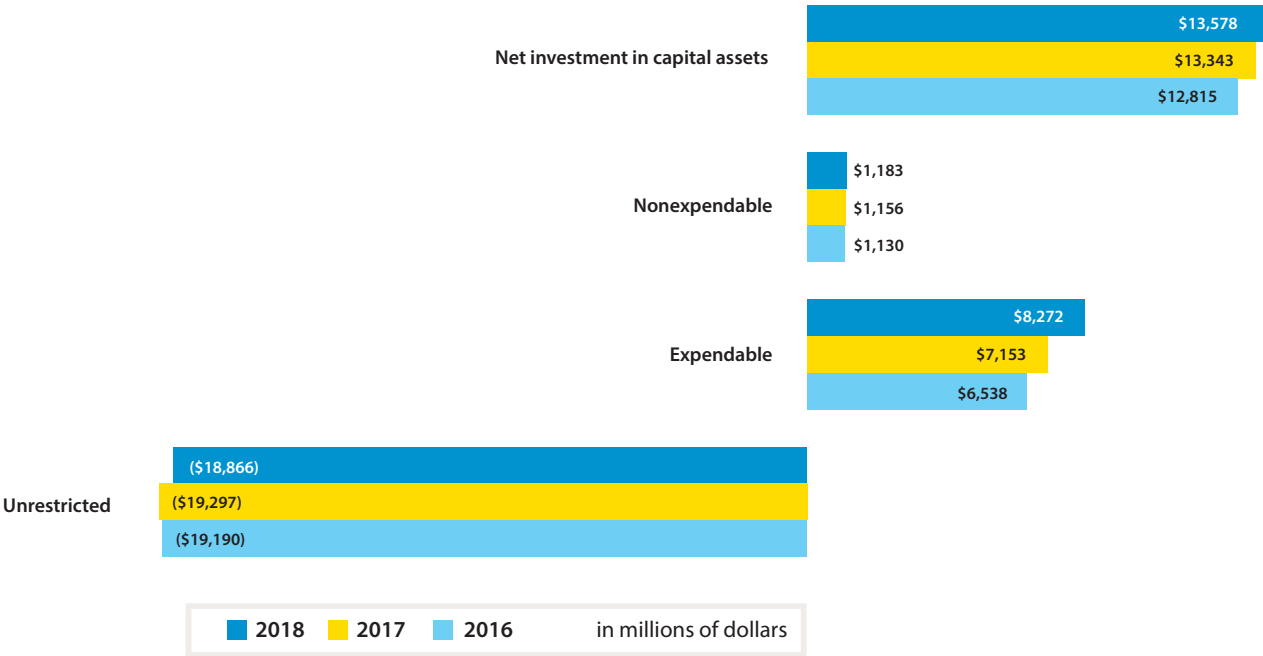
Other liabilities consist of accounts payable, accrued salaries, other employee benefits, unearned revenue, funds held for others, DOE laboratories' liabilities, federal refundable loans, self-insurance liabilities and obligations under split-interest agreements held by the University.

Deferred inflows of resources

Deferred inflows of resources are related to the University's service concession arrangements, gains on debt refundings, sales of certain future patent royalty revenues, changes in the estimated future value of irrevocable split-interest agreements and certain changes in the net pension and net retiree health benefits liabilities. Deferred inflows of resources increased in 2018 and 2017 primarily due to the decrease in the discount rate for estimating the net retiree health benefits liability.

The University's Net Position

Net position represents the residual interest in the University's assets and deferred outflows after all liabilities and deferred inflows are deducted. Net position was restated for 2017 and 2016 as a result of adopting new accounting rules for split-interest agreements. The University's net position was \$4.2 billion in 2018 compared to \$2.4 billion in 2017 and \$1.3 billion in 2016. Net position is reported in the following categories: net investment in capital assets; restricted, nonexpendable; restricted, expendable; and unrestricted.



Net investment in capital assets

The portion of net position invested in capital assets, net of accumulated depreciation and the related outstanding debt used to finance the acquisition, construction or improvement of these capital assets, was \$13.6 billion in 2018 compared to \$13.3 billion in 2017 and \$12.8 billion in 2016. The University continues to invest in its physical facilities, which are, in part, financed by debt, to support growth.

Restricted, nonexpendable

Restricted, nonexpendable net position includes the corpus of the University's permanent endowments. In 2018 and 2017, the increase in restricted nonexpendable net position was principally due to the receipt of new gifts.

Restricted, expendable

Restricted, expendable net position is subject to externally imposed restrictions governing their use. Net position may be spent only in accordance with the restrictions placed upon them and may include endowment income and gains, subject to the University's spending policy; support received from gifts, appropriations or capital projects and trustee-held investments. The increases or decreases in restricted, expendable funds are principally due to the timing of spending restricted gifts and endowment income and gains.

Unrestricted

Under generally accepted accounting principles, net position that is not subject to externally imposed restrictions governing their use must be classified as unrestricted for financial reporting purposes. Unrestricted net position is negative due primarily to obligations for pension and retiree health benefits exceeding University assets available to pay such obligations. Although unrestricted net position is not subject to externally imposed restrictions, substantially all of the University's reserves are allocated for academic and research initiatives or programs, for capital projects or other purposes.

THE UNIVERSITY'S RESULTS OF OPERATIONS

The statement of revenues, expenses and changes in net position is a presentation of the University's operating results and indicates whether the financial condition has improved or deteriorated. In accordance with the Governmental Accounting Standards Board (GASB) requirements, certain significant revenues relied upon and budgeted for fundamental operational support of the core instructional mission of the University are required to be recorded as nonoperating revenues, including state educational appropriations, private gifts and investment income. Results of operations for 2017 and 2016 have been restated as a result of adopting new accounting policies for irrevocable split-interest agreements. A summarized comparison of the operating results for 2018, 2017 and 2016, arranged in a format that matches the revenue supporting the core activities of the University with the expenses associated with core activities, is as follows:

(in millions of dollars)

	2018			2017			2016		
	OPERATING	NONOPERATING	TOTAL	OPERATING	NONOPERATING	TOTAL	OPERATING	NONOPERATING	TOTAL
REVENUES									
Student tuition and fees, net	\$4,839		\$4,839	\$4,477		\$4,477	\$4,132		\$4,132
State educational appropriations		\$3,386	3,386		\$3,278	3,278		\$3,048	3,048
Federal Pell Grants		422	422		382	382		376	376
Grants and contracts, net	5,709		5,709	5,441		5,441	5,273		5,273
Medical centers, net	12,065	22	12,087	11,241	13	11,254	10,236	15	10,251
Educational activities, net	3,670		3,670	3,333		3,333	2,973		2,973
Auxiliary enterprises, net	1,685		1,685	1,579		1,579	1,430		1,430
Department of Energy laboratories	1,062		1,062	1,147		1,147	1,278		1,278
Private gifts, net		1,315	1,315		1,162	1,162		1,088	1,088
Investment income, net		413	413		299	299		311	311
Other revenues	971	128	1,099	939	68	1,007	962	51	1,013
Revenues supporting core activities	30,001	5,686	35,687	28,157	5,202	33,359	26,284	4,889	31,173
EXPENSES									
Salaries and wages	15,953		15,953	15,160		15,160	14,021		14,021
Pension benefits	1,339		1,339	1,888		1,888	2,687		2,687
Retiree health benefits	1,295		1,295	1,576		1,576	1,875		1,875
Other employee benefits	3,246		3,246	2,938		2,938	2,838		2,838
Scholarships and fellowships	767		767	729		729	652		652
Utilities	304		304	292		292	283		283
Supplies and materials	3,610		3,610	3,240		3,240	3,109		3,109
Depreciation and amortization	2,027		2,027	1,910		1,910	1,804		1,804
Department of Energy laboratories	1,055		1,055	1,139		1,139	1,271		1,271
Interest expense		746	746		721	721		693	693
Other expenses	4,851		4,851	4,648	60	4,708	4,411	47	4,458
Expenses associated with core activities	34,447	746	35,193	33,520	781	34,301	32,951	740	33,691
Income (loss) from core activities	(\$4,446)	\$4,940	\$494	(\$5,363)	\$4,421	(\$942)	(\$6,667)	\$4,149	(\$2,518)
OTHER NONOPERATING ACTIVITIES									
Net appreciation (depreciation) in fair value of investments			890			1,722			(472)
Income (loss) before other changes in net position			1,384			780			(2,990)
OTHER CHANGES IN NET POSITION									
State capital appropriations						2			4
Capital gifts and grants, net			403			256			249
Permanent endowments			25			24			34
Increase (decrease) in net position			1,812			1,062			(2,703)
NET POSITION									
Beginning of year, as previously reported			2,355			1,293			4,022
Cumulative effect of accounting changes									(26)
Beginning of year, restated			2,355			1,293			3,996
End of year			\$4,167			\$2,355			\$1,293

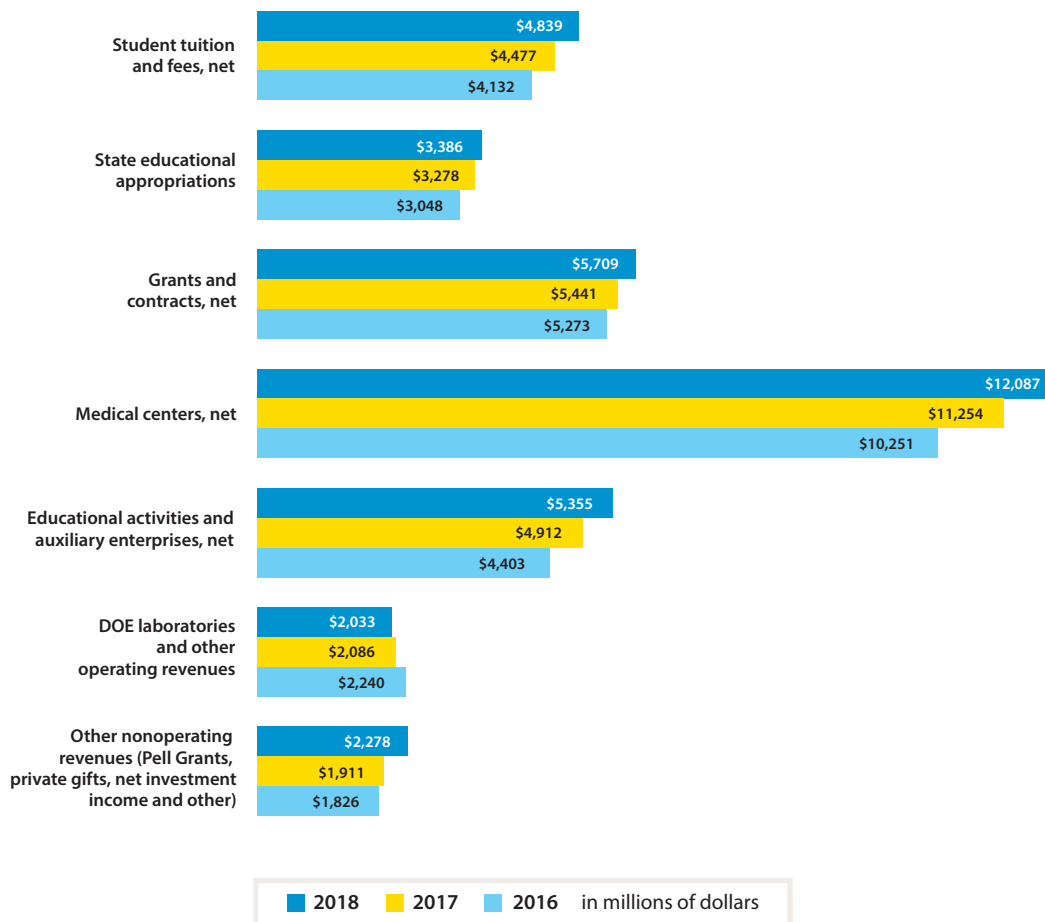
Revenues supporting core activities

Revenues to support the University's core activities, including those classified as nonoperating revenues, were \$35.7 billion, \$33.4 billion and \$31.2 billion in 2018, 2017 and 2016, respectively. These diversified sources of revenue increased by \$2.3 billion in 2018 and \$2.2 billion in 2017.

The state of California's educational appropriations, in conjunction with student tuition and fees, are the core components that support the instructional mission of the University. Grants and contracts provide opportunities for undergraduate and graduate students to participate in basic research alongside some of the most prominent researchers in the country.

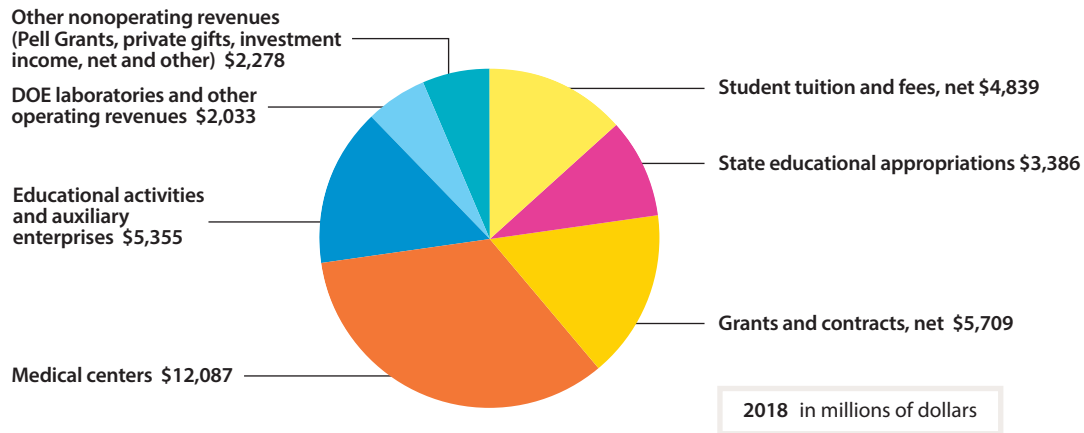
Gifts to the University allow crucial flexibility to faculty for support of their fundamental activities or new academic initiatives. Other significant revenues are from medical centers, educational activities and auxiliary enterprises such as student housing, food service operations and parking.

Revenues in the various categories have changed as follows:



A major financial strength of the University is its diverse source of revenues, including those from student fees, federally sponsored grants and contracts, medical centers, the state of California, private support and self-supporting enterprises. The variety of fund sources has become increasingly important over the past several years.

Categories of both operating and nonoperating revenue that supported the University's core activities in 2018 are as follows:



Student tuition and fees, net

Net student tuition and fees were \$4.8 billion, \$4.5 billion and \$4.1 billion in 2018, 2017 and 2016, respectively. Scholarship allowances, or financial aid, are the difference between the stated charge for tuition and fees and the amount that is paid by the student and third parties on behalf of the student. Scholarship allowances, netted against student tuition and fees, were \$1.3 billion, \$1.1 billion and \$1.1 billion in 2018, 2017 and 2016, respectively. Student tuition and fees, net of scholarship allowances, increased by \$361.6 million and \$344.9 million in 2018 and 2017, respectively, due to enrollment growth.

In 2018, enrollment grew by 3.3 percent and in 2017 enrollment grew by 4.9 percent. Mandatory tuition for resident undergraduates increased 2.5 percent in 2018 and did not change in 2017. Certain nonresident undergraduates and resident and nonresident graduate students experienced increases in mandatory tuition and fees. Professional degree supplemental tuition varies by discipline; certain increases were approved for 2018 and 2017.

State educational appropriations

Educational appropriations from the state of California were \$3.4 billion, \$3.3 billion and \$3.0 billion in 2018, 2017 and 2016, respectively. State educational appropriations increased in 2018 and 2017 by \$108.3 million and \$229.4 million, respectively.

The budget framework agreed to with the governor in 2016 provided the University with base budget adjustments of four percent annually for 2016 through 2019. Additionally, the University also received \$169.0 million, \$171.0 million and \$96.0 million in 2018, 2017 and 2016, respectively, in one-time funds for UCRP. The final budget approved for 2019 included a base budget adjustment of three percent and \$248.8 million in one-time funds.

Grants and contracts, net

Revenue from federal, state, private and local government grants and contracts — including an overall facilities and administration cost recovery of \$1.1 billion, \$1.1 billion and \$1.0 billion in 2018, 2017 and 2016, respectively — were \$5.7 billion, \$5.4 billion and \$5.3 billion in 2018, 2017 and 2016, respectively.

In 2018, federal grants and contracts revenue increased \$43.0 million, or 1.3%, as compared to 2017. In 2017, federal grants and contracts revenue increased \$14.0 million, or 0.4%, as compared to 2016. Federal grants and contracts include federal facilities and administrative cost recovery of \$782.0 million, \$764.0 million and \$745.6 million in 2018, 2017 and 2016, respectively. Changes in the federal budget impact the University's growth in federal grants and contracts. Grants and contracts revenue is from a variety of federal agencies as indicated below:

(in millions of dollars)

	2018	2017	2016
Department of Health and Human Services	\$2,035	\$1,987	\$1,917
National Science Foundation	464	465	469
Department of Education	78	57	83
Department of Defense	261	275	258
National Aeronautics and Space Administration	86	95	135
Department of Energy (excluding national laboratories)	108	107	104
Other federal agencies	270	273	279
Federal grants and contracts net revenue	\$3,302	\$3,259	\$3,245

Medical centers, net

Medical center revenues, net of allowances, increased \$0.8 billion, or 7.4 percent, in 2018 and increased \$1.0 billion, or 9.8 percent, in 2017. Revenues increased in 2018 due to a full year of operations for the new UCSD Jacobs Medical Center which opened in November 2016. Additionally, revenues increased in 2018 due to higher inpatient and outpatient utilization and supplemental revenues. Revenues increased in 2017 due to the opening of the Jacobs Medical Center mid-year, and higher supplemental revenues and utilization.

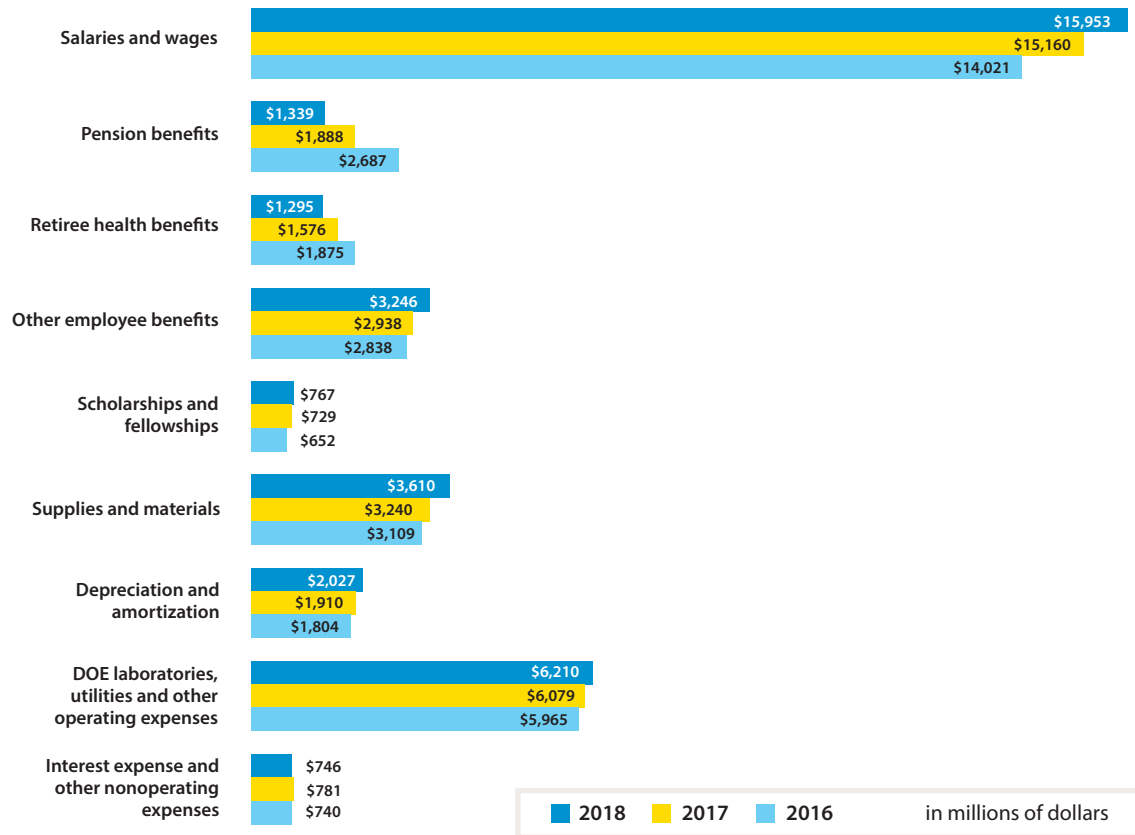
Educational activities and auxiliary enterprises, net

Revenue from educational activities, primarily medical professional fees, net of allowances, grew by \$337.9 million, or 10.1 percent, in 2018 and \$359.8 million, or 12.1 percent, in 2017. The growth is generally associated with an expanded patient base and improved collections.

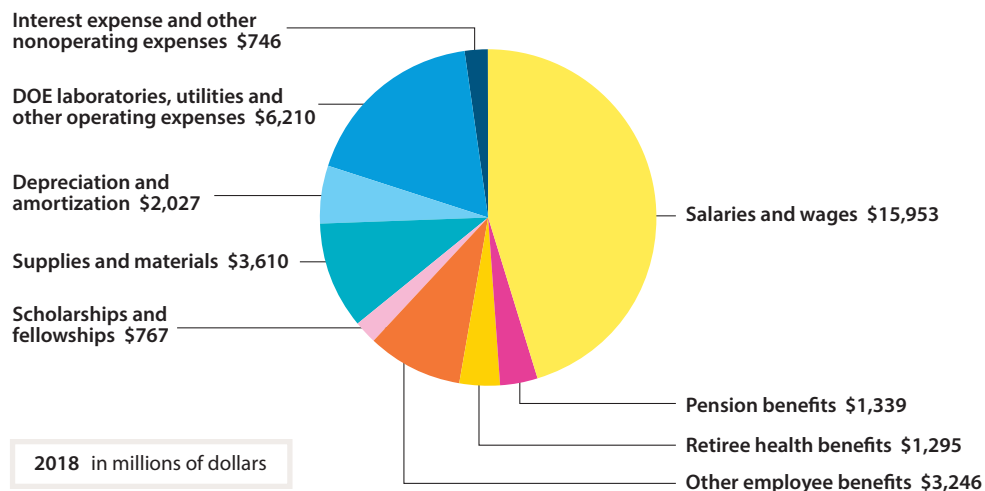
Auxiliary enterprises include housing, food service, parking, bookstores, student centers, unions and child care centers. Revenue from auxiliary enterprises, net of allowances, grew by \$105.6 million, or 6.7 percent, in 2018 and \$149.2 million, or 10.4 percent in 2017. Auxiliary revenues increased consistent with enrollment and the University's initiative to expand the supply of campus housing for students.

Expenses associated with core activities

Expenses associated with the University's core activities, including those classified as nonoperating expenses, were \$35.2 billion, \$34.3 billion and \$33.7 billion in 2018, 2017 and 2016, respectively. Expenses increased in 2018 by \$0.9 billion and in 2017 by \$0.6 billion, primarily due to growth in the University's operations, principally at the medical centers. Pension expenses decreased in 2018 and 2017 as a result of higher actual investment returns as compared to expected earnings on the UCRP portfolio. Retiree health benefits expenses also decreased in 2018 and 2017 as a result of increases in the discount rate used to estimate the retiree health liabilities. Expenses in the various categories are as follows:



Categories of both operating and nonoperating expenses related to the University's core activities in 2018 are as follows:



Salaries and benefits

Approximately 62.1 percent of the University's expenses were related to salaries and benefits. There were 158,900 full-time equivalent (FTE) employees in 2018, excluding employees who were associated with LBNL, whose salaries and benefits were included as laboratory expenses, as compared to 154,500 FTEs in 2017.

Salaries and benefits increased by 1.3 percent in 2018. In 2018, salaries increased by 5.2 percent, 2.8 percent due to an increase in the number of FTEs and 2.3 percent due to an increase in the average salary per FTE. Employee benefits, excluding pension and post-retirement health care benefits, increased by \$307.8 million, or 10.5 percent, in 2018 due to higher health insurance costs. Pension expense decreased by \$548.1 million, or 29.0 percent, due to better than expected investment returns. Retiree health expense decreased by \$280.8 million or 17.8 percent due to the higher discount rate in 2018.

Salaries and benefits increased by 0.7 percent in 2017. In 2017, salaries increased by 8.1 percent, 3.5 percent due to an increase in the number of FTEs and 4.5 percent due to an increase in the average salary per FTE. Employee benefits, excluding pension and post-retirement health care benefits, increased by \$100.5 million, or 3.5 percent in 2017, due to higher health insurance costs. Pension expense decreased by \$0.8 billion or 29.7 percent due to better than expected investment returns. Retiree health expense decreased by \$298.8 million or 15.9 percent due to the higher discount rate in 2017.

Scholarships and fellowships

The University places a high priority on student financial aid as part of its commitment to affordability. Scholarship allowances, representing financial aid and fee waivers awarded by the University, were \$2.3 billion, \$2.1 billion and \$2.0 billion in 2018, 2017 and 2016, respectively. Scholarships and fellowships, representing payments of financial aid made directly to students and reported as an operating expense were \$766.9 million, \$728.6 million and \$651.6 million in 2018, 2017 and 2016, respectively. On a combined basis, as the University continues its commitment to provide financial support for needy students, financial aid in all forms increased by \$180.8 million, or 8.7 percent, in 2018 as compared to 2017, and by \$55.7 million, or 2.8 percent, in 2017 compared to 2016.

Supplies and materials

During 2018 and 2017, supplies and materials costs increased by \$370.6 million, or 11.4 percent and \$130.7 million, or 4.2 percent, respectively. The largest increases occurred at the medical centers due to higher patient volumes. In recent years, there has been inflationary pressure on the costs for medical supplies and laboratory instruments and higher costs for general supplies necessary to support expanded medical patient volumes. The University continues to find opportunities to manage the costs of supplies and materials.

Other expenses

Other expenses consist of a variety of expense categories, including travel, rent, insurance, legal settlements and repairs and maintenance, plus any gain or loss on disposals of capital assets and other nonoperating expenses.

Operating losses

In accordance with the GASB's reporting standards, operating losses were \$4.4 billion, \$5.4 billion and \$6.7 billion in 2018, 2017 and 2016, respectively. The operating losses in 2018, 2017 and 2016 were offset by \$4.9 billion, \$4.4 billion and \$4.1 billion, respectively, of net nonoperating revenue that supports core operating activities of the University. Revenues exceeded expenses associated with core activities in 2018 by \$494.4 million. In 2017 and 2016, expenses exceeded revenue available to support core activities by \$0.9 billion and \$2.5 billion, respectively.

Other nonoperating activities

The University's other nonoperating activities, consisting of net appreciation or depreciation in the fair value of investments, are noncash transactions and, therefore, are not available to support operating expenses. In 2018, 2017 and 2016, the University recognized net appreciation in the fair value of investments of \$0.9 billion, net appreciation of \$1.7 billion and net depreciation of \$471.7 million, respectively. The University's portfolio experienced positive returns in the equity markets in 2018 and 2017, as compared with negative returns in 2016.

Other changes in net position

Similar to other nonoperating activities discussed above, other changes in net position are also not available to support the University's operating expenses in the current year. State capital appropriations and capital gifts and grants may only be used for the purchase or construction of the specified capital assets. Only income earned from gifts of permanent endowments is available in future years to support the specified program.

THE UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS

Separate foundations at each individual campus provide valuable assistance in fundraising, public outreach and other support for the missions of the campus and the University. Although independent boards govern each of the foundations, they are affiliated with, and their assets are dedicated for, the benefit of the University of California. The Foundations implemented new accounting policies for irrevocable split-interest agreements. These changes in accounting policies provide recognition and measurement guidance for agreements in which the Foundations are a beneficiary.

The Campus Foundations' Financial Position

The campus foundations' statement of net position presents their combined financial position at the end of the year. It displays all of the campus foundations' assets, liabilities, deferred inflows and net position. The difference between assets, liabilities and deferred inflows is net position, representing a measure of the current financial condition of the campus foundation.

The major components of the combined assets, liabilities and net position of the campus foundations at June 30, 2018, 2017 and 2016 are as follows:

<i>(in millions of dollars)</i>			
	2018	2017	2016
ASSETS			
Investments	\$9,240	\$8,207	\$7,115
Investment of cash collateral	45	43	42
Accounts receivable, net	13	40	33
Pledges receivable, net	1,006	866	842
Other assets	567	348	285
Total assets	10,871	9,504	8,317
LIABILITIES			
Accounts payable and other current liabilities	52	113	71
Securities lending collateral	45	43	42
Obligation under life income agreements and funds held for others	467	420	382
Other noncurrent liabilities	272	253	220
Total liabilities	836	829	715
DEFERRED INFLOWS OF RESOURCES	232	209	187
NET POSITION			
Restricted:			
Nonexpendable	4,407	3,968	3,631
Expendable	4,966	4,305	3,689
Unrestricted	430	193	95
Total net position	\$9,803	\$8,466	\$7,415

Investments increased in 2018 and 2017 due to the performance of the financial markets. The Board of Trustees for each campus foundation is responsible for its specific investment policy, although asset allocation guidelines are recommended to campus foundations by the Investments Subcommittee of The Regents. The Boards of Trustees may determine that all or a portion of their investments will be managed by the University's Chief Investment Officer. The Chief Investment Officer managed \$2.6 billion, \$2.2 billion and \$1.6 billion of the campus foundations' investments at the end of 2018, 2017 and 2016, respectively.

Restricted, nonexpendable net position includes the corpus of the campus foundations' permanent endowments. Restricted, expendable net position is subject to externally imposed restrictions governing their use. Net position represents the residual interest in the assets after all liabilities and deferred inflows are deducted. It is only available in accordance with the restrictions placed upon them and may include endowment income and investment gains, subject to each individual campus foundation's spending policy; support received from gifts; trustee-held investments; or other third-party receipts. New gifts, net of gifts transferred to campuses, and changes in the fair value of investments were the primary reasons for the changes in net position in 2018 and 2017.

The Campus Foundations' Results of Operations

The campus foundations' combined statement of revenues, expenses and changes in net position is a presentation of their operating results for the year. It indicates whether their financial condition has improved or deteriorated during the year.

A summarized comparison of the operating results for 2018, 2017 and 2016 is as follows:

(in millions of dollars)

	2018	2017	2016
OPERATING REVENUES			
Private gifts and other revenues	\$1,341	\$868	\$801
Total operating revenues	1,341	868	801
OPERATING EXPENSES			
Grants to campuses and other expenses	1,136	970	915
Total operating expenses	1,136	970	915
Operating income (loss)	205	(102)	(114)
NONOPERATING REVENUES (EXPENSES)			
Investment income	77	74	53
Net appreciation (depreciation) in fair value of investments	646	792	(229)
Other nonoperating revenues			4
Income (loss) before other changes in net position	928	764	(286)
OTHER CHANGES IN NET POSITION			
Permanent endowments	409	287	282
Increase (decrease) in net position	1,337	1,051	(4)
NET POSITION			
Beginning of year, as previously reported	8,466	7,415	7,552
Cumulative effect of accounting change			(133)
Beginning of year, as restated	8,466	7,415	7,419
End of year	\$9,803	\$8,466	\$7,415

Operating expenses generally consist of grants to University campuses. Grants to the campuses include current-use donor gifts, the annual income distributions on endowments and gift fees. Grants to campuses typically follow the pattern indicated by private gift revenue; however, the campuses' programmatic needs are also taken into consideration, subject to abiding by the restricted purposes specified by the donor for the use of gifts and endowment income.

Since gifts are transferred only when the cash is received and investment income is classified as nonoperating income, operating losses can occur when grants distributed to the campuses exceed private gift revenue.

THE UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM (UCRS)

UCRS is a valuable component of the comprehensive benefits package offered to employees of the University. UCRS consists of two defined benefit plans and four defined contribution plans. The defined benefit plans (Defined Benefit Plans) include the University of California Retirement Plan (UCRP) for members and the California Public Employees Retirement System (PERS) Voluntary Early Retirement Incentive Plan (UC-VERIP) for certain University employees that were members of PERS who elected early retirement. The University of California Retirement Savings Program (UCRSP) includes four defined contribution plans (Defined Contribution Plan, Supplemental Defined Contribution Plan, 403(b) Plan and 457(b) Plan), with several investment portfolio options for participants' elective and non-elective contributions.

UCRS' Financial Position and Result of Operations

The statement of plans' fiduciary net position presents the financial position of UCRS at the end of the fiscal year. It displays all of the retirement system's assets, liabilities and net position. The difference between assets and liabilities is the net position held in trust for pension benefits. These represent amounts available to provide pension benefits to members of UCRP and participants in the defined contribution plans and UC-VERIP. At June 30, 2018, UCRS' assets were \$99.1 billion, liabilities were \$7.9 billion and net position held in trust for pension benefits were \$91.2 billion, an increase of \$6.6 billion from 2017. At June 30, 2017, UCRS' assets were \$94.0 billion, liabilities were \$9.3 billion and net position held in trust for pension benefits were \$84.7 billion, an increase of \$10.1 billion from 2016.

The major components of the assets, liabilities and net position available for pension benefits for 2018, 2017 and 2016 are as follows:

(in millions of dollars)

	2018	2017	2016
ASSETS			
Investments	\$90,873	\$82,574	\$73,197
Participants' interests in mutual funds	1,585	3,351	2,768
Investment of cash collateral	6,158	6,842	6,751
Other assets	465	1,203	571
Total assets	99,081	93,970	83,287
LIABILITIES			
Securities lending collateral	6,157	6,838	6,750
Other liabilities	1,699	2,470	1,955
Total liabilities	7,856	9,308	8,705
NET POSITION HELD IN TRUST FOR PENSION BENEFITS			
Members' defined benefit plan benefits	66,839	62,179	54,225
Participants' defined contribution plan benefits	24,386	22,483	20,357
Total net position held in trust for pension benefits	\$91,225	\$84,662	\$74,582

The statements of changes in the plans' fiduciary net position are a presentation of UCRS' operating results. The statements indicate whether the financial condition has improved or deteriorated during the year. A summarized comparison of the operating results for 2018, 2017 and 2016 is as follows:

(in millions of dollars)

	2018	2017	2016
ADDITIONS			
Contributions	\$4,760	\$4,779	\$4,551
Net appreciation (depreciation) in fair value of investments	5,099	8,617	(2,300)
Investment and other income, net	1,556	1,437	1,318
Total additions	11,415	14,833	3,569
DEDUCTIONS			
Benefit payments and participant withdrawals	4,812	4,700	4,342
Plan expenses	40	53	59
Total deductions	4,852	4,753	4,401
Increase (decrease) in net position held in trust for pension benefits	\$6,563	\$10,080	(\$832)

The Regents' asset allocation strategies are intended to generate investment returns over time in accordance with investment objectives and at acceptable levels of risk. The overall investment return for UCRP was positive 7.8 percent in 2018 as compared to positive 14.5 percent in 2017 and negative 2.0 percent in 2016.

The participants' interests in mutual funds, representing defined contribution plan contributions to certain mutual funds on a custodial plan basis, fluctuate based upon market performance of the mutual funds and participant investment elections.

UCRS participates in the University's securities lending program as a means to augment income. All borrowers are required to provide collateral and the University records a liability to the borrower for cash collateral received and held by the University for securities on loan at the end of the year. Investments in cash collateral and the securities lending collateral liability fluctuate in response to changes in demand from borrowers and the availability of securities based upon the UCRS asset allocation mix.

Contributions to UCRP were \$3.4 billion in 2018, 2017 and 2016. In 2018, 2017 and 2016, contributions include \$169.0 million, \$171.0 million and \$96.0 million, respectively, received from the state of California under the budget agreement. Contributions include additional deposits of \$391.8 million, \$481.0 million and \$563.5 million made by the University to UCRP in 2018, 2017 and 2016, respectively. University contribution rates to UCRP were 14.0 percent of covered payroll in 2018, 2017 and 2016. Employee contribution rates ranged between 7.0 percent and 9.0 percent in 2018, 2017 and 2016.

Benefit payments and participant withdrawals were \$112.2 million more in 2018 than in 2017 and \$358.2 million more in 2017 than in 2016. Payments from UCRP increase each year due to a growing number of retirees receiving payments and cost-of-living adjustments (COLAs). Benefit payments from UCRSP fluctuate based upon member withdrawals. Participant withdrawals decreased by \$154.2 million, or 11.2 percent, in 2018 as compared to 2017, and \$143.0 million, or 11.6 percent, in 2017 as compared to 2016. As of

June 30, 2018, there were 75,900 retirees and beneficiaries receiving payments from UCRS as compared to 73,000 as of June 30, 2017 and 70,000 as of June 30, 2016.

The net pension liability for UCRP was \$9.8 billion in 2018, \$10.7 billion in 2017 and \$15.1 billion in 2016. The decrease in net pension liability for 2018 of \$0.9 billion and in 2017 of \$4.4 billion was due to higher than expected investment returns on the UCRP portfolio. The ratio of plan net position to total pension liability was 87.2 percent in 2018, 85.3 percent in 2017 and 78.2 percent in 2016.

Additional information on the retirement plans can be obtained from the 2018 annual reports of the University of California Retirement System by writing to the University of California, Office of the President, Human Resources and Benefits, Post Office Box 24570, Oakland, California 94623.

THE UNIVERSITY OF CALIFORNIA RETIREE HEALTH BENEFIT TRUST (UCRHBT)

The UCRHBT was established on July 1, 2007 to allow certain University locations — primarily campuses and medical centers — that share the risks, rewards and costs of providing for retiree health benefits the opportunity to fund such benefits on a cost-sharing basis and accumulate funds under an arrangement segregated from University assets. The University contributes toward retiree medical and dental benefits, although it does not contribute toward the cost of other benefits available to retirees. The DOE laboratories do not participate in the UCRHBT, therefore the DOE has no interest in the trust's assets.

UCRHBT's Financial Position and Result of Operations

The statement of trust's fiduciary net position presents the financial position of the UCRHBT at the end of the fiscal year. It displays the UCRHBT's assets, liabilities and net position. The difference between assets and liabilities is the net position held in trust for retiree health benefits. This represents amounts available to provide retiree health benefits to participants.

The major components of the assets, liabilities and net position available for retiree health benefits for 2018, 2017 and 2016 are as follows:

(in millions of dollars)

	2018	2017	2016
ASSETS			
Investments	\$128	\$98	\$54
Other assets	24	26	34
Total assets	152	124	88
LIABILITIES			
Total liabilities	18	17	15
NET POSITION HELD IN TRUST FOR RETIREE HEALTH BENEFITS			
Total net position held in trust for retiree health benefits	\$134	\$107	\$73

The statement of changes in the trust's fiduciary net position is a presentation of the UCRHBT's operating results and indicates whether the financial condition has improved or deteriorated during the year. Summarized operating results for 2018, 2017 and 2016 are as follows:

(in millions of dollars)

	2018	2017	2016
ADDITIONS			
Contributions	\$340	\$328	\$310
Total additions	340	328	310
DEDUCTIONS			
Insurance premiums and payments	309	290	284
Plan expenses	4	4	4
Total deductions	313	294	288
Increase in net position held in trust for retiree health benefits	\$27	\$34	\$22

Contributions for retiree health benefits are made by the campuses and medical centers based upon projected pay-as-you-go financing. The University acts as a third-party administrative agent on behalf of the UCRHBT to pay health care insurers and administrators amounts currently due.

The retiree health benefits provided under the University's plan and any liabilities related to the future funding requirements for the retiree health benefits are reported by the University. The net retiree health liability for UCRHBT was \$18.3 billion, \$18.7 billion and \$21.1 billion in 2018, 2017 and 2016, respectively.

LOOKING FORWARD

The University of California is a world center of learning, known for generating a steady stream of talent, knowledge and social benefits, and has always been at the center of California's capacity to innovate. The excellence of its programs attracts the best students, leverages hundreds of millions of dollars in state, federal and private funding and promotes discovery of new knowledge that fuels economic growth.

The budget framework agreed to with the governor in 2016 provided the University with base budget adjustments of four percent annually from 2016 through 2019. The final budget approved for 2019 included a base budget adjustment of three percent and \$248.8 million in one-time funds. The framework also called for no tuition increases in 2016 and 2017, with tuition increases generally pegged to the rate of inflation beginning in 2018. The Student Services Fee increased five percent in 2016 and each year thereafter with the customary one-third of the increase being directed to financial aid. Fifty percent of the remaining revenue generated from the increase will be used to enhance student mental health services and the remaining 50.0 percent will be distributed to support other student services programs. The framework also acknowledged the University's plan for moderate increases in nonresident supplemental tuition. The framework also called for no increases in law school tuition through 2019. In addition to these funding elements, the budget framework included a number of performance-related provisions.

The University remains highly competitive in attracting federal grants and contracts revenue, with fluctuations in the awards received closely paralleling trends in the budgets of federal research granting agencies. Over two-thirds of the University's federal research revenue comes from two agencies, the Department of Health and Human Services, primarily through the National Institutes of Health, and the National Science Foundation. Other agencies that figure prominently in the University's awards are the Department of Education, Department of Defense, the National Aeronautics and Space Administration and the Department of Energy. The University is a unique national resource for helping the nation address competitiveness and economic initiatives.

The University's medical centers have positive operating margins, although they continue to face financial and competitive challenges in their regional markets, along with the added costs and responsibilities related to their function as academic institutions. The demand for health care services and the cost of providing them continue to increase significantly. In addition to the rising costs of salaries, benefits and medical supplies faced by hospitals across the state, along with the costs of maintaining and upgrading facilities, the University's medical centers also face additional costs associated with seismic retrofitting, new technologies, biomedical research, the education and training of health care professionals and the care for a disproportionate share of the medically underserved in California. Other than Medicare and Medi-Cal (California's Medicaid program), health insurance payments do not recognize the added cost of teaching in their payment to academic medical centers. The growth in costs of the publicly funded programs and health care reform will likely continue to reduce rates or limit payment growth, placing downward pressure on operating results for the medical centers.

The University must have a balanced array of many categories of facilities to meet its education, research and public service goals and continues to assess its long-term capital requirements. Support for the University's capital program is expected to be provided from a combination of sources, including the state of California, external financing, gifts and other sources.

Additional budget information can be found at <http://universityofcalifornia.edu/news/budget/welcome.html>. Additional information concerning state budget matters and the state's financial condition may be found on the website of the California Department of Finance at <http://www.dof.ca.gov>.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

Certain information provided by the University, including written as outlined above or oral statements made by its representatives, may contain forward-looking statements as defined in the Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical facts, which address activities, events or developments that the University expects or anticipates will or may occur in the future contain forward-looking information.

In reviewing such information, it should be kept in mind that actual results may differ materially from those projected or suggested in such forward-looking information. This forward-looking information is based upon various factors and was derived using various assumptions. The University does not undertake to update forward-looking information contained in this report or elsewhere to reflect actual results, changes in assumptions or changes in other factors affecting such forward-looking information.

STATEMENTS OF NET POSITION

	UNIVERSITY OF CALIFORNIA		CAMPUS FOUNDATIONS	
	2018	2017	2018	2017
<i>At June 30, 2018 and 2017 (in thousands of dollars)</i>				
ASSETS				
Cash and cash equivalents	\$249,523	\$203,370	\$447,377	\$254,100
Short-term investments	4,890,075	6,249,657	857,844	674,868
Investment of cash collateral	1,054,406	947,353	40,999	37,357
Investments held by trustees	26,803	32,516		
Accounts receivable, net	4,061,888	3,946,891	13,102	40,012
Pledges receivable, net	25,049	23,181	234,294	192,484
Current portion of notes and mortgages receivable, net	68,482	50,137	181	6
Inventories	244,706	226,995		
Department of Energy receivable	133,472	123,896		
Other current assets	400,030	338,041	4,622	4,748
Current assets	11,154,434	12,142,037	1,598,419	1,203,575
Investments	22,478,922	18,228,705	8,381,736	7,532,122
Investment of cash collateral	110,301	132,476	4,289	5,224
Investments held by trustees	388,361	66,509		
Pledges receivable, net	32,690	33,031	771,889	673,495
Notes and mortgages receivable, net	386,342	314,018	250	427
Department of Energy receivable	973,652	1,257,926		
Capital assets, net	32,325,107	30,669,753		
Other noncurrent assets	202,996	195,481	115,177	89,090
Noncurrent assets	56,898,371	50,897,899	9,273,341	8,300,358
Total assets	68,052,805	63,039,936	10,871,760	9,503,933
DEFERRED OUTFLOWS OF RESOURCES	4,649,403	5,549,644		
LIABILITIES				
Accounts payable	2,178,244	2,394,554	22,071	21,501
Accrued salaries	642,753	644,500		
Employee benefits	393,296	394,673		
Unearned revenue	1,423,686	1,200,545	5,535	63,011
Collateral held for securities lending	1,164,481	1,079,318	45,288	42,581
Commercial paper	781,804	812,673		
Current portion of long-term debt	1,371,030	1,519,005		
Funds held for others	409,934	362,621	298,060	265,159
Department of Energy laboratories' liabilities	116,111	107,514		
Other current liabilities	1,898,204	1,593,297	44,180	45,470
Current liabilities	10,379,543	10,108,700	415,134	437,722
Federal refundable loans	244,852	246,131		
Self-insurance	584,186	584,232		
Obligations under life income agreements	35,293	34,479	149,391	137,713
Long-term debt	21,505,943	18,171,198		
Net pension liability	9,775,120	10,739,355		
Net retiree health liability	18,862,265	19,290,424		
Other noncurrent liabilities	538,381	688,802	271,825	253,288
Noncurrent liabilities	51,546,040	49,754,621	421,216	391,001
Total liabilities	61,925,583	59,863,321	836,350	828,723
DEFERRED INFLOWS OF RESOURCES	6,609,704	6,371,783	232,018	209,438
NET POSITION				
Net investment in capital assets	13,578,222	13,342,824		
Restricted:				
Nonexpendable: Endowments and gifts	1,148,699	1,121,743	4,408,143	3,967,219
Nonexpendable: Reserved for minority interests	33,754	33,507		
Expendable: Endowments and gifts	7,407,234	6,871,567	4,965,668	4,305,421
Expendable: Other, including debt service, loans, capital projects and appropriations	865,216	281,627		
Unrestricted	(18,866,204)	(19,296,792)	429,581	193,132
Total net position	\$4,166,921	\$2,354,476	\$9,803,392	\$8,465,772

See accompanying Notes to Financial Statements.

STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

Years ended June 30, 2018 and 2017 (in thousands of dollars)	UNIVERSITY OF CALIFORNIA		CAMPUS FOUNDATIONS	
	2018	2017	2018	2017
OPERATING REVENUES				
Student tuition and fees, net	\$4,838,764	\$4,477,213		
Grants and contracts, net:				
Federal	3,302,446	3,258,526		
State	567,532	454,207		
Private	1,523,778	1,421,752		
Local	315,424	306,492		
Medical centers, net	12,064,598	11,241,269		
Educational activities, net	3,670,545	3,332,671		
Auxiliary enterprises, net	1,684,759	1,579,152		
Department of Energy laboratories	1,062,428	1,147,233		
Campus foundation private gifts			\$1,340,158	\$864,411
Other operating revenues, net	970,991	938,678	1,237	3,099
Total operating revenues	30,001,265	28,157,193	1,341,395	867,510
OPERATING EXPENSES				
Salaries and wages	15,952,983	15,159,736		
Pension benefits	1,339,462	1,887,570		
Retiree health benefits	1,294,888	1,575,663		
Other employee benefits	3,245,927	2,938,133		
Supplies and materials	3,610,171	3,239,587		
Depreciation and amortization	2,027,343	1,909,870		
Department of Energy laboratories	1,054,475	1,139,232		
Scholarships and fellowships	766,857	728,594		
Utilities	303,773	292,447		
Campus foundation grants			1,100,287	939,784
Other operating expenses	4,850,982	4,648,395	35,917	29,731
Total operating expenses	34,446,861	33,519,227	1,136,204	969,515
Operating income (loss)	(4,445,596)	(5,362,034)	205,191	(102,005)
NONOPERATING REVENUES (EXPENSES)				
State educational appropriations	3,386,119	3,277,808		
State hospital fee grants	21,670	13,303		
Build America bonds federal interest subsidies	57,179	58,424		
Federal Pell Grants	421,693	381,650		
Private gifts, net	1,315,092	1,161,658		
Investment income:				
Short Term Investment Pool and other, net	307,225	204,840		
Endowment, net	97,134	85,540		
Securities lending, net	8,958	8,504	366	419
Campus foundations			76,988	71,788
Net appreciation in fair value of investments	889,534	1,721,243	646,441	792,155
Interest expense	(746,476)	(721,243)	(50)	(85)
Gain (loss) on disposal of capital assets	7,779	(59,567)		
Other nonoperating revenues (expenses)	63,610	9,837	(23)	1,037
Net nonoperating revenues	5,829,517	6,141,997	723,722	865,314
Income before other changes in net position	1,383,921	779,963	928,913	763,309
OTHER CHANGES IN NET POSITION				
Capital gifts and grants, net	403,164	255,559		
State capital appropriations	32	1,712		
Permanent endowments	25,328	23,957	408,707	286,924
Increase in net position	1,812,445	1,061,191	1,337,620	1,050,233
NET POSITION				
Beginning of year, as previously reported	2,354,476	1,319,958	8,465,772	7,536,850
Cumulative effect of accounting changes		(26,673)		(121,311)
Beginning of year, restated	2,354,476	1,293,285	8,465,772	7,415,539
End of year	\$4,166,921	\$2,354,476	\$9,803,392	\$8,465,772

See accompanying Notes to Financial Statements.

STATEMENTS OF CASH FLOWS

<i>Years ended June 30, 2018 and 2017 (in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA		CAMPUS FOUNDATIONS	
	2018	2017	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES				
Student tuition and fees	\$4,820,829	\$4,466,850		
Grants and contracts	5,571,346	4,808,226		
Medical centers	11,831,671	11,173,461		
Educational activities	3,646,918	3,306,961		
Auxiliary enterprises	1,686,540	1,578,093		
Collection of loans from students and employees	85,622	80,393		
Campus foundation private gifts			\$997,932	\$696,340
Payments to employees	(15,907,816)	(15,492,680)		
Payments to suppliers and utilities	(8,228,056)	(7,691,984)		
Payments for pension benefits	(2,208,680)	(1,881,289)		
Payments for retiree health benefits	(319,927)	(333,928)		
Payments for other employee benefits	(3,318,249)	(2,829,325)		
Payments for scholarships and fellowships	(766,797)	(728,428)		
Loans issued to students and employees	(176,940)	(63,972)		
Payments to campuses and beneficiaries			(1,157,983)	(982,389)
Other receipts (payments)	723,416	1,209,221	29,217	66,557
Net cash used by operating activities	(2,560,123)	(2,398,401)	(130,834)	(219,492)
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES				
State educational appropriations	3,371,735	3,277,402		
Federal Pell Grants	418,735	380,364		
State hospital fee grants	21,670	13,303		
Gifts received for other than capital purposes:				
Private gifts for endowment purposes	59,022	22,789	332,939	226,924
Other private gifts	1,306,915	1,129,424		
Receipt of retiree health contributions from UCRP	65,102	64,386		
Payment of retiree health contributions to UCRHBT	(82,597)	(58,198)		
Receipts from UCRHBT	372,702	348,291		
Payments for retiree health benefits made on behalf of UCRHBT	(385,462)	(360,210)		
Student direct lending receipts	562,158	772,234		
Student direct lending payments	(562,128)	(772,216)		
Proceeds from debt issuance		500,000		
Refinancing or prepayment of outstanding debt		(500,000)		
Commercial paper financing:				
Proceeds from issuance	7,576	23,497		
Payments of principal	(12,936)	(15,323)		
Interest paid on debt	(22,554)	(13,966)		
Other receipts	122,345	48,626	22,593	24,114
Net cash provided by noncapital financing activities	5,242,283	4,860,403	355,532	251,038
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES				
Commercial paper financing:				
Proceeds from issuance	642,547	711,453		
Payments of principal	(668,056)	(944,811)		(192)
Interest paid	(10,693)	(4,825)		
State capital appropriations	(1,794)	9,602		
Build America bonds federal interest subsidies	57,845	58,421		
Capital gifts and grants	130,358	130,397		
Proceeds from debt issuance	4,645,296	2,088,512		
Proceeds from the sale of capital assets	3,348	17,720		
Purchase of capital assets	(3,557,917)	(2,679,314)		
Refinancing or prepayment of outstanding debt	(1,013,739)	(820,739)		
Scheduled principal paid on debt and capital leases	(394,905)	(461,183)		
Interest paid on debt and capital leases	(878,075)	(787,307)		
Net cash used by capital and related financing activities	(\$1,045,785)	(\$2,682,074)		(\$192)

See accompanying Notes to Financial Statements.

STATEMENTS OF CASH FLOWS *continued*

<i>Years ended June 30, 2018 and 2017 (in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA		CAMPUS FOUNDATIONS	
	2018	2017	2018	2017
CASH FLOWS FROM INVESTING ACTIVITIES				
Proceeds from sales and maturities of investments	\$83,531,008	\$86,593,485	\$1,642,416	\$1,311,371
Purchase of investments	(85,520,749)	(86,745,271)	(1,751,480)	(1,355,524)
Investment income, net of investment expenses	399,519	308,663	77,643	71,985
Net cash provided (used) by investing activities	(1,590,222)	156,877	(31,421)	27,832
Net increase (decrease) in cash and cash equivalents	46,153	(63,195)	193,277	59,186
Cash and cash equivalents, beginning of year	203,370	266,565	254,100	194,914
Cash and cash equivalents, end of year	\$249,523	\$203,370	\$447,377	\$254,100
RECONCILIATION OF OPERATING INCOME (LOSS) TO NET CASH USED BY OPERATING ACTIVITIES				
Operating income (loss)	(\$4,445,596)	(\$5,362,034)	\$205,191	(\$100,971)
<i>Adjustments to reconcile operating loss to net cash used by operating activities:</i>				
Depreciation and amortization expense	2,027,343	1,909,870		
Noncash gifts			(141,530)	(143,572)
Allowance for uncollectible accounts	257,198	266,431	3,775	19,653
Loss on impairment of capital assets	10,361	7,354		
<i>Change in assets and liabilities:</i>				
Investments held by trustees	10,254	737,280	(1,186)	10,408
Accounts receivable	(639,229)	(960,355)	6,796	(931)
Pledges receivable			(147,333)	(45,844)
Inventories	(17,712)	(12,315)		
Other assets	(179,961)	(2,584)	(7,095)	2,544
Accounts payable	110,295	121,451	(1,143)	1,022
Accrued salaries	(1,747)	(350,735)		
Employee benefits	15,765	(52,110)		
Unearned revenue	225,169	26,000	(55,807)	64,259
Department of Energy	298,366	337,841		
Self-insurance	116,108	73,802		
Obligations under life income agreements			(5,659)	(10,740)
Net pension liability	(1,200,507)	(730,435)		
Net retiree health benefits liability	874,018	1,509,674		
Other liabilities	(20,248)	82,464	13,157	(15,320)
Net cash used by operating activities	(\$2,560,123)	(\$2,398,401)	(\$130,834)	(\$219,492)
SUPPLEMENTAL NONCASH ACTIVITIES INFORMATION				
Capital assets acquired through capital leases	\$47,225	\$55,360		
Capital assets acquired with a liability at year end	76,120	98,916		
Change in fair value of interest rate swaps classified as hedging derivatives	35,393	61,891		
Gifts of capital assets	294,873	122,913		
Other noncash gifts	3,276	33,194	\$203,015	\$199,500
Interest added to principal			3,232	2,934
Beneficial interests in irrevocable split interest agreements administered by third-parties	1,114	(1,802)	12,818	5,479
Noncash gifts for University-administered irrevocable split-interest agreements			35,119	8,895

See accompanying Notes to Financial Statements.

STATEMENTS OF PLANS' AND TRUST'S FIDUCIARY NET POSITION

<i>At June 30, 2018 and 2017 (in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM (UCRS)		UNIVERSITY OF CALIFORNIA RETIREE HEALTH BENEFIT TRUST (UCRHBT)		TOTAL UCRS AND UCRHBT	
	2018	2017	2018	2017	2018	2017
ASSETS						
Investments	\$90,872,718	\$82,574,019	\$128,091	\$97,801	\$91,000,809	\$82,671,820
Participants' interest in mutual funds	1,585,098	3,351,454			1,585,098	3,351,454
Investment of cash collateral	6,158,290	6,841,530			6,158,290	6,841,530
Participant 403(b) loans	184,388	180,511			184,388	180,511
Accounts receivable:						
Contributions from University and affiliates	113,353	57,552	6,537	9,656	119,890	67,208
Investment income	90,314	80,593			90,314	80,593
Security sales and other	76,615	884,657	200	147	76,815	884,804
Prepaid insurance premiums			17,300	16,125	17,300	16,125
Total assets	99,080,776	93,970,316	152,128	123,729	99,232,904	94,094,045
LIABILITIES						
Payable to University			18,547	17,015	18,547	17,015
Payable for securities purchased	1,612,039	2,380,442			1,612,039	2,380,442
Member withdrawals, refunds and other payables	86,664	89,590			86,664	89,590
Collateral held for securities lending	6,157,131	6,838,416			6,157,131	6,838,416
Total liabilities	7,855,834	9,308,448	18,547	17,015	7,874,381	9,325,463
NET POSITION HELD IN TRUST						
Members' defined benefit plan benefits	66,838,838	62,179,236			66,838,838	62,179,236
Participants' defined contribution plan benefits	24,386,104	22,482,632			24,386,104	22,482,632
Retiree health benefits			133,581	106,714	133,581	106,714
Total net position held in trust	\$91,224,942	\$84,661,868	\$133,581	\$106,714	\$91,358,523	\$84,768,582

See accompanying Notes to Financial Statements.

STATEMENTS OF CHANGES IN PLANS' AND TRUST'S FIDUCIARY NET POSITION

	UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM (UCRS)		UNIVERSITY OF CALIFORNIA RETIREE HEALTH BENEFIT TRUST (UCRHBT)		TOTAL UCRS AND UCRHBT	
	2018	2017	2018	2017	2018	2017
<i>Years ended June 30, 2018 and 2017 (in thousands of dollars)</i>						
ADDITIONS (REDUCTIONS)						
Contributions:						
Members and employees	\$2,216,388	\$2,206,455			\$2,216,388	\$2,206,455
State	169,000	171,000			169,000	171,000
University	2,374,352	2,402,009	\$338,436	\$328,057	2,712,788	2,730,066
Total contributions	4,759,740	4,779,464	338,436	328,057	5,098,176	5,107,521
<i>Investment income (expense), net:</i>						
Net appreciation (depreciation) in fair value of investments	5,098,540	8,616,400			5,098,540	8,616,400
Interest, dividends and other investment income	1,508,186	1,386,834	1,634	606	1,509,820	1,387,440
Securities lending income	136,099	89,075			136,099	89,075
Securities lending fees and rebates	(89,025)	(40,610)			(89,025)	(40,610)
Total investment income, net	6,653,800	10,051,699	1,634	606	6,655,434	10,052,305
Interest income from contributions receivable	1,148	1,472			1,148	1,472
Total additions	11,414,688	14,832,635	340,070	328,663	11,754,758	15,161,298
DEDUCTIONS						
<i>Benefit payments:</i>						
Retirement payments	2,495,200	2,330,361			2,495,200	2,330,361
Member withdrawals	153,324	140,666			153,324	140,666
Cost-of-living adjustments	517,646	474,815			517,646	474,815
Lump sum cashouts	336,966	292,270			336,966	292,270
Preretirement survivor payments	49,329	47,778			49,329	47,778
Disability payments	30,259	30,470			30,259	30,470
Death payments	9,440	9,368			9,440	9,368
Participant withdrawals	1,220,081	1,374,324			1,220,081	1,374,324
Total benefit payments	4,812,245	4,700,052			4,812,245	4,700,052
<i>Insurance premiums:</i>						
Insured plans			167,546	161,142	167,546	161,142
Self-insured plans			131,458	119,667	131,458	119,667
Medicare Part B reimbursements			10,340	9,425	10,340	9,425
Total insurance premiums, net			309,344	290,234	309,344	290,234
<i>Other deductions:</i>						
Plan administration	29,981	39,823	3,859	4,256	33,840	44,079
Other	9,388	13,127			9,388	13,127
Total other deductions	39,369	52,950	3,859	4,256	43,228	57,206
Total deductions	4,851,614	4,753,002	313,203	294,490	5,164,817	5,047,492
Increase in net position held in trust	6,563,074	10,079,633	26,867	34,173	6,589,941	10,113,806
NET POSITION HELD IN TRUST						
Beginning of year	84,661,868	74,582,235	106,714	72,541	84,768,582	74,654,776
End of year	\$91,224,942	\$84,661,868	\$133,581	\$106,714	\$91,358,523	\$84,768,582

See accompanying Notes to Financial Statements.

Notes to Financial Statements

Years ended June 30, 2018 and 2017

ORGANIZATION

The University of California (“the University”) was founded in 1868 as a public, state-supported institution. The California State Constitution provides that the University shall be a public trust administered by the corporation, “The Regents of the University of California,” which is vested with full powers of organization and government, subject only to such legislative control necessary to ensure the security of its funds and compliance with certain statutory and administrative requirements. The majority of the 26-member independent governing board (“The Regents”) is appointed by the governor and approved by the state Senate. Various University programs and capital outlay projects are funded through appropriations from the state’s annual Budget Act. The University’s financial statements are discretely presented in the state’s basic financial statements as a component unit.

FINANCIAL REPORTING ENTITY AND SIGNIFICANT ACCOUNTING POLICIES

Financial Reporting Entity

The University’s financial statements include the accounts of ten campuses, five medical centers, a statewide agricultural extension program and the operations of most student government or associated student organizations as part of the primary financial reporting entity because The Regents has certain oversight responsibilities for these organizations. In addition, the financial position and operating results of certain other legally separate organizations are included in the University’s financial reporting entity on a blended basis if The Regents is determined to be financially accountable for the organization. Organizations that are not significant or for which the University is not financially accountable, such as booster and alumni organizations, are not included in the reporting entity. However, cash invested with the University by these organizations, along with the related liability, is included in the statement of net position. The statement of revenues, expenses and changes in net position excludes the activities associated with these organizations.

Fiat Lux Risk and Insurance Company (“Fiat Lux”), the University’s wholly owned captive insurance company, is a blended component unit of the University. The Regents of the University of California are the sole corporate and voting member of Children’s Hospital & Research Center Oakland (“CHRCO”), a private, not-for-profit 501(c)(3) corporation. Children’s Hospital & Research Center Foundation, a nonprofit public benefit corporation, is organized and operated for the purpose of supporting CHRCO. CHRCO, combined with its foundation, is a blended component unit of the University.

The University has eleven legally separate, tax-exempt, affiliated campus foundations, one for each campus and the Lawrence Berkeley National Laboratory (LBNL). The economic resources received or held by the foundations are entirely for the benefit of the campuses. Because of the nature and significance of their relationship with the University, including their ongoing financial support, the campus foundations are reported under Governmental Accounting Standards Board (GASB) requirements as discretely presented component units of the University.

Specific assets and liabilities and all revenues and expenses associated with the LBNL, a major United States Department of Energy (DOE) national laboratory operated and managed by the University under contract directly with the DOE, are included in the accompanying financial statements.

The Regents has fiduciary responsibility for the University of California Retirement System (UCRS) which includes two defined benefit plans, the University of California Retirement Plan (UCRP) and the University of California Voluntary Early Retirement Incentive Plan (UC-VERIP), and four defined contribution plans in the University of California Retirement Savings Program (UCRSP), consisting of the Defined Contribution Plan (DC Plan), the Supplemental Defined Contribution Plan (SDC Plan), the Tax-Deferred 403(b) Plan (403(b) Plan) and the 457(b) Deferred Compensation Plan (457(b) Plan). As a result, the UCRS statements of plans' fiduciary net position and changes in plans' fiduciary net position are shown as a fiduciary fund in the University's financial statements.

The Regents also has fiduciary responsibility for the University of California Retiree Health Benefit Trust (UCRHBT). As a result, UCRHBT's statements of trust's fiduciary net position and changes in trust's fiduciary net position are shown as a fiduciary fund in the University's financial statements. UCRHBT allows certain University locations and affiliates, primarily campuses and medical centers that share the risks, rewards and costs of providing for retiree health benefits, the opportunity to fund such benefits on a cost-sharing basis and accumulate funds on a tax-exempt basis under an arrangement segregated from University assets. The Regents serves as Trustee of UCRHBT and has the authority to amend or terminate the trust.

Significant Accounting Policies

The financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America, using the economic resources measurement focus and the accrual basis of accounting. The University follows accounting principles issued by the Governmental Accounting Standards Board (GASB).

GASB Statement No. 81, *Irrevocable Split-Interest Agreements*, was implemented by the University as of July 1, 2017. The Statement establishes standards for accounting and financial reporting for irrevocable split-interest agreements. The Statement requires that the University recognize assets, liabilities and deferred inflows for split-interest agreements administered by the University at the inception of the agreement. The Statement also requires the University to recognize assets and deferred inflows representing its beneficial interests in irrevocable split-interest agreements that are administered by third parties. The Statement requires the University to recognize revenue when the resources become available to spend.

The adoption of Statement No. 81 did not result in any adjustments to the financial statements of UCRS or UCRHBT. The effects of reporting Statement No. 81 in the University's financial statements for the year ended June 30, 2017, were as follows:

(in thousands of dollars)

UNIVERSITY OF CALIFORNIA			
AS OF AND FOR THE YEAR ENDED JUNE 30, 2017			
	AS PREVIOUSLY REPORTED	EFFECT OF ADOPTION OF STATEMENT NO. 81	AS RESTATED
STATEMENT OF NET POSITION			
Other noncurrent assets	\$138,927	\$56,554	\$195,481
Noncurrent assets	50,841,345	56,554	50,897,899
Total assets	62,983,382	56,554	63,039,936
Deferred inflows of resources	6,284,371	87,412	6,371,783
Restricted net position - Nonexpendable: Endowments and gifts	1,143,067	(21,324)	1,121,743
Restricted net position - Expendable: Endowments and gifts	6,881,101	(9,534)	6,871,567
Total net position	2,385,334	(30,858)	2,354,476
STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION			
Private gifts, net	\$1,167,395	(\$5,737)	\$1,161,658
Net appreciation in fair value of investments	1,721,798	(555)	1,721,243
Other nonoperating revenues	10,856	(1,019)	9,837
Net nonoperating revenues	6,149,308	(7,311)	6,141,997
Income before other changes in net position	787,274	(7,311)	779,963
Permanent endowments	20,831	3,126	23,957
Increase in net position	1,065,376	(4,185)	1,061,191

(in thousands of dollars)

CAMPUS FOUNDATIONS
AS OF AND FOR THE YEAR ENDED JUNE 30, 2017

	AS PREVIOUSLY REPORTED	EFFECT OF ADOPTION OF STATEMENT NO. 81	AS RESTATED
STATEMENT OF NET POSITION			
Other noncurrent assets	\$17,760	\$71,330	\$89,090
Noncurrent assets	8,229,028	71,330	8,300,358
Total assets	9,432,603	71,330	9,503,933
Deferred inflows of resources	1,723	207,715	209,438
Restricted net position - Nonexpendable: Endowments and gifts	4,045,925	(78,706)	3,967,219
Restricted net position - Expendable: Endowments and gifts	4,363,100	(57,679)	4,305,421
Total net position	8,602,157	(136,385)	8,465,772
STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION			
Campus foundation private gifts	\$866,190	(\$1,779)	\$864,411
Investment income: Campus foundations	72,690	(902)	\$71,788
Net appreciation in fair value of investments	799,242	(7,087)	792,155
Other nonoperating revenues	5,082	(4,045)	1,037
Net nonoperating revenues	877,348	(12,034)	865,314
Income before other changes in net position	777,122	(13,813)	763,309
Permanent endowments	288,185	(1,261)	286,924
Increase in net position	1,065,307	(15,074)	1,050,233

In March 2017, the GASB issued Statement No. 85, *Omnibus 2017*, effective for the University's fiscal year beginning July 1, 2017. The Statement addresses practice issues that have been identified during implementation and application of certain GASB Statements including issues related to blending component units, goodwill, fair value measurement and application and post-employment benefits. Implementation of Statement No. 85 had no impact on the financial statements.

In May 2017, the GASB issued Statement No. 86, *Certain Debt Extinguishment Issues*, effective for the University's fiscal year beginning July 1, 2017. This Statement establishes standards of accounting and financial reporting for in-substance defeasance transactions in which cash and other monetary assets acquired with resources other than the proceeds of the refunding debt are placed in an irrevocable trust for the sole purpose of extinguishing debt. In addition, this Statement revises existing standards for prepaid insurance associated with extinguished debt. Implementation of Statement No. 86 had no impact on the financial statements.

The significant accounting policies of the University are as follows:

Cash and cash equivalents. The University and campus foundations consider all balances in demand deposit accounts to be cash. The University classifies all other highly liquid cash equivalents with original maturities less than one year as short-term investments. Certain campus foundations classify their deposits in the University's Short Term Investment Pool as a cash equivalent.

Investments. Investments are measured and recorded at fair value. Securities are generally valued at the last sale price on the last business day of the fiscal year, as quoted on a recognized exchange or by utilizing an industry standard pricing service, when available. Securities for which no sale was reported as of the close of the last business day of the fiscal year are valued at the quoted bid price of a dealer who regularly trades in the security being valued. Investment in non-exchange traded debt and equity investments are valued using inputs provided by independent pricing services or by broker/dealers who actively trade in these markets. Certain securities may be valued on a basis of a price provided by a single source.

Investments also include private equities, absolute return funds, real estate, real asset and certain corporate asset-backed securities. Private equities include venture capital partnerships, buyout, real assets and international funds. Fair values for interests in private equity, absolute return partnerships and real estate partnerships are based on valuations provided by the general partners of the respective partnerships. The valuations are primarily based on the most recent net asset value (NAV) of the underlying investments. The NAV is reported by the external investment managers, including general partners, in accordance with their policies as described in their respective financial statements and offering memoranda. The most recent NAV is adjusted for capital calls, distributions and significant known valuation changes, if any, of its related portfolio through June 30, 2018 and 2017.

Interests in certain direct investments in real estate are estimated based upon independent appraisals. Because the private equity, real estate, real assets and absolute return partnerships, along with direct investments in real estate, are not readily marketable, their estimated value is subject to uncertainty and, therefore, may differ significantly from the value that would be used had a ready market for such investments existed. These investments are generally less liquid than other investments, and the value reported may differ from the values that would have been reported had a ready market for these investments existed.

For other investments, the University considers various factors to estimate fair value, such as the timing of the transaction, the market in which the company operates, comparable transactions, company performance and projections as well as discounted cash flow analysis. The selection of an appropriate technique may be affected by the availability and general reliability of relevant inputs. In some cases, one valuation technique may provide the best indication of fair value while in other circumstances, multiple valuation techniques may be appropriate. Furthermore, the University may review the investment's underlying portfolio as well as engage external appraisers, depending on the nature of the investment.

The University exercises due diligence in assessing the external managers' use of and adherence to fair value principles. In conjunction with these procedures, estimated fair value is determined by consideration of a wide range of factors, including market conditions, redemption terms and restrictions and risks inherent to the inputs of the external investment managers' valuation. In situations where the information provided by the external manager is deemed to not be representative of the fair value as of the measurement date, management evaluates specific features of the investment and utilizes supplemental fair value information provided by the external manager along with any relevant market data to measure the investment's fair value.

Investments in registered investment companies are valued based upon the reported net asset value of those companies. Mortgage loans, held as investments, are valued on the basis of their future principal and interest payments, and are discounted at prevailing interest rates for similar instruments. Insurance contracts are valued at contract value, plus reinvested interest, which approximates fair value.

Investments denominated in foreign currencies are translated into U.S. dollar equivalents using year-end spot foreign currency exchange rates. Purchases and sales of investments and their related income are translated at the rate of exchange on the respective transaction dates. Realized and unrealized gains and losses resulting from foreign currency changes are included in the University's statement of revenues, expenses and changes in net position.

Investment transactions are recorded on the date the securities are purchased or sold (trade date). Realized gains or losses are recorded as the difference between the proceeds from the sale and the average cost of the investment sold. Dividend income is recorded on the ex-dividend date and interest income is accrued as earned. Gifts of securities are recorded based on fair value at the date of donation.

Campus foundations may invest all or a portion of their investments in University-managed investment pools. Certain securities in these investment pools are included in the University's security lending program. Accordingly, the campus foundations' investments in University-managed investment pools and their allocated share of the securities lending activities have been excluded from the University's financial statements and included in the Campus Foundations' column.

Derivative financial instruments. Derivative instruments are recorded at fair value. Futures contracts, foreign currency exchange contracts, stock rights and warrants, options and swaptions are valued at the settlement price on the last day of the fiscal year, as quoted on a recognized exchange or by utilizing an industry standard pricing service, when available. Financial institutions or independent advisors have estimated the fair value of the interest rate swaps and total return swaps using quoted market prices when available or discounted expected future net cash flows.

The University has entered into interest rate swap agreements to limit the exposure of its variable-rate debt to changes in market interest rates. Interest rate swap agreements involve the exchange with a counterparty of fixed- and variable-rate interest payments periodically over the life of the agreement without exchange of the underlying notional principal amounts. The net differential to be paid or received is recognized over the life of the agreements as an adjustment to interest expense. The University's counterparties are major financial institutions.

Derivatives are recorded at estimated fair value as either assets or liabilities in the statement of net position. Certain derivatives are determined to be hedging derivatives and designated as either a fair value or cash flow hedge. Under hedge accounting, changes in the fair value of hedging derivatives are considered to be deferred inflows (for hedging derivatives with positive fair values) or deferred outflows (for hedging derivatives with negative fair values).

Changes in the fair value of derivatives that are not hedging derivatives are recorded as net appreciation or depreciation of investments in the statement of revenues, expenses and changes in net position.

Participants' interests in mutual funds. Participants in the University's defined contribution retirement plans may invest their account balances in funds managed by the University's Chief Investment Officer or in certain mutual funds.

Accounts receivable, net. Accounts receivable, net of allowance for uncollectible amounts, include reimbursements due from state and federal sponsors of externally funded research, patient billings, accrued income on investments and other receivables. Other receivables include local government and private grants and contracts, educational activities and amounts due from students, employees and faculty.

Pledges receivable, net. Unconditional pledges of private gifts to the University or campus foundations, net of allowance for uncollectible amounts, are recorded as pledges receivable and revenue in the year promised at the net present value of expected cash flows. Conditional pledges, including all pledges of endowments and intentions to pledge, are recognized as receivables and revenues when the specified conditions are met.

Beneficial interests in irrevocable split-interest agreements. The beneficial interests in irrevocable split-interest agreements represent the University's and the campus foundations' right to the portion of the benefits from the irrevocable split-interest agreements that are administered by third parties and are recognized as an asset and deferred inflows of resources. These are measured at fair value and are reported as other noncurrent assets in the statements of net position. Changes in the fair value of the beneficial interest asset are recognized as an increase or decrease in the related deferred inflows of resources. At the termination of the agreement, net assets received from the beneficial interests are recognized as revenues.

Notes and mortgages receivable, net. Loans to students, net of allowance for uncollectible amounts, are provided from federal student loan programs and from other University sources. Home mortgage loans, primarily to faculty, are provided from the University's Short Term Investment Pool and from other University sources. Mortgage loans provided by the Short Term Investment Pool are classified as investments and loans provided by other sources are classified as mortgages receivable in the statements of net position.

Inventories. Inventories for the campuses, consisting primarily of supplies and merchandise for resale, are valued at cost, typically determined under the weighted average method, which is not in excess of estimated net realizable value. Inventories for the medical centers consist primarily of pharmaceuticals and medical supplies which are stated on a first-in, first-out basis at the lower of cost or market.

DOE national laboratories. The University operates and manages LBNL under a contract directly with the DOE. Specific assets and liabilities and all revenues and expenses associated with LBNL are included in the financial statements. Other assets, such as cash, property and equipment and other liabilities of LBNL are owned by the United States government rather than the University and, therefore, are not included in the statement of net position. The statement of cash flows excludes the cash flows associated with LBNL other than reimbursements, primarily related to pension and health benefits, since all other cash transactions are recorded in bank accounts owned by the DOE.

The University is a member in two separate joint ventures, Los Alamos National Security, LLC (LANS), and Lawrence Livermore National Security, LLC (LLNS), that operate and manage two other DOE laboratories, Los Alamos National Laboratory (LANL) and Lawrence Livermore National Laboratory (LLNL), respectively, under contracts directly with the DOE. The University's investment in LANS and LLNS is accounted for using the equity method. Accordingly, the University's statement of net position includes its equity interest in LANS and LLNS, adjusted for the equity in undistributed earnings or losses and the statement of revenues, expenses and changes in net position includes its equity in the current earnings or losses of LANS and LLNS.

The DOE is financially responsible for substantially all of the current and future costs incurred at any of the national laboratories, including pension and retiree health benefit costs. Accordingly, to the extent there is a liability on the University's statement of net position for pension or retiree health obligations related to these laboratories, the University records a receivable from the DOE.

Capital assets, net. Land, infrastructure, buildings and improvements, intangible assets, equipment, libraries, collections and special collections are recorded at cost at the date of acquisition, or estimated acquisition value at the date of donation in the case of gifts. Estimates of acquisition value involve assumptions and estimation methods that are uncertain and, therefore, the estimates could differ from actual value. Intangible assets include easements, land rights, trademarks, patents and other similar arrangements. Capital leases are recorded at the estimated present value of future minimum lease payments. Significant additions, replacements, major repairs and renovations to infrastructure and buildings are generally capitalized if the cost exceeds \$35,000 and if they have a useful life of more than one year. Minor renovations are charged to operations. Equipment with a cost in excess of \$5,000 and a useful life of more than one year is capitalized. Incremental costs, including salaries and employee benefits, directly related to the acquisition, development and installation of major software projects are included in the cost of the capital assets. All costs of land, library collections and special collections are capitalized.

Depreciation is calculated using the straight-line method over the estimated economic life of the asset. Equipment under capital leases is amortized over the estimated useful life of the equipment. Leasehold improvements are amortized using the straight-line method over the shorter of the life of the applicable lease or the economic life of the asset.

Estimated economic lives are generally as follows:

	YEARS
Infrastructure	25
Buildings and improvements	15-33
Equipment	2-20
Computer software	3-7
Intangible assets	2-indefinite
Library books and collections	15

Capital assets acquired through federal grants and contracts where the federal government retains a reversionary interest are also capitalized and depreciated.

Inexhaustible capital assets, such as land or special collections that are protected, preserved and held for public exhibition, education or research, including art, museum, scientific and rare book collections are not depreciated.

Interest on borrowings to finance facilities is capitalized during construction, net of any investment income earned on tax-exempt borrowings during the temporary investment of project-related borrowings.

Service concession arrangements. The University has entered into service concession arrangements with third parties for parking, student housing and certain other faculty and student services. Under these arrangements, the University enters into ground leases with third parties at minimal or no cost, and gives the third party the right to construct, operate and maintain a facility, primarily for the benefit of students and faculty at competitive rates. Rate increases for use of the facilities are subject to certain constraints and ownership of the facilities reverts to the University upon expiration of the ground lease. The facilities are reported as capital assets by the University when placed in service, and a corresponding deferred inflow of resources is reported. The University has not provided guarantees on financing obtained by the third parties under these arrangements.

Unearned revenue. Unearned revenue primarily includes amounts received from grant and contract sponsors that have not been earned under the terms of the agreement and other revenue billed in advance of the event, such as student tuition and fees for housing and dining services.

Funds held for others. Funds held for others result from the University or the campus foundations acting as an agent, or fiduciary, on behalf of organizations that are not significant or financially accountable to the University or campus foundations.

Federal refundable loans. Certain loans to students are administered by the University with funding primarily supported by the federal government. The University’s statement of net position includes both the notes receivable and the related federal refundable loan liability representing federal capital contributions owed upon termination of the program.

Bond premium. The premium received in the issuance of long-term debt is amortized as a reduction to interest expense over the term of the related long-term debt.

Self-insurance programs. The University is self-insured or insured through a wholly owned captive insurance company for medical malpractice, workers’ compensation, employee health care and general liability claims. These risks are subject to various claim and aggregate limits, with excess liability coverage provided by an independent insurer. Liabilities are recorded when it is probable a loss has occurred and the amount of the loss can be reasonably estimated. These losses include an estimate for claims that have been incurred, but not reported. The estimated liabilities are based upon an independent actuarial determination of the present value of the anticipated future payments. Settlements did not exceed self-insured or supplementally insured coverage for each program in any of the past three fiscal years.

Obligations under life income agreements. Obligations under life income agreements represent trusts with living income beneficiaries where the University has a residual interest. The investments associated with these agreements are recorded at fair value. The discounted present value of the income beneficiary interest is reported as a liability in the statement of net position. Gifts subject to such agreements administered by the University are recorded as deferred inflows of resources, net of the income beneficiary share, at the date of the gift. Actuarial gains and losses are included in deferred inflows of resources in the statement of net position. At the termination of the agreement, the University’s residual interest is recorded as gift revenue in the statement of revenues, expenses and changes in net position.

Pollution remediation obligations. Upon an obligating event, the University estimates the components of any expected pollution remediation costs and recoveries from third parties. The costs, estimated using the expected cash flow technique, are accrued as a liability. Pollution remediation liabilities generally involve groundwater, soil and sediment contamination at certain sites where state and other regulatory agencies have indicated that the University is among the responsible parties. The liabilities are reviewed annually and may increase or decrease the cost of recovery from third parties, if any, as a result of additional information that refines the estimates, or from payments made from revenue sources that support the activity. There were no expected recoveries at June 30, 2018 and 2017 reducing the pollution remediation liability.

Deferred outflows of resources and deferred inflows of resources. Deferred outflows of resources and deferred inflows of resources represent a consumption and acquisition of net position that apply to a future period, respectively. The University classifies gains on refunding of debt as deferred inflows of resources and losses as deferred outflows of resources and amortizes such amounts as a component of interest expense over the shorter of the remaining life of the old or new debt.

The University classifies changes in irrevocable split-interest agreements as deferred inflows of resources.

The University classifies an increase in the fair value of the hedging derivatives as deferred inflows of resources, and a decrease as deferred outflows of resources. Payments received or to be received by the University from service concession arrangements are reported as deferred inflows of resources.

Changes in net pension liability and net retiree health benefit liability not included in pension expense and retiree health benefits expense, respectively, are reported as deferred outflows of resources or deferred inflows of resources. Employer contributions subsequent to the measurement date of the net pension and retiree health liabilities are reported as deferred outflows of resources.

Net position. Net position is required to be classified for accounting and reporting purposes into the following categories:

Net investment in capital assets. This category includes all of the University's capital assets, net of accumulated depreciation, reduced by outstanding debt attributable to the acquisition, construction or improvement of those assets.

Restricted. The University and campus foundations classify the net position resulting from transactions with purpose restrictions as restricted net position until the specific resources are used for the required purpose or for as long as the provider requires the resources to remain intact.

Nonexpendable. The net position subject to externally imposed restrictions, which must be retained in perpetuity by the University or campus foundations, is classified as nonexpendable net position. This includes the University and campus foundation permanent endowment funds.

Also included in nonexpendable net position are minority interests, which include the net position of legally separate organizations attributable to other participants.

Expendable. The net position whose use by the University or campus foundations is subject to externally imposed restrictions that can be fulfilled by actions of the University or campus foundations pursuant to those restrictions or that expire by the passage of time is classified as expendable net position.

Unrestricted. The net position that is not subject to externally imposed restrictions governing its use is classified as unrestricted net position. The University's unrestricted net position may be designated for specific purposes by management or The Regents. The campus foundations' unrestricted net position may be designated for specific purposes by their Boards of Trustees. Substantially all of the University's unrestricted net position is allocated for academic and research initiatives or programs, for capital programs or for other purposes.

Restricted or unrestricted resources are spent based upon a variety of factors, including funding restrictions, consideration of prior and future revenue sources, the type of expense incurred, the University's budgetary policies surrounding the various revenue sources or whether the expense is a recurring cost. Unrestricted net position is negative due primarily to liabilities for pension and retiree health benefits exceeding University assets available to pay such obligations.

Revenues and expenses. Operating revenues of the University include receipts from student tuition and fees, grants and contracts for specific operating activities and sales and services from medical centers, educational activities and auxiliary enterprises. Operating expenses incurred in conducting the programs and services of the University are presented in the statement of revenues, expenses and changes in net position as operating activities. The University's equity in current earnings or losses of LANS and LLNS is also an operating transaction.

Certain significant revenues relied upon and budgeted for fundamental operational support of the core instructional mission of the University are mandated by the GASB to be recorded as nonoperating revenues, including state educational appropriations, certain federal grants for student financial aid, private gifts and investment income, since the GASB does not consider them to be related to the principal operating activities of the University.

Campus foundations are established to financially support the University. Private gifts to campus foundations are recognized as operating revenues since, in contrast to the University, such contributions are fundamental to the core mission of the campus foundations. Foundation grants to the University are recognized as operating expenses by the foundations. Private gift or capital gift revenues associated with campus foundation grants to the University are recorded by the University as gifts when the foundations transfer the gifts to the University.

Nonoperating revenues and expenses include state educational appropriations, state financing appropriations, state hospital fee grants, Build America Bonds federal interest subsidies, Federal Pell Grants, private gifts for other than capital purposes, investment income, net appreciation (or depreciation) in the fair value of investments, interest expense and the loss on the disposal of capital assets.

State capital appropriations, capital gifts and grants and gifts for endowment purposes are classified as other changes in net position.

Student tuition and fees. Substantially all student tuition and fees provide for the current operations of the University. A small portion of the student fees, reported as capital gifts and grants, is required for debt service associated with student union and recreational centers.

The University recognizes scholarship allowances as the difference between the stated charge for tuition and fees, housing and dining charges, recreational center and other fees, and the amount that is paid by the student and third parties on behalf of the student. Payments of financial aid made directly to students are classified as scholarship and fellowship expenses.

Scholarship allowances are netted against student tuition and fees in the statement of revenues, expenses and changes in net position for the years ended June 30 as follows:

(in thousands of dollars)

	2018	2017
Student tuition and fees	\$1,250,300	\$1,129,720
Auxiliary enterprises	206,012	185,038
Other operating revenues	30,602	29,654
Scholarship allowances	\$1,486,914	\$1,344,412

State appropriations. The state of California provides appropriations to the University on an annual basis. State educational appropriations are recognized as nonoperating revenue; however, the related expenses for educational, retirement or other specific operating purposes are reported as operating expenses. State appropriations for capital projects are recorded as revenue under other changes in net position when the related expenditures are incurred. Special state appropriations for AIDS, tobacco and breast cancer research are reported as grant operating revenue.

Grant and contract revenue. The University receives grant and contract revenue from governmental and private sources. The University recognizes revenue associated with the direct costs of sponsored programs as the related expenditures are incurred. Recovery of facilities and administrative costs of federally sponsored programs is at cost reimbursement rates negotiated with the University's federal cognizant agency, the U.S. Department of Health and Human Services. For the year ended June 30, 2018, the facilities and administrative cost recovery totaled \$1.1 billion, which consisted of \$782.0 million from federally sponsored programs and \$333.8 million from other sponsors. For the year ended June 30, 2017, the facilities and administrative cost recovery totaled \$1.1 billion, which consisted of \$764.0 million from federally sponsored programs and \$312.3 million from other sponsors.

Medical center revenue. Medical center revenue is reported at the estimated net realizable amounts from patients and third-party payors, including Medicare, Medi-Cal and others, for services rendered, as well as estimated retroactive adjustments under reimbursement agreements with third-party payors. Laws and regulations governing Medicare and Medi-Cal are complex and subject to interpretation. Retroactive adjustments are accrued on an estimated basis in the period the related services are rendered and adjusted in future periods as final settlements are determined. It is reasonably possible that estimated amounts accrued could change significantly based upon settlement, or as additional information becomes available.

Net pension liability. The University records net pension liability equal to the net pension liability for its defined benefit plans. The net pension liability is measured as the total pension liability, less the amount of the pension plans' fiduciary net positions. The fiduciary net position and changes in net position of the defined benefit plans has been measured consistent with the accounting policies used

by the plans. The total pension liability is determined based upon discounting projected benefit payments based on the benefit terms and legal agreements existing at the pension plan's fiscal year end. Projected benefit payments are discounted using a single rate that reflects the expected rate of return on investments, to the extent that plan assets are available to pay benefits, and a tax-exempt, high-quality municipal bond rate when plan assets are not available.

Pension expense is recognized for benefits earned during the period, interest on the unfunded liability and changes in benefit terms. The differences between expected and actual experience and changes in assumptions about future economic or demographic factors are reported as deferred inflows or outflows and are recognized over the average expected remaining service period for employees eligible for pension benefits. The differences between expected and actual returns are reported as deferred inflows or outflows and are recognized over five years.

Both current employees and retirees at LBNL participate in UCRP. The University makes contributions to UCRP for LBNL employees based upon rates authorized by The Regents and is reimbursed by the DOE. The University also makes contributions to UCRP for LANL and LLNL retirees and terminated vested members, whose benefits were retained in UCRP at the time the joint ventures were formed. The University records a receivable for the net pension liability that is expected to be collected from the DOE. The University deposits funds in UCRP when the DOE makes payments for these contributions. The contributions from the DOE and deposits into UCRP on behalf of DOE are included as DOE laboratory revenue in the statement of revenues, expenses and changes in net position.

Retiree health benefits and liability. The University's net retiree health benefits liability is measured as the total retiree health benefits liability, less the amount of the University of California Retiree Health Benefit Trust (UCRHBT) fiduciary net position. The fiduciary net position and changes in net position of UCRHBT has been measured consistent with the accounting policies used by the trust. The total retiree health benefits liability is determined based upon discounting projected benefit payments based on the benefit terms and legal agreements existing at the health benefit trust's fiscal year end. Projected benefit payments are discounted using a single rate that reflects the expected rate of return on investments, to the extent that plan assets are available to pay benefits, and a tax-exempt, high-quality municipal bond rate when plan assets are not available.

Expense for retiree health benefits is recognized for benefits earned during the period, interest on the unfunded liability and changes in benefit terms. The differences between expected and actual experience and changes in assumptions about future economic or demographic factors are reported as deferred inflows or outflows and are recognized over the average expected remaining service period for employees eligible for retiree health benefits. The differences between expected and actual returns are reported as deferred inflows or outflows and are recognized over five years.

LBNL participates in the University's retiree health plans. The net retiree health benefits liability for LBNL is determined independently from the University's campuses and medical centers. Retiree health benefits expense for LBNL is included with the DOE laboratory expense in the statement of revenues, expenses and changes in net position. The contributions from the DOE are included as DOE laboratory revenue in the statement of revenues, expenses and changes in net position.

The University records a receivable from the DOE for the DOE's portion of the University's net retiree health benefits liability attributable to LBNL. The University does not have any retiree health benefits liability for LANL or LLNL retiree health benefit costs since they do not participate in the University's retiree health plans.

Campus and medical center contributions toward retiree health costs made to UCRHBT, the University's LBNL-related payments made directly to health care insurers and administrators and the corresponding reimbursements from the DOE, are shown as operating activities in the statement of cash flows. Cash flows resulting from retiree health contributions from retirees are shown as noncapital financing activities in the statement of cash flows.

University of California Retiree Health Benefit Trust. UCRHBT receives the University's contributions toward retiree health benefits from campuses, medical centers and University affiliates. The University receives retiree health contributions from University affiliates and campus and medical center retirees that are deducted from their UCRP benefit payments. The University also remits these retiree contributions to UCRHBT.

The University acts as a third-party administrator on behalf of UCRHBT and pays health care insurers and administrators amounts currently due under the University's retiree health benefit plans for retirees. UCRHBT reimburses the University for these amounts.

LBNL does not participate in UCRHBT; therefore, the DOE has no interest in the Trust's assets.

Compensated absences. The University accrues annual leave, including employer-related costs, for employees at rates based upon length of service and job classification and compensatory time based upon job classification and hours worked.

Endowment spending. Under provisions of California law, the Uniform Prudent Management of Institutional Funds Act allows for investment income, as well as a portion of realized and unrealized gains, to be expended for the operational requirements of University programs.

Tax exemption. The University is recognized as a tax-exempt organization under Section 501(c)(3) of the Internal Revenue Code (IRC), except for tax on unrelated business income under IRC Section 511. The University is also exempt from federal income tax under IRC Section 115(a) as a state institution. In addition, the University is exempt from state income taxes imposed under the California Revenue and Taxation Code. UCRS plans are qualified under IRC Section 401(a) and the related trusts are tax-exempt under Section 501(c)(3). The campus foundations are also qualified for tax exemption under IRC Section 501(c)(3). CHRCO and its component unit, the Children's Hospital and Research Center Foundation, are qualified for exemption under IRC Section 501(c)(3). Income received by UCRHBT is tax-exempt under IRC Section 115(a).

Use of estimates. The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenditures during the reporting period. Although management believes the estimates and assumptions are reasonable, they are based upon information available at the time the estimate or judgment is made and actual amounts could differ from those estimates.

New accounting pronouncements. In December 2016, the GASB issued Statement No. 83, *Certain Asset Retirement Obligations*, effective for the University's fiscal year beginning July 1, 2018. This Statement establishes guidance for determining the timing and pattern of recognition for liabilities and corresponding deferred outflow of resources related to asset retirement obligations. The Statement requires the measurement of an asset retirement obligation to be based on the best estimate of the current value of outlays expected to be incurred. The deferred outflow of resources associated with an asset retirement obligation will be measured at the amount of the corresponding liability upon initial measurement and generally recognized as an expense during the reporting periods that the asset provides service. Disclosure requirements include a general description of the asset retirement obligation and associated tangible capital assets, the source of the obligation to retire the assets, the methods and assumptions used to measure the liability, and other relevant information. The University is evaluating the effect that Statement No. 83 will have on its financial statements.

In January 2017, the GASB issued Statement No. 84, *Fiduciary Activities*, effective for the University's fiscal year beginning July 1, 2019. This Statement establishes criteria for identifying fiduciary activities of all state and local governments. Governments with activities meeting the criteria should present a statement of fiduciary net position and a statement of changes in fiduciary net position. This Statement describes four fiduciary funds that should be reported, if applicable: (1) pension (and other employee benefit) trust funds, (2) investment trust funds, (3) private-purpose trust funds and (4) custodial funds. Custodial funds generally should report fiduciary activities that are not held in a trust or an equivalent arrangement that meets specific criteria. The University is evaluating the effect that Statement No. 84 will have on its financial statements.

In June 2017, the GASB issued Statement No. 87, *Leases*, effective for the University's fiscal year beginning July 1, 2020. This Statement establishes a single approach to accounting for and reporting leases based on the principle that leases are financings of the right to use an underlying asset. Under this Statement, a lessee is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources. Limited exceptions to the single-approach guidance are provided for short-term leases, defined as lasting a maximum of twelve months at inception, including any options to extend, financed purchases, leases of assets that are investments and certain regulated leases. The University is evaluating the effect Statement No. 87 will have on its financial statements.

In April 2018, the GASB issued Statement No. 88, *Certain Disclosures Related to Debt, including Direct Borrowings and Direct Placements*, effective for the University's fiscal year beginning July 1, 2018. This Statement defines debt for purposes of disclosures in notes to financial statements as a liability that arises from a contractual obligation to pay cash (or other assets that may be used in lieu of cash) in one or more payments to settle an amount that is fixed at the date the contractual obligation is established. This Statement requires additional disclosures related to debt including providing additional information for direct borrowings and direct placements of debt separately from other debt. The University is evaluating the effect that Statement No. 88 will have on its financial statements.

In June 2018, the GASB issued Statement No. 89, *Accounting for Interest Cost Incurred before the End of a Construction Period*, effective prospectively for the University's fiscal year beginning July 1, 2020. The Statement requires that interest cost incurred before the end of a construction period to be recognized as an expense in the period in which the cost is incurred. As a result, interest costs would not be capitalized as part of the asset's historical cost. For construction in progress, interest cost incurred after applying this Statement No. 89 will not be capitalized. The University is evaluating the effect that Statement No. 89 will have on its financial statements.

In August 2018, the GASB issued Statement No. 90, *Majority Equity Interests — An Amendment of GASB Statements No. 14 and No. 61*, effective for the University's fiscal year beginning July 1, 2019. The Statement defines a majority equity interest in a legally separate organization and clarifies the accounting and financial reporting for majority equity interests, classified as either investments or component units, in the financial statements. The University is evaluating the effect that Statement No. 90 will have on its financial statements.

1. CASH AND CASH EQUIVALENTS

The University maintains centralized management for substantially all of its cash and cash equivalents. Cash in demand deposit accounts is minimized by sweeping available cash balances into investment accounts on a daily basis.

Under University policy, deposits are only held at financial institutions that maintain an issuer rating on long-term debt of A3 or higher by Moody's, A- or higher by Standard & Poor's or an Asset Peer Group rating of 65 or higher as defined by Sheshunoff Bank Rating Reports. At June 30, 2018 and 2017, the carrying amount of the University's demand deposits, generally held in five nationally recognized banking institutions, was \$249.5 million and \$203.4 million, respectively, compared to bank balances of \$169.7 million and \$159.7 million, respectively. Deposits in transit and cash awaiting investment are the primary differences. The University's deposits are uninsured and uncollateralized.

The University does not have significant exposure to foreign currency risk in demand deposit accounts. Accounts held in foreign countries maintain minimum operating balances with the intent to reduce potential foreign exchange risk while providing an adequate level of liquidity to meet the obligations of the academic programs established abroad. The equivalent U.S. dollar balances required to support research groups and education abroad programs in foreign countries was \$4.4 million at June 30, 2018 and \$6.7 million at June 30, 2017.

The carrying amount of the campus foundations' cash and cash equivalents at June 30, 2018 and 2017 was \$447.4 million and \$254.1 million, respectively, compared to bank balances of \$58.0 million and \$94.3 million, respectively. Deposits in transit and cash awaiting investment are the primary differences. Included in bank balances are deposits in the University's Short Term Investment Pool of \$387.6 million at June 30, 2018 and \$157.6 million at June 30, 2017, with the remaining uncollateralized bank balances insured by the Federal Deposit Insurance Corporation (FDIC). Uncollateralized bank balances include \$8.7 million and \$6.5 million in excess of the FDIC limits at June 30, 2018 and 2017, respectively. The campus foundations do not have exposure to foreign currency risk in their cash and cash equivalents.

2. INVESTMENTS

The Regents, as the governing Board, is responsible for the oversight of the University's, UCRS' and UCRHBT's investments and establishes an investment policy, which is carried out by the Chief Investment Officer. These investments are associated with the Short Term Investment Pool (STIP), Total Return Investment Pool (TRIP), General Endowment Pool (GEP), UCRS, UCRHBT and other investment pools managed by the Chief Investment Officer, or are separately invested. Pursuant to The Regents' policies on campus foundations, the Board of Trustees for each campus foundation may determine that all or a portion of their investments will be managed by the Chief Investment Officer. Asset and Risk Allocation Policy guidelines are provided to the campus foundations by the Investments Subcommittee of The Regents.

STIP allows participants to maximize the returns on their short-term cash balances by taking advantage of the economies of scale of investing in a large pool with a broad range of maturities and is managed to maximize current earned income. Cash to provide for payroll, construction expenditures and other operating expenses for campuses and medical centers is invested in STIP. The available cash in UCRS or endowment investment pools awaiting investment, or cash for administrative expenses, is also invested in STIP.

Investments authorized by The Regents for STIP include fixed-income securities with a maximum maturity of five and one-half years. In addition, for STIP, The Regents has also authorized loans, primarily to faculty members residing in California, under the University's Mortgage Origination Program with terms of up to 40 years.

TRIP allows participants the opportunity to maximize the return on their intermediate-term working capital by taking advantage of the economies of scale of investing in a large pool across a broad range of asset classes. TRIP is managed to a total return objective and is intended to supplement STIP. Investments authorized by The Regents for TRIP include a diversified portfolio of equity, fixed income and alternative investments.

GEP is an investment pool in which a large number of individual endowments participate in order to benefit from diversification and economies of scale. GEP is a balanced portfolio and the primary investment vehicle for endowed gift funds. Where donor agreements place constraints on allowable investments, assets associated with endowments are invested in accordance with the terms of the agreements.

Other investment pools primarily facilitate annuity and life income arrangements. Separate investments are those that cannot be pooled due to investment restrictions or income requirements.

Investments authorized by The Regents for GEP, UCRS, other investment pools and separate investments include equity securities, fixed-income securities and certain other asset classes. The equity portion of the investment portfolios include both domestic and foreign common and preferred stocks which may be included in actively or passively managed strategies, along with exposure to private equities. The University's investment portfolios may include foreign currency-denominated equity securities. The fixed-income portion of the investment portfolios may include both domestic and foreign securities, along with certain securitized investments, including mortgage-backed and asset-backed securities. Fixed-income investment guidelines permit the use of futures and options on fixed-income instruments in the ongoing management of the portfolios. Real estate investments are authorized for all pools except for STIP. Absolute return strategies, which may incorporate short sales, plus derivative positions to implement or hedge an investment position, are also authorized for all pools except for STIP.

Derivative instruments, including futures, forward contracts, options and swap contracts are authorized for portfolio rebalancing in accordance with The Regents' asset allocation policy and as substitutes for physical securities. Derivatives are not used for speculative purposes.

The Regents has also authorized certain employee account balances in defined contribution plans included as part of UCRS' investments to be invested in mutual funds. The participants' interests in mutual funds are not managed by the Chief Investment Officer and totaled \$1.6 billion and \$3.4 billion at June 30, 2018 and 2017, respectively.

Investments authorized by The Regents for the UCRHBT are restricted to a portfolio of high-quality money market instruments in a commingled fund that is managed externally. The average credit quality of the portfolio is A-1/P-1 with an average maturity of 17 days and 26 days at June 30, 2018 and 2017, respectively. The fair values of UCRHBT's investment in this portfolio were \$128.1 million and \$97.8 million at June 30, 2018 and 2017, respectively. These are measured at net asset value as of June 30, 2018 and 2017, respectively.

The composition of investments, by investment type at June 30 is as follows:

(in thousands of dollars)

	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2018	2017	2018	2017	2018	2017
<i>Equity securities:</i>						
Domestic	\$2,981,893	\$2,641,778	\$258,339	\$224,555	\$19,851,801	\$19,308,688
Foreign	2,575,283	2,322,774	23,255	26,056	13,473,111	10,124,433
Equity securities	5,557,176	4,964,552	281,594	250,611	33,324,912	29,433,121
<i>Fixed- or variable-income securities:</i>						
U.S. government-guaranteed:						
U.S. Treasury bills, notes and bonds	2,726,553	1,342,026	375,054	380,834	1,896,840	1,819,707
U.S. Treasury strips	538,903	370,436	212	215	1,464,655	900,066
U.S. TIPS	124,756	379,808			2,512,561	2,422,599
U.S. government-backed securities			15	24		
U.S. government-backed - asset-backed securities	9,358	13,695	11,386	991	7,214	10,146
U.S. government-guaranteed	3,399,570	2,105,965	386,667	382,064	5,881,270	5,152,518
<i>Other U.S. dollar-denominated:</i>						
Corporate bonds	3,776,818	7,945,898	28,768	28,301	4,490,273	4,750,525
Commercial paper	4,248,162	63,553			2,012,845	918,088
U.S. agencies	1,917,652	1,408,734			4,035,120	4,155,225
U.S. agencies - asset-backed securities	687,546	671,434	36,588	48,264	2,953,252	3,323,667
Corporate - asset-backed securities	621,817	504,652	59,824	49,518	1,639,967	1,607,426
Supranational/foreign	1,422,310	1,026,235	4,207	5,492	2,804,258	2,544,718
Other	116,497	120,314	805	1,478	175,279	26,996
Other U.S. dollar-denominated	12,790,802	11,740,820	130,192	133,053	18,110,994	17,326,645
<i>Foreign currency-denominated:</i>						
Corporate	113				576	
Foreign currency-denominated	113				576	
<i>Commingled funds:</i>						
Absolute return funds	3,957,859	3,962,553	2,589,828	2,177,012	4,475,682	4,987,355
Non-U.S. equity funds	2,172,821	2,077,584	1,031,849	991,267	8,958,098	9,264,782
Private equity	1,701,059	1,388,163	954,534	708,680	3,178,252	2,939,524
Money market funds	681,658	814,888	1,060,958	935,429	5,817,621	5,020,007
U.S. equity funds	193,547	145,967	771,075	664,627	4,069,653	2,341,302
Real estate investment trusts	310,119	460,025	162,111	150,846	1,475,420	1,633,123
Real assets	381,533	206,076			1,146,296	866,245
U.S. bond funds	402,336	218,839	146,316	131,541	1,076,196	1,055,611
Non-U.S. bond funds	135,862	132,608	21,697	16,433	14	15
Balanced funds	234,375	212,079	1,330,673	1,222,549		
Commingled funds	10,171,169	9,618,782	8,069,041	6,998,384	30,197,232	28,107,964
Investment derivatives	(5,520)	(241)	(355)	1,995	(19,142)	(3,002)
Publicly traded real estate investment trusts	224,036	152,636			1,711,685	722,541
Mortgage loans	510,765	358,890				
Real estate	428,590	354,597	135,731	119,516	1,665,191	1,834,232
Other investments	27,701	12,390	236,710	321,367		
Campus foundations' investments with the University	(2,611,651)	(2,151,497)				
UCRS investment in the STIP	(3,123,754)	(2,678,532)				
Total investments	27,368,997	24,478,362	9,239,580	8,206,990	\$90,872,718	\$82,574,019
Less: Current portion	(4,890,075)	(6,249,657)	(857,844)	(674,868)		
Noncurrent portion	\$22,478,922	\$18,228,705	\$8,381,736	\$7,532,122		

Investment Risk Factors

There are many factors that can affect the value of investments. Some, such as custodial credit risk, concentration of credit risk and foreign currency risk, may affect both equity and fixed-income securities. Equity securities respond to such factors as economic conditions, individual company earnings performance and market liquidity, while fixed-income securities are particularly sensitive to credit risks and changes in interest rates. Alternative investment strategies and their underlying assets and rights are subject to an array of economic and market vagaries that can limit or erode value.

Credit Risk

Fixed-income securities are subject to credit risk, which is the chance that a bond issuer will fail to pay interest or principal in a timely manner, or the possibility that negative perceptions of the issuer's ability to make these payments will cause security prices to decline. These circumstances may arise due to a variety of factors such as financial weakness, bankruptcy, litigation and/or adverse political developments.

A bond's credit quality is an assessment of the issuer's ability to pay interest on the bond and, ultimately, to pay the principal. Credit quality is evaluated by one of the independent bond rating agencies, for example Moody's Investors Service (Moody's) or Standard and Poor's (S&P). The lower the rating, the greater the chance, in the rating agency's opinion, that the bond issuer will default, or fail to meet its payment obligations. Generally, the lower a bond's credit rating, the higher its yield should be to compensate for the additional risk.

Certain fixed-income securities, primarily obligations of the U.S. government or those explicitly guaranteed by the U.S. government, are considered to have minimal credit risk. Asset-backed securities are debt obligations that represent claims to the cash flows from pools of commercial, mortgage, credit card or student loans. Mortgage-backed securities issued by Ginnie Mae are backed by the full faith and credit of the U.S. government.

The investment guidelines for STIP recognize that a limited amount of credit risk, properly managed and monitored, is prudent and provides incremental risk adjusted return over its benchmark (the benchmark for STIP is a weighted average of the two-year Treasury income note and Citigroup 3-month Treasury bill). No more than 5 percent of the total market value of the STIP portfolio may be invested in securities rated below investment grade (BB, Ba or lower). The average credit quality of STIP must be A or better and commercial paper must be rated at least A-1, P-1 or F-1.

The University recognizes that credit risk is appropriate in balanced investment pools such as TRIP, UCRS and GEP by virtue of the benchmarks chosen for the fixed-income portion of those pools.

The core fixed-income benchmark for UCRS, GEP and TRIP is the Barclays Capital U.S. Aggregate Bond Index, comprised of 25.0 percent corporate bonds and 30.6 percent mortgage/asset-backed bonds, all of which carry some degree of credit risk. The remaining 44.4 percent is government issued bonds.

Credit risk in TRIP, UCRS and GEP is managed primarily by diversifying across issuers. In addition, portfolio guidelines for UCRS and GEP through March 2018 mandate that no more than 15 percent of the market value of fixed-income securities may be invested in issues with credit ratings below investment grade. Further, the weighted average credit rating must be A or higher.

In addition, the asset and risk allocation policies for both UCRP and GEP allow for dedicated allocations to non-investment grade and emerging market bonds, an investment which entails credit, default and/or sovereign risk.

The credit risk profile for fixed- or variable-income securities at June 30 is as follows:

(in thousands of dollars)

	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2018	2017	2018	2017	2018	2017
<i>Fixed- or variable-income securities:</i>						
U.S. government-guaranteed	\$3,399,570	\$2,105,965	\$386,667	\$382,064	\$5,881,270	\$5,152,518
<i>Other U.S. dollar-denominated:</i>						
AAA	686,606	394,656	20,817	12,538	1,798,100	1,465,322
AA	1,866,014	1,284,954	24,932	37,676	3,115,678	3,390,694
A	1,712,026	1,294,567	7,045	3,781	1,472,752	1,243,993
BBB	2,067,115	2,068,030	23,815	23,963	2,587,735	2,946,777
BB	461,019	450,708	592	2,095	1,176,085	1,242,851
B	302,023	296,788	1,242	3,088	1,069,331	1,057,297
CCC or below	42,513	42,151	19,629	19,898	200,111	192,950
Not rated	5,653,486	5,908,966	32,120	30,014	6,691,202	5,786,761
<i>Foreign currency-denominated:</i>						
B	113				576	
<i>Commingled funds:</i>						
U.S. bond funds: Not rated	402,336	218,839	146,316	131,541	1,076,196	1,055,611
Non-U.S. bond funds: Not rated	135,862	132,608	21,697	16,433	14	15
Money market funds: Not rated	681,658	814,888	1,060,958	935,429	5,817,621	5,020,007
Mortgage loans: Not rated	510,765	358,890				

Custodial Credit Risk

Custodial credit risk is the risk that in the event of the failure of the custodian, the investments may not be returned.

Substantially all of the University's, campus foundations' and UCRS' securities are registered in the University's name by the custodial bank as an agent for the University. Other types of investments represent ownership interests that do not exist in physical or book-entry form. As a result, custodial credit risk for such investments is remote.

Concentration of Credit Risk

Concentration of credit risk is the risk associated with a lack of diversification, such as having substantial investments in a few individual issuers, thereby exposing the organization to greater risks resulting from adverse economic, political, regulatory, geographic or credit developments.

The U.S. and non-U.S. equity portions of the University and UCRS portfolios may be managed either passively or actively. For the portions managed passively, the concentration of individual securities is similar to their concentration in the benchmark. While some securities have a larger representation in the benchmark than others, the University considers that passive management results in an absence of concentration of credit risk. For the portions managed actively, asset class guidelines do not specifically address concentration risk, but do state that the equity asset class, in the aggregate, will be appropriately diversified to control overall risk and will exhibit portfolio characteristics similar to the asset class benchmark (including concentration of credit risk). Concentration risk for individual portfolios is monitored relative to their individual benchmarks and agreed-upon risk parameters in their guidelines.

Investment guidelines addressing concentration of credit risk related to the core investment grade fixed-income portion of the University and UCRS portfolios include a limit of no more than 3 percent of each portfolio's market value to be invested in any single issuer (except for securities issued by the U.S. government or its agencies). These same guidelines apply to STIP. For high-yield and emerging market debt, the corresponding limit is 5 percent.

Each campus foundation may have its own individual investment policy designed to limit exposure to a concentration of credit risk. Securities issued or explicitly guaranteed by the U.S. government, mutual funds, external investment pools, other investment pools or investments that are invested by the University for the campus foundations are not subject to concentration of credit risk. Most of the campus foundations that hold other types of investments have policies to limit the exposure to an individual issuer.

Investments in issuers other than U.S. government-guaranteed securities that represent 5 percent or more of investments held by the respective foundation at June 30 are as follows:

(in thousands of dollars)

UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS	
2018	2017
Bayside Partners, LP	\$88,257

Interest Rate Risk

Interest rate risk is the risk that the value of fixed-income securities will decline because of changing interest rates. The prices of fixed-income securities with a longer time to maturity, measured by effective duration, tend to be more sensitive to changes in interest rates and, therefore, more volatile than those with shorter durations. Effective duration is the approximate change in price of a security resulting from a 100-basis-point (1-percentage-point) change in the level of interest rates. It is not a measure of time.

Interest rate risk for STIP is managed by constraining the maturity of all individual securities to be less than five and one-half years. There is no restriction on weighted average maturity of the portfolio as it is managed relative to the liquidity demands of the investors. The nature and maturity of individual securities in STIP allow for the use of weighted average maturity as an effective risk management tool, rather than the more complex measure, effective duration.

Portfolio guidelines for the fixed-income portion of TRIP, UCRS and GEP limit weighted average effective duration to the effective duration of the benchmarks (Barclays Capital U.S. Aggregate Index), plus or minus 20 percent. These portfolio guidelines constrain the potential price movement due to interest rate changes of the portfolio being similar to that of the benchmark. There are similar restrictions for the high-yield and emerging market debt portfolios relative to their benchmarks.

The effective durations for fixed- or variable-income securities at June 30 are as follows:

	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2018	2017	2018	2017	2018	2017
<i>Fixed- or variable-income securities:</i>						
U.S. government-guaranteed:						
U.S. Treasury bills, notes and bonds	2.4	3.1	2.9	2.8	2.7	2.9
U.S. Treasury strips	9.2	11.7	16.5	18.1	10.3	10.6
U.S. TIPS	5.9	2.9			6.1	3.8
U.S. government-backed securities						
U.S. government-backed - asset-backed securities	1.6	2.3	2.9	10.1	2.9	3.1
<i>Other U.S. dollar-denominated:</i>						
Corporate bonds	3.5	2.8	2.7	2.4	5.7	6.1
U.S. agencies	2.0	2.6			2.0	2.1
U.S. agencies - asset-backed securities	4.2	3.9	5.0	4.2	3.9	3.7
Corporate - asset-backed securities	3.9	4.2	2.2	2.1	2.6	2.5
Supranational/foreign	3.6	3.2	3.4	3.8	5.2	5.8
Other	8.5	16.9	5.3	1.8	15.6	15.7
<i>Foreign currency-denominated:</i>						
Corporate	0.6				0.6	
<i>Commingled funds:</i>						
U.S. bond funds*	2.4	2.5	4.6	4.8		1.9
Non-U.S. bond funds	3.4	3.2	5.3	6.9		7.0
Money market funds**			2.0	1.5		

*The University considers the modified durations for commingled funds.

**Foundation and UCRS investment in STIP.

The University considers the effective durations for commercial paper, mortgage loans, insurance contracts and money market funds to be zero. The terms of the mortgage loans include variable interest rates. Insurance contracts can be liquidated without loss of principal and money market funds consist of underlying securities that are of a short-term, liquid nature.

Investments also include various mortgage-backed securities, collateralized mortgage obligations, structured notes, variable-rate securities and callable bonds that may be considered to be highly sensitive to changes in interest rates due to the existence of prepayment or conversion features. The effective durations of these securities, however, may be low.

At June 30, the fair values of such investments are as follows:

(in thousands of dollars)

	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2018	2017	2018	2017	2018	2017
Mortgage-backed securities	\$669,109	\$581,019	\$53,471	\$62,552	\$2,795,428	\$3,094,839
Collateralized mortgage obligations	501,265	142,379	22,540	17,079	830,356	308,119
Other asset-backed securities	271,890	147,305	27,612	14,889	1,266,122	928,928
Variable-rate securities	582,299	401,499			2,413,025	1,674,974
Callable bonds	4,067,934	2,773,741			8,466,784	8,281,157
Convertible bonds	455	317			4,618	2,529
Total	\$6,092,952	\$4,046,260	\$103,623	\$94,520	\$15,776,333	\$14,290,546

Mortgage-Backed Securities. These securities are issued primarily by Fannie Mae, Ginnie Mae and Freddie Mac, and various commercial entities and include short embedded prepayment options. Unanticipated prepayments by the obligees of the underlying asset reduce the total expected rate of return.

Collateralized Mortgage Obligations. Collateralized mortgage obligations (CMOs) generate a return based upon either the payment of interest or principal on mortgages in an underlying pool. The relationship between interest rates and prepayments makes the fair value highly sensitive to changes in interest rates. In falling interest rate environments, the underlying mortgages are subject to a higher propensity of prepayments. In rising interest rate environments, the opposite is true.

Other Asset-Backed Securities. Other asset-backed securities also generate a return based upon either the payment of interest or principal on obligations in an underlying pool, generally associated with auto loans or credit cards. As with CMOs, the relationship between interest rates and prepayments makes the fair value highly sensitive to changes in interest rates.

Variable-Rate Securities. These securities are investments with terms that provide for the adjustment of their interest rates on set dates and are expected to have fair values that will be relatively unaffected by interest rate changes. Variable-rate securities may have limits on how high or low the interest rate may change. These constraints may affect the market value of the security.

Callable Bonds. Although bonds are issued with clearly defined maturities, an issuer may be able to redeem, or call, a bond earlier than its maturity date. The University must then replace the called bond with a bond that may have a lower yield than the original. The call feature causes the fair value to be highly sensitive to changes in interest rates.

At June 30, the effective durations for these securities are as follows:

	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2018	2017	2018	2017	2018	2017
Mortgage-backed securities	4.3	4.0	1.5	4.5	4.1	3.8
Collateralized mortgage obligations	4.7	2.7	8.3	12.5	4.1	2.7
Other asset-backed securities	1.1	1.5	0.2	5.1	0.8	1.0
Variable-rate securities	3.2	1.9			1.6	1.1
Callable bonds	3.3	3.4			3.8	4.0
Convertible bonds	1.7	2.6			1.7	2.5

Foreign Currency Risk

The University's strategic asset allocation policy for TRIP, UCRS and GEP includes allocations to non-U.S. equities and non-dollar-denominated bonds. The benchmarks for these investments are not hedged; therefore foreign currency risk is part of the investment strategies. Portfolio guidelines for U.S. investment-grade fixed-income securities also allow exposure to non-U.S. dollar-denominated bonds up to 10 percent of the total portfolio market value. Exposure to foreign currency risk from these securities is permitted and it may be fully or partially hedged using forward foreign currency exchange contracts. Under the University's investment policies, such instruments are not permitted for speculative use or to create leverage. Similar limits on foreign exchange exposure apply to the high-yield debt and emerging market debt portfolios.

At June 30, the foreign currency risk expressed in U.S. dollars, organized by currency denomination and investment type, are as follows:

(in thousands of dollars)

	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2018	2017	2018	2017	2018	2017
<i>Equity securities:</i>						
Euro	\$960,899	\$759,929	\$259	\$769	\$3,895,404	\$2,986,605
British Pound	272,005	262,100	1,109	1,474	1,988,754	1,499,151
Japanese Yen	438,014	369,665			2,562,213	1,550,471
Canadian Dollar	127,083	144,272	1,918	6,248	722,719	633,561
Swiss Franc	122,133	124,593	634	531	839,277	663,977
Australian Dollar	91,454	103,068	2,915	569	511,526	430,715
Hong Kong Dollar	150,506	128,176			676,822	307,976
Swedish Krona	69,163	69,605			289,024	263,079
Singapore Dollar	18,752	19,405			106,094	81,366
Danish Krone	23,938	23,677			167,934	142,740
Norwegian Krone	14,399	11,842			98,172	57,344
South Korean Won	74,413	84,359	16,337	16,356	482,103	473,711
Brazilian Real	24,203	25,154			74,405	29,725
Indian Rupee	23,632				275,785	256,239
New Taiwan Dollar	57,938	69,843			234,014	204,806
South African Rand	27,963	31,699			153,225	147,473
Thailand Baht	9,046	10,014			106,332	115,393
Mexican Peso	13,332				54,541	
Other	56,409	85,373	83	109	234,769	280,101
Subtotal	2,575,282	2,322,774	23,255	26,056	13,473,113	10,124,433
<i>Fixed-income securities:</i>						
Euro	113				576	
Subtotal	113				576	
<i>Commingled funds (various currency denominations):</i>						
Absolute return funds			835,996	706,875		
Non-U.S. equity funds	2,172,821	2,077,584	1,016,679	980,635	8,958,098	9,264,782
Private equity	7,255	1,029	82,228	67,320	98,116	114,400
Real estate investment trusts			16,402	19,710		
Real assets	32,301	14,304	67,946	49,514	149,441	81,055
Non U.S. bond funds	135,861	132,608	21,697	16,434	14	15
Balanced funds			139,769	129,917		
Subtotal	2,348,238	2,225,525	2,180,717	1,970,405	9,205,669	9,460,252
<i>Investment derivatives:</i>						
Australian Dollar	1	5			58	(10)
Canadian Dollar	32	(3)			59	(40)
British Pound	30	(10)			177	(244)
Japanese Yen	(20)	(52)			(666)	(584)
Hong Kong Dollar						(7)
Euro	120				369	
Other		85			27	(103)
Subtotal	163	25			24	(988)
<i>Publicly traded real estate investment trusts:</i>						
Australian Dollar	11,568	10,092			64,239	44,367
Euro	14,112	9,243			87,183	42,055
British Pound	15,004	7,163			86,648	30,546
Japanese Yen	9,817	9,295			52,635	29,856
South African Rand	1,499	2,578			7,704	10,100
Singapore Dollar	4,059	4,139			21,148	12,441
Canadian Dollar	1,633	1,724			9,360	6,342
Mexican Peso	595	952			2,944	3,047
Other	2,521	2,386			11,232	5,913
Subtotal	60,808	47,572			343,093	184,667
Total exposure to foreign currency risk	\$4,984,604	\$4,595,896	\$2,203,972	\$1,996,461	\$23,022,475	\$19,768,364

The University's Investment Pools

The composition of the University's investments at June 30, 2018, by investment pool, are as follows:

(in thousands of dollars)

	UNIVERSITY OF CALIFORNIA				
	STIP	TRIP	GEP	OTHER	TOTAL
<i>Equity securities:</i>					
Domestic		\$1,747,569	\$1,097,837	\$136,487	\$2,981,893
Foreign		1,422,238	1,109,393	43,652	2,575,283
<i>Fixed- or variable-income securities:</i>					
U.S. government-guaranteed	\$2,284,617	694,153	355,374	65,426	3,399,570
Other U.S. dollar-denominated	8,212,850	3,447,620	904,769	225,563	12,790,802
Foreign currency-denominated			113		113
Commingled funds	62,531	1,517,144	7,545,543	1,045,951	10,171,169
Investment derivatives		(572)	(4,912)	(36)	(5,520)
Publicly traded real estate investment trusts		98,739	120,248	5,049	224,036
Mortgage loans	510,765				510,765
Real estate		126,476	276,569	25,545	428,590
Other investments				27,701	27,701
Subtotal	11,070,763	9,053,367	11,404,934	1,575,338	33,104,402
Campus foundations' investments with the University	(1,395,676)	(26,298)	(981,095)	(208,582)	(2,611,651)
UCRS investment in the STIP	(3,123,754)				(3,123,754)
Total investments	\$6,551,333	\$9,027,069	\$10,423,839	\$1,366,756	\$27,368,997

The composition of the University's investments at June 30, 2017, by investment pool, are as follows:

(in thousands of dollars)

	UNIVERSITY OF CALIFORNIA				
	STIP	TRIP	GEP	OTHER	TOTAL
<i>Equity securities:</i>					
Domestic		\$1,650,101	\$877,439	\$114,238	\$2,641,778
Foreign		1,399,551	880,977	42,246	2,322,774
<i>Fixed- or variable-income securities:</i>					
U.S. government-guaranteed	\$969,940	637,044	491,287	7,694	2,105,965
Other U.S. dollar-denominated	7,667,967	3,390,550	660,701	21,602	11,740,820
Commingled funds	68,175	1,711,540	6,605,800	1,233,267	9,618,782
Investment derivatives		(162)	(73)	(6)	(241)
Publicly traded real estate investment trusts		103,542	44,677	4,417	152,636
Mortgage loans	358,890				358,890
Real estate		137,615	177,927	39,055	354,597
Other investments				12,390	12,390
Subtotal	9,064,972	9,029,781	9,738,735	1,474,903	29,308,391
Campus foundations' investments with the University	(1,048,911)	(26,701)	(918,008)	(157,877)	(2,151,497)
UCRS investment in the STIP	(2,678,532)				(2,678,532)
Total investments	\$5,337,529	\$9,003,080	\$8,820,727	\$1,317,026	\$24,478,362

The total investment returns based upon unit values, representing the combined income plus net appreciation or depreciation in the fair value of investments, for the year ended June 30, 2018 were 4.5 percent for TRIP, 8.9 percent for GEP and 7.8 percent for UCRP. The total investment returns based upon unit values, representing the combined income plus net appreciation or depreciation in the fair value of investments, for the year ended June 30, 2017, were 7.7 percent for TRIP, 15.1 percent for GEP and 14.5 percent for UCRP. The investment return for STIP distributed to participants, representing combined income and realized gains or losses, during the same periods, was 2.0 percent and 1.3 percent, respectively. Other investments consist of numerous, small portfolios of investment or individual securities, each with its own individual rate of return.

Related Party Relationships with the University

UCRS and campus foundations may invest available cash in STIP. Shares are purchased or redeemed in STIP at a constant value of \$1 per share. Actual income earned, including any realized gains or losses on the sale of STIP investments, is allocated to UCRS and campus foundations based upon the number of shares held. Unrealized gains and losses associated with the fluctuation in the fair value of investments included in STIP are recorded by the University as the manager of the pool. The net asset value for STIP is held

at a constant value of \$1 and is not adjusted for unrealized gains and losses associated with the fluctuation in the fair value of investments included in STIP.

The campus foundations may also purchase or redeem shares in GEP, TRIP or other investment pools at the unitized value of the portfolio at the time of purchase or redemption. Actual income earned is allocated to the campus foundations based upon the number of shares held.

Campus Foundations

The campus foundations' cash and cash equivalents and investments that are invested with the University and managed by the Chief Investment Officer are excluded from the University's statement of net position and included in the campus foundations' statement of net position. Under the accounting policies elected by each campus foundation, certain component units classify all or a portion of their investment in STIP and TRIP as cash and cash equivalents, rather than investments. Substantially, all of the campus foundations' investments managed by the Chief Investment Officer are categorized as commingled funds or commingled money market funds by the campus foundations in the composition of investments.

The fair value of the campus foundations' cash and cash equivalents and investments that are invested with the University, by investment pool, at June 30 are as follows:

<i>(in thousands of dollars)</i>	2018	2017
STIP	\$1,398,634	\$1,048,910
TRIP	26,298	26,701
GEP	981,095	918,008
Other investment pools	205,624	157,878
Campus foundations' investments with the University	2,611,651	2,151,497
Classified as cash and cash equivalents by campus foundations	(386,391)	(154,662)
Classified as investments by campus foundations	\$2,225,260	\$1,996,835

Investment income in the University's statement of revenues, expenses and changes in net position is net of income earned by, and distributed to, the campus foundations totaling \$31.8 million and \$21.9 million for the years ended June 30, 2018 and 2017, respectively.

UCRS

UCRS had \$3.1 billion and \$2.7 billion invested in STIP at June 30, 2018 and 2017, respectively. These investments are excluded from the University's statement of net position and are included in UCRS' statement of plans' fiduciary net position. They are categorized as commingled money market funds in the composition of investments for UCRS. STIP investment income in the University's statement of revenues, expenses and changes in net position is net of income earned by, and distributed to, UCRS totaling \$43.4 million and \$31.2 million for the years ended June 30, 2018 and 2017, respectively.

Agency Relationships with the University

STIP and GEP are external investment pools and include investments on behalf of external organizations that are associated with the University, although not financially accountable to the University. These organizations are not required to invest in these pools. Participants purchase or redeem shares in STIP at a constant value of \$1 per share and purchase or redeem shares in GEP at the unitized value of the portfolio at the time of purchase or redemption. Actual income earned is allocated to participants based upon the number of shares held.

The fair value of these investments in each investment pool and the related liability associated with these organizations that are included in the University's statement of net position at June 30 are as follows:

<i>(in thousands of dollars)</i>	2018	2017
STIP	\$95,502	\$103,291
GEP	309,627	259,330
Other investment pools	4,805	
Total agency assets	\$409,934	\$362,621
Funds held for others	\$409,934	\$362,621

The composition of the net position at June 30 for STIP and GEP are as follows:

<i>(in thousands of dollars)</i>	STIP		GEP	
	2018	2017	2018	2017
Investments	\$11,070,763	\$9,064,972	\$11,404,934	\$9,738,735
Investment of cash collateral	126,019	44,176	256,407	342,833
Securities lending collateral	(125,995)	(44,155)	(256,357)	(342,677)
Other assets, net	2,929,104	2,437,063	607,907	850,451
Net position	\$13,999,891	\$11,502,056	\$12,012,891	\$10,589,342

Other assets include amounts receivable for pension benefits from the campuses and medical centers of \$3.0 billion and \$2.7 billion at June 30, 2018 and 2017, respectively.

The changes in net position for STIP and GEP for the year ending June 30 are as follows:

<i>(in thousands of dollars)</i>	STIP		GEP	
	2018	2017	2018	2017
Net position, beginning of year	\$11,502,056	\$10,730,675	\$10,589,342	\$8,929,136
Investment income	227,622	159,038	102,914	92,781
Net appreciation (depreciation) in fair value of investments	(82,872)	(28,695)	887,999	1,309,458
Transfer to TRIP	(416,703)	(60,000)		
Participant contributions, net	2,769,788	701,038	432,636	257,967
Net position, end of year	\$13,999,891	\$11,502,056	\$12,012,891	\$10,589,342

3. SECURITIES LENDING

The University and UCRS jointly participate in a securities lending program as a means to augment income. The campus foundations' investments that are invested with the University and managed by the Chief Investment Officer are included in the University's investment pools that participate in the securities lending program.

The campus foundations' allocated share of the program's cash collateral received, investment of cash collateral and collateral held for securities lending is determined based upon their equity in the investment pools. The Board of Trustees for each campus foundation may also authorize participation in a direct securities lending program.

Securities are lent to selected brokerage firms for which collateral received equals or exceeds the fair value of such investments lent during the period of the loan. Securities loans immediately terminate upon notice by either the University or the borrower. Collateral may be cash or securities issued by the U.S. government or its agencies, or the sovereign or provincial debt of foreign countries. Securities collateral cannot be pledged or sold by the University unless the borrower defaults.

Loans of domestic equities and all fixed-income securities are initially collateralized at 102 percent of the fair value of securities lent. Loans of foreign equities are initially collateralized at 105 percent. All borrowers are required to provide additional collateral by the next business day if the value of the collateral falls to less than 100 percent of the fair value of securities lent.

Cash collateral received from the borrower is invested by lending agents, as agents for the University, in investment pools in the name of the University, with guidelines approved by the University. These investments are shown as investment of cash collateral in the statement of net position. At June 30, 2018 and 2017, the securities in these pools had a weighted average maturity of 15 days and 20 days, respectively. The University records a liability for the return of the cash collateral shown as collateral held for securities lending in the statement of net position. Securities collateral received from the borrower is held in investment pools by the University's custodial bank.

At June 30, 2018 and 2017, the University had insignificant exposure to borrowers because the amounts the University owed the borrowers were substantially the same as the amounts the borrowers owed the University. The University is indemnified by its lending agents against any losses incurred as a result of borrower default.

The composition of the securities lending programs at June 30 are as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2018	2017	2018	2017	2018	2017
SECURITIES LENT						
<i>For cash collateral:</i>						
Equity securities:						
Domestic	\$468,126	\$522,489			\$3,186,668	\$2,789,711
Foreign	3,975	40,881				129,824
Fixed-income securities:						
U.S. government-guaranteed	171,984	73,204			1,744,379	803,431
Other U.S. dollar-denominated	497,720	449,910			1,138,667	2,856,772
Foreign currency-denominated		11,173				109,797
Foundations' share	(45,288)	(42,581)	\$45,288	\$42,581		
Lent for cash collateral	1,096,517	1,055,076	45,288	42,581	6,069,714	6,689,535
<i>For securities collateral:</i>						
Equity securities:						
Domestic	358,657	444,681			3,057,625	3,025,219
Foreign	147,358	271,071			1,242,195	826,781
Fixed-income securities:						
U.S. government-guaranteed	376,684	164,400			3,174,988	2,132,793
Other U.S. dollar-denominated	123,429	77,881			710,653	505,610
Foreign currency-denominated		1,959				15,081
Lent for securities collateral	1,006,128	959,992			8,185,461	6,505,484
Total securities lent	\$2,102,645	\$2,015,068	\$45,288	\$42,581	\$14,255,175	\$13,195,019
COLLATERAL RECEIVED						
Cash	\$1,209,769	\$1,121,899			\$6,157,131	\$6,838,416
Foundations' share	(45,288)	(42,581)	45,288	42,581		
Total cash collateral received	1,164,481	1,079,318	45,288	42,581	6,157,131	6,838,416
Securities	1,095,763	1,032,497			8,914,709	6,992,564
Total collateral received	\$2,260,244	\$2,111,815	\$45,288	\$42,581	\$15,071,840	\$13,830,980
INVESTMENT OF CASH COLLATERAL						
<i>Fixed-income securities:</i>						
Other U.S. dollar-denominated:						
Corporate bonds	\$32,858	\$105,460			\$167,234	\$642,818
Commercial paper	146,215	77,753			744,164	473,932
Repurchase agreements	555,710	309,356			2,828,291	1,885,644
Corporate - asset-backed securities	5,803	28,855			29,534	175,884
Certificates of deposit/time deposits	381,408	542,834			1,941,184	3,308,794
Supranational/foreign	88,252	58,751			449,163	358,112
Other assets (liabilities), net*	(251)	(599)			(1,280)	(3,654)
Foundations' share	(45,288)	(42,581)	\$45,288	\$42,581		
Investment of cash collateral	1,164,707	1,079,829	45,288	42,581	\$6,158,290	\$6,841,530
Less: Current portion	(1,054,406)	(947,353)	(40,999)	(37,357)		
Noncurrent portion	\$110,301	\$132,476	\$4,289	\$5,224		

* Other assets (liabilities), net is comprised of pending settlements of cash collateral investments.

The University earns interest and dividends on the collateral held during the loan period, as well as a fee from the brokerage firm, and is obligated to pay a fee and rebate to the borrower. The University receives the net investment income. The securities lending income and fees and rebates for the year ended June 30 are as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2018	2017	2018	2017	2018	2017
Securities lending income	\$23,743	\$15,628	\$1,008	\$771	\$136,099	\$89,075
Securities lending fees and rebates	(14,785)	(7,124)	(642)	(352)	(89,025)	(40,610)
Securities lending investment income, net	\$8,958	\$8,504	\$366	\$419	\$47,074	\$48,465

Investment Risk Factors

There are a variety of potential risk factors involved in a securities lending program. Risks associated with the investment of cash collateral may include the credit risk from fixed-income securities, concentration of credit risk, interest rate risk and foreign currency risk. In addition, there may be custodial credit risk associated with both cash and securities received as collateral for securities lent.

The University's and UCRS' investment guidelines and other information related to each of these risks are summarized below. Campus foundations that participate in a securities lending program may have their own individual investment policies designed to limit the same risks.

Credit Risk

The University's and UCRS' investment guidelines for the investment of cash collateral maintained in separately managed collateral pools restrict the credit rating of issuers at the time of purchase to no less than A-1, P-1 or F-1 for short-term securities and no less than A2/A for long-term securities. Asset-backed securities must have a rating of AAA at the time of purchase.

The credit risk profile for fixed- or variable-income securities associated with the investment of cash collateral at June 30 are as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2018	2017	2018	2017	2018	2017
<i>Fixed- or variable-income securities:</i>						
Other U.S. dollar-denominated:						
AAA	\$94,055	\$84,224			478,695	513,378
AA-	118,258	146,141			601,875	890,788
A+	10,185	130,473			51,834	795,284
A	243,045	123,225			1,236,981	751,104
A-		50,772				309,473
A-1 / A-2 / P-1 / F-1	188,995	278,819			961,888	1,699,513
Other assets (liabilities) net*: Not rated	(251)	(599)			(1,280)	(3,654)
Campus foundations' share	(45,288)	(42,581)	\$45,288	\$42,581		

* Other assets (liabilities), net is comprised of pending settlements of cash collateral investments.

Custodial Credit Risk

Cash collateral received for securities lent is invested in pools by the University's lending agents. The University's and UCRS' securities related to the investment of cash collateral are registered in the University's name by the lending agents. Securities collateral received for securities lent are held in investment pools by the University's lending agents. As a result, custodial credit risk is remote.

Concentration of Credit Risk

The University's and UCRS' investment guidelines with respect to the concentration of credit risk associated with the investment of cash collateral in the separately managed collateral pools restricts investments in any single issuer of corporate debt securities, time deposits, certificates of deposit, bankers acceptances and money market funds to no more than 5 percent of the portfolio value at the time of purchase. Campus foundations that directly participate in a securities lending program do not have specific investment policies related to concentration of credit risk, although the lending agreements with the agents establish restrictions for the type of investments and minimum credit ratings.

Investments in issuers other than U.S. government-guaranteed securities that represent 5 percent or more of the total investment of cash collateral at June 30 are as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2018	2017	2018	2017
Goldman Sachs & Company	\$73,898	\$63,421	\$376,102	\$386,579
Morgan Stanley & Co LLC	98,530	84,562	501,471	515,438
Nomura Securities International Inc.	63,716		324,284	
RCap Securities Inc.	102,307		520,693	

Interest Rate Risk

The nature of individual securities in the collateral pools allows for the use of weighted average maturity as an effective risk management measure. The University's and UCRS' investment guidelines with respect to the interest rate risk associated with the investment of cash collateral in the separately managed collateral pools requires the weighted average maturity of the entire collateral pool to be less than 120 days. The maturity of securities issued by the U.S. government and asset-backed securities must be less than five years, corporate debt obligations must be less than two years and time deposits must be less than 190 days. Floating rate debt may be used, but it is limited to 65 percent of the market value of the portfolio.

The weighted average maturity expressed in days for fixed- or variable-income securities associated with the investment of cash collateral at June 30 are as follows:

<i>(in days)</i>	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2018	2017	2018	2017
<i>Fixed- or variable-income securities:</i>				
Other U.S. dollar-denominated:				
Corporate bonds	26	38	26	38
Commercial paper	22	19	22	19
Repurchase agreements	6	9	6	9
Corporate-asset-backed securities	20	97	20	97
Certificates of deposit/time deposits	24	19	24	19
Supranational/foreign	16	17	16	17

Investment of cash collateral may include various asset-backed securities, structured notes and variable-rate securities that may be considered to be highly sensitive to changes in interest rates due to the existence of prepayment or conversion features, although the weighted average maturity may be short.

At June 30, the fair value of investments that are considered to be highly sensitive to changes in interest rates are as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2018	2017	2018	2017	2018	2017
Other asset-backed securities	\$94,055	\$87,606			\$478,695	\$533,996
Variable-rate investments	865,249	802,491			4,403,692	4,891,500
Campus foundations' share	(35,905)	(33,767)	\$35,905	\$33,767		
Total	\$923,399	\$856,330	\$35,905	\$33,767	\$4,882,387	\$5,425,496

At June 30, 2018 and 2017, the weighted average maturity expressed in days for asset-backed securities was 16 days and 43 days, respectively and for variable-rate investments was 136 days and 19 days, respectively.

Foreign Currency Risk

The University's and UCRS' investment policy with respect to the foreign currency risk associated with the investment of cash collateral maintained in separate collateral pools restricts investments to U.S. dollar-denominated securities. Therefore, there is no foreign currency risk.

4. DERIVATIVE FINANCIAL INSTRUMENTS

The University may use derivatives including futures, forward contracts, options and interest rate swap contracts as a substitute for investment in equity and fixed-income securities, to reduce the effect of fluctuating foreign currencies on foreign currency-denominated investments, or to limit its exposure of variable-rate bonds to changes in market interest rates. The Board of Trustees for each campus foundation may also authorize derivatives in its investment policy.

The University enters into futures contracts for the purpose of acting as a substitute for investment in equity and fixed-income securities. A futures contract is an agreement between two parties to buy and sell a security or financial index, interest rate or foreign currency at a set price on a future date. They are standardized contracts that can be easily bought and sold and are exchange-traded. Upon entering into such a contract, the University is required to pledge to the broker an amount of cash or securities equal to the minimum initial margin requirements of the exchange on which the contract is traded. Pursuant to the contract, the University agrees to receive from, or pay to, the counterparty an amount of cash equal to the daily fluctuation in the value of the contract. These contracts are settled on a daily basis, with the resulting realized gain or loss included in the statement of revenues, expenses and changes in net position. The settlement amount at the end of each day for each of the contracts, or variation margin, is included in investments and represents the fair value of the contracts.

Forward contracts are similar to futures contracts, although they are not exchange-traded. Foreign currency exchange contracts are forward contracts used to hedge against foreign currency exchange rate risks on non-U.S. dollar-denominated investment securities and to increase or decrease exposure to various foreign currencies.

An option contract gives the University the right, but not the obligation, to buy or sell a specified security or index at a fixed price during a specified period for a nonrefundable fee (the "premium"). The maximum loss to the University is limited to the premium originally paid for covered options. The University initially records premiums paid for the purchase of these options in the statement of net position as an investment which is subsequently adjusted to reflect the fair value of the options, with unrealized gains and losses included in the statement of revenues, expenses and changes in net position.

Rights and warrants provide the holder with the right, but not the obligation, to buy a stock at a predetermined price for a finite period of time. Warrants usually have a longer time period to expiration. The holder of a right or warrant is permitted to buy at a price that may be below the actual market price for that stock. Warrants and rights cease to exist and become worthless if not used by their expiration date.

An interest rate swap is a contractual agreement entered into between the University and a counterparty under which each agrees to exchange periodic fixed or variable payments for an agreed period of time based upon a notional amount of principal or value of the underlying contract. The payments correspond to an equity index, an interest rate or to currency. A credit default swap is an agreement whereby the seller will compensate the buyer in the event of a loan default. A swaption is an option granting its owner the right but not the obligation to enter into an underlying swap. The University considers its futures, forward contracts, options, credit default swaps, swaptions, rights, warrants and certain interest rate swaps to be investment derivatives.

As a means to lower the University's borrowing costs, when compared against fixed-rate bonds at the time of issuance, the University entered into interest rate swap agreements in connection with certain of its variable-rate Medical Center Pooled Revenue Bonds and General Revenue Bonds. The University determined that certain of its interest rate swaps are derivative instruments that meet the criteria for an effective hedge. Certain of the interest rate swaps are considered hybrid instruments since, at the time of execution, the fixed rate on each of the swaps was off-market and the University received an up-front payment. As such, these swaps are comprised of a derivative instrument, an at-the-market swap that is an effective hedge, and a companion instrument, a borrowing represented by the up-front payment. The unamortized amount of the borrowing under the companion instruments was \$75.2 million and \$79.0 million at June 30, 2018 and 2017, respectively.

The fair value balances and notional amounts of derivative instruments outstanding at June 30, categorized by type, and the changes in fair value of such derivatives are as follows:

University of California

(in thousands of dollars)

CATEGORY	NOTIONAL AMOUNT		FAIR VALUE-POSITIVE (NEGATIVE)			CHANGES IN FAIR VALUE		
	2018	2017	CLASSIFICATION	2018	2017	CLASSIFICATION	2018	2017
INVESTMENT DERIVATIVES								
<i>Futures contracts:</i>								
Domestic equity futures:								
Long positions	\$211,945	\$21	Investments	(\$5,755)	(\$360)	Net appreciation (depreciation)	(\$5,789)	(\$361)
Short positions			Investments			Net appreciation (depreciation)		
Foreign equity futures:								
Long positions	6,492	78	Investments	15	(47)	Net appreciation (depreciation)	8,090	7,998
Short positions			Investments			Net appreciation (depreciation)		(17,090)
Futures contracts, net				(5,740)	(407)		2,301	(9,453)
<i>Foreign currency exchange contracts, net*:</i>								
Long positions	1,636	217,069	Investments	(15)	(46)	Net appreciation (depreciation)	(1)	6,800
Short positions			Investments			Net appreciation (depreciation)	(7)	15,053
Foreign currency exchange contracts, net				(15)	(46)		(8)	21,853
<i>Other:</i>								
Stock rights/warrants		680	Investments	235	212	Net appreciation (depreciation)	38	22
Other, net				235	212		38	22
Total investment derivatives				(\$5,520)	(\$241)		\$2,331	\$12,422
CASH FLOW HEDGES								
<i>Effective interest rate swaps:</i>								
Pay fixed, receive variable	\$838,850	\$842,315	Other assets (liabilities)	(\$54,839)	(\$90,232)	Deferred (inflows) outflows	\$35,393	\$61,891

*Notional amount reported in local currency.

University of California Campus Foundations

(in thousands of dollars)

CATEGORY	NOTIONAL AMOUNT		FAIR VALUE-POSITIVE (NEGATIVE)			CHANGES IN FAIR VALUE		
	2018	2017	CLASSIFICATION	2018	2017	CLASSIFICATION	2018	2017
INVESTMENT DERIVATIVES								
Options/swaptions	\$54,231	\$50,658	Investments	(\$355)	\$7	Net appreciation (depreciation)	\$3,168	\$692
Swaps	250,603	226,752	Investments		1,988	Net appreciation (depreciation)	16,090	32,340
Total investment derivatives				(\$355)	\$1,995		\$19,258	\$33,032

University of California Retirement System

(in thousands of dollars)

CATEGORY	NOTIONAL AMOUNT		FAIR VALUE—POSITIVE (NEGATIVE)			CHANGES IN FAIR VALUE		
	2018	2017	CLASSIFICATION	2018	2017	CLASSIFICATION	2018	2017
INVESTMENT DERIVATIVES								
<i>Futures contracts:</i>								
Domestic equity futures:								
Long positions	\$926,476	\$8,688	Investments	(\$20,156)	(\$2,323)	Net appreciation (depreciation)	(\$19,697)	(\$2,323)
Short positions	(16,189)	(17,400)	Investments	665	(19)	Net appreciation (depreciation)	947	(19)
Foreign equity futures:								
Long positions	58,219	1,237	Investments	(924)	(1,060)	Net appreciation (depreciation)	61,531	126,127
Short positions	(11,875)		Investments	77		Net appreciation (depreciation)	(1,077)	(10,495)
Futures contracts, net				(20,338)	(3,402)		41,704	113,290
<i>Foreign currency exchange contracts, net*:</i>								
Long positions	35,282	2,482,250	Investments	(320)	(528)	Net appreciation (depreciation)	7,332	26,347
Short positions		(1,611)	Investments		(26)	Net appreciation (depreciation)	(10,695)	55,504
Foreign currency exchange contracts, net				(320)	(554)		(3,363)	81,851
<i>Other:</i>								
Stock rights/warrants	2	1,583	Investments	1,516	954	Net appreciation (depreciation)	332	(33)
Other, net				1,516	954		332	(33)
Total investment derivatives				(\$19,142)	(\$3,002)		\$38,673	\$195,108

*Notional amount reported in local currency.

Objectives and Terms of Hedging Derivative Instruments

The objectives and terms of the hedging derivative instruments outstanding at June 30, along with the credit rating of the associated counterparty, are as follows:

(in thousands of dollars)

TYPE	OBJECTIVE	NOTIONAL AMOUNT		EFFECTIVE DATE	MATURITY DATE	CASH PAID OR RECEIVED	TERMS	COUNTERPARTY CREDIT RATING	FAIR VALUE	
		2018	2017						2018	2017
UNIVERSITY OF CALIFORNIA										
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds	\$64,075	\$67,540	2007	2032	None	Pay fixed 3.5897%; receive 58% of 1-Month LIBOR* plus 0.48%	Aa3/A+	(\$6,435)	(\$9,423)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds	124,775	124,775	2016	2030 through 2043	None	Pay fixed 4.6359%; receive 67% of 3-Month LIBOR* plus 0.69%**	Aa2/A+	(31,577)	(40,420)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate General Revenue Bonds	400,000	400,000	2013	2023	None	Pay fixed 1.8982%; receive 70% of 1-Month LIBOR*	Aa2/AA-	466	(12,552)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate General Revenue Bonds	100,000	100,000	2013	2023	None	Pay fixed 1.9057%; receive 70% of 1-Month LIBOR*	Aa2/AA-	80	(3,182)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate General Revenue Bonds	100,000	100,000	2013	2023	None	Pay fixed 1.8980%; receive 70% of 1-Month LIBOR*	Aa2/A+	118	(3,137)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds	24,250	24,250	2016	2045	None	Pay fixed 4.741%; receive 67% of 3-Month LIBOR* +0.79%	Aa2/A+	(8,307)	(10,252)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds	25,750	25,750	2016	2047	None	Pay fixed 4.741%; receive 67% of 3-Month LIBOR* +0.79%	Aa2/A+	(9,184)	(11,266)
Interest rate swaps, net		\$838,850	\$842,315						(\$54,839)	(\$90,232)

*London Interbank Offered Rate (LIBOR).

**Weighted average spread.

Hedging Derivative Instrument Risk Factors

Credit Risk

The University could be exposed to credit risk if the interest rate swap counterparties to the contracts are unable to meet the terms of the contracts. Contracts with positive fair values are exposed to credit risk. The University faces a maximum possible loss equivalent to the amount of the derivative's fair value, less any collateral held by the University provided by the counterparty. Contracts with negative fair values are not exposed to credit risk.

Although the University has entered into the interest rate swaps with creditworthy financial institutions to hedge its variable-rate debt, there is credit risk for losses in the event of non-performance by counterparties or unfavorable interest rate movements.

There are no collateral requirements related to the interest rate swap with the \$64.1 million notional amount. Depending on the fair value and the counterparty credit rating for the swaps related to the Medical Center Pooled Revenue Bonds with the counterparty that is currently rated Aa2/A+ with a combined notional amount of \$174.8 million, the University may be entitled to receive collateral to the extent the positive fair value exceeds \$20.0 million as of June 30, 2018. At June 30, 2018 and 2017, there was no collateral required.

Depending on the fair value and the counterparty credit rating for the swaps related to the General Revenue Bonds with the counterparty that is currently rated Aa2/AA- with a combined notional amount of \$500.0 million, the University may be entitled to receive collateral to the extent the positive fair value with the counterparty exceeds \$30.0 million. At June 30, 2018 and 2017, there was no collateral required.

Depending on the fair value and the counterparty credit rating for the swap related to the General Revenue Bonds with the counterparty that is currently rated Aa2/A+ with a notional amount of \$100.0 million, the University may be entitled to receive collateral to the extent the positive fair value with the counterparty exceeds \$20.0 million. At June 30, 2018 and 2017, there was no collateral required.

Interest Rate Risk

There is a risk that the value of the interest rate swaps will decline because of changing interest rates. The values of the interest rate swaps with longer maturities tend to be more sensitive to changing interest rates and, therefore, more volatile than those with shorter maturities.

Basis Risk

There is a risk that the basis for the variable payment received on interest rate swaps will not match the variable payment on the bonds. This exposes the University to basis risk whenever the interest rates on the bonds are reset. The interest rate on the bonds is a tax-exempt interest rate, while the basis of the variable receipt on the interest rate swaps is taxable. Tax-exempt interest rates can change without a corresponding change in the LIBOR rate due to factors affecting the tax-exempt market which do not have a similar effect on the taxable market. However, there is no basis or tax risk related to the swap with the \$149.0 million notional amount since the variable rate the University pays to the bondholders matches the variable-rate payments received from the swap counterparty and the interest rates are reset at the same intervals.

Termination Risk

There is termination risk for interest rate swaps associated with variable-rate bonds in the event of non-performance by counterparties in an adverse market resulting in cancellation of the synthetic interest rate and returning the interest rate payments to the variable interest rates on the bonds. In addition, depending on the agreement, certain interest rate swaps may be terminated if a counterparty's credit quality rating, as issued by Moody's or Standard & Poor's, falls below certain thresholds. For the interest rate swap with the \$64.1 million notional amount, the termination threshold is reached when the credit quality rating for either the underlying Medical Center Pooled Revenue Bonds or swap counterparty falls below Baa2 or BBB. For the swaps with the combined \$174.8 million notional amount, the termination threshold is reached when the credit quality rating for the underlying Medical Center Pooled Revenue Bonds falls below Baa3/BBB-, or the interest rate swap counterparty's rating falls below Baa2 or BBB.

For the swaps with notional amounts of \$400.0 million and \$100.0 million with a counterparty that is currently rated Aa2/AA-, the termination threshold is reached when the credit quality rating for the underlying General Revenue Bonds falls below Baa2 or BBB, or the swap counterparty's rating falls below A3 or A-. For the swap with a notional amount of \$100.0 million with a counterparty that is currently rated Aa2/A+, the termination threshold is reached when the credit quality rating for the underlying General Revenue Bonds falls below Baa2 or BBB, or the swap counterparty's rating falls below A3 or A-. Upon termination, the University may also owe a termination payment if there is a realized loss based on the fair value of each interest rate swap.

Rollover Risk

The University is exposed to rollover risk on hedging derivative instruments that are hedges of debt that mature or may be terminated prior to the maturity of the hedged debt. When these hedging derivative instruments terminate, the University will be re-exposed to the risks being hedged by the hedging derivative instruments. The University is exposed to rollover risk on the interest rate swaps that mature in October 2023 because the hedged debt is scheduled to mature in May 2048.

5. FAIR VALUE

Fair value is defined in the accounting standards as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Assets and liabilities reported at fair value are organized into a hierarchy based on the levels of inputs observable in the marketplace that are used to measure fair value. Inputs are used in applying the various valuation techniques and take into account the assumptions that market participants use to make valuation decisions. Inputs may include price information, credit data, liquidity statistics and other factors specific to the financial instrument. Observable inputs reflect market data obtained from independent sources. In contrast, unobservable inputs reflect the entity's assumptions about how market participants would value the financial instrument.

A financial instrument's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. The following describes the hierarchy of inputs used to measure fair value and the primary valuation methodologies used for financial instruments measured at fair value on a recurring basis:

Level 1 – Prices based on unadjusted quoted prices in active markets that are accessible for identical assets or liabilities are classified as Level 1. Level 1 investments include equity securities and other publicly traded securities.

Level 2 – Quoted prices in markets that are not considered to be active, dealer quotations or alternative pricing sources for similar assets or liabilities for which all significant inputs are observable, either directly or indirectly, are classified as Level 2. Level 2 investments include fixed- or variable-income securities, commingled funds, certain derivatives and other assets that are valued using market information.

Level 3 – Investments and other assets classified as Level 3 have significant unobservable inputs, as they trade infrequently or not at all. The inputs into the determination of fair value of these investments and other assets are based upon the best information in the circumstance and may require significant management judgment. Level 3 financial instruments include private equity investments, real estate and beneficial interests in irrevocable split-interest agreements.

Net Asset Value (NAV) – Investments whose fair value is measured at NAV are excluded from the fair value hierarchy. Investments in non-governmental entities that do not have a readily determinable fair value may be valued at NAV. Investments measured at NAV include hedge funds, private equity investments and commingled funds.

Not Leveled – Cash and cash equivalents are not measured at fair value and, thus, are not subject to the fair value disclosure requirements.

The following tables summarize the investments and other assets reported at fair value within the fair value hierarchy as of June 30, 2018:

UNIVERSITY OF CALIFORNIA						
	Total	Quoted Prices in Active Markets	Other Observable Inputs	Unobservable Inputs	Net Asset Value	Not Levelled
<i>(in thousands of dollars)</i>		(Level 1)	(Level 2)	(Level 3)	(NAV)	
Equity securities	\$5,557,176	\$5,551,780		\$5,396		
Fixed- or variable-income securities:						
U.S. government-guaranteed	3,399,570	57,592	\$3,341,978			
Other U.S. dollar-denominated	12,790,802	217,954	12,483,517	89,331		
Foreign currency-denominated	113		113			
Commingled funds	10,171,169	796,878	62,531	72,717	\$9,205,816	\$33,227
Investment derivatives	(5,520)	234	(5,754)			
Publicly traded real estate investment trusts	224,036	224,036				
Mortgage loans	510,765			510,765		
Real estate	428,590			25,562	403,028	
Other investments	27,701	13,750		13,951		
Campus foundations' investments with the University	(2,611,651)					(2,611,651)
UCRS investment in STIP	(3,123,754)					(3,123,754)
Total investments	27,368,997	6,862,224	15,882,385	717,722	9,608,844	(5,702,178)
Securities lending investments of cash collateral	\$1,164,707		\$1,164,958			(\$251)
Investments held by trustees	\$415,164				\$382,162	\$33,002
Beneficial interests included in other noncurrent assets	\$55,440			\$55,440		

CAMPUS FOUNDATIONS						
	Total	Quoted Prices in Active Markets	Other Observable Inputs	Unobservable Inputs	Net Asset Value	Not Levelled
<i>(in thousands of dollars)</i>		(Level 1)	(Level 2)	(Level 3)	(NAV)	
Equity securities	\$281,594	\$266,168	\$5,147	\$10,265	\$14	
Fixed- or variable-income securities:						
U.S. government-guaranteed	386,667		386,667			
Other U.S. dollar-denominated	130,192	666	129,472	54		
Commingled funds	8,069,041	692,240	351	1,511	\$7,352,650	\$22,289
Investment derivatives	(355)		(355)			
Real estate	135,731		3,709	54,224	77,798	
Other investments	236,710	5,161		38,202	191,959	1,388
Total investments	\$9,239,580	\$964,235	\$524,991	\$104,256	\$7,622,421	\$23,677
Securities lending investments of cash collateral	\$45,288		\$45,297			(\$9)
Beneficial interests included in other noncurrent assets	\$75,132			\$75,132		

UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM						
	Total	Quoted Prices in Active Markets	Other Observable Inputs	Unobservable Inputs	Net Asset Value	Not Levelled
<i>(in thousands of dollars)</i>		(Level 1)	(Level 2)	(Level 3)	(NAV)	
Equity securities	\$33,324,912	\$32,764,711		\$1,282	\$558,919	
Fixed- or variable-income securities:						
U.S. government-guaranteed	5,881,270		\$5,881,270			
Other U.S. dollar-denominated	18,110,994	365,653	17,745,294	47		
Foreign currency-denominated	576		576			
Commingled funds	30,197,232	5,064,965	2,115		25,461,548	(\$331,396)
Investment derivatives	(19,142)	1,516	(20,658)			
Publicly traded real estate investment trusts	1,711,685	1,711,685				
Real estate	1,665,191				1,665,191	
Total investments	\$90,872,718	\$39,908,530	\$23,608,597	\$1,329	\$27,685,658	(\$331,396)
Securities lending investments of cash collateral	\$6,158,290		\$6,159,570			(\$1,280)

The following tables summarize the investments and other assets reported at fair value within the fair value hierarchy as of June 30, 2017:

UNIVERSITY OF CALIFORNIA						
	Total	Quoted Prices in Active Markets	Other Observable Inputs	Unobservable Inputs	Net Asset Value	Not Levelled
<i>(in thousands of dollars)</i>		(Level 1)	(Level 2)	(Level 3)	(NAV)	
Equity securities	\$4,964,552	\$4,875,376		\$22,941	\$66,235	
Fixed- or variable-income securities:						
U.S. government-guaranteed	2,105,965		\$2,105,965			
Other U.S. dollar-denominated	11,740,820		11,617,785	123,035		
Commingled funds	9,618,782	981,669	106	393,441	8,242,947	\$619
Investment derivatives	(241)	(195)	(46)			
Publicly traded real estate investment trusts	152,636	152,636				
Mortgage loans	358,890			358,890		
Real estate	354,597			42,817	311,780	
Other investments	12,390			12,390		
Campus foundations' investments with the University	(2,151,497)					(2,151,497)
UCRS investment in STIP	(2,678,532)					(2,678,532)
Total investments	\$24,478,362	\$6,009,486	\$13,723,810	\$953,514	\$8,620,962	(\$4,829,410)
Securities lending investments of cash collateral	\$1,079,829		\$1,080,405			(\$576)
Investments held by trustees	\$99,025				\$60,194	\$38,831
Beneficial interests included in other noncurrent assets	\$56,554			\$56,554		

CAMPUS FOUNDATIONS						
	Total	Quoted Prices in Active Markets	Other Observable Inputs	Unobservable Inputs	Net Asset Value	Not Levelled
<i>(in thousands of dollars)</i>		(Level 1)	(Level 2)	(Level 3)	(NAV)	
Equity securities	\$250,611	\$235,916	\$4,103	\$10,575	\$17	
Fixed- or variable-income securities:						
U.S. government-guaranteed	382,064		382,064			
Other U.S. dollar-denominated	133,053	654	132,344	55		
Commingled funds	6,998,384	650,644	389	1,330	6,322,655	\$23,366
Investment derivatives	1,995		1,995			
Real estate	119,516		3,819	49,569	66,128	
Other investments	321,367	7,151		158,326	153,702	2,188
Total investments	\$8,206,990	\$894,365	\$524,714	\$219,855	\$6,542,502	\$25,554
Securities lending investments of cash collateral	\$42,581		\$39,260	\$3,321		
Beneficial interests included in other noncurrent assets	\$71,330			\$71,330		

UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM						
	Total	Quoted Prices in Active Markets	Other Observable Inputs	Unobservable Inputs	Net Asset Value	Not Levelled
<i>(in thousands of dollars)</i>		(Level 1)	(Level 2)	(Level 3)	(NAV)	
Equity securities	\$29,433,121	\$28,589,132		\$1,181	\$842,808	
Fixed- or variable-income securities:						
U.S. government-guaranteed	5,152,518		\$5,152,518			
Other U.S. dollar-denominated	17,326,645		17,275,601	51,044		
Commingled funds	28,107,964	3,676,570	1,898	275,890	24,153,119	\$487
Investment derivatives	(3,002)	(2,448)	(554)			
Publicly traded real estate investment trusts	722,541	722,541				
Real estate	1,834,232			10,096	1,824,136	
Total investments	\$82,574,019	\$32,985,795	\$22,429,463	\$338,211	\$26,820,063	\$487
Securities lending investments of cash collateral	\$6,841,530		\$6,845,184			(\$3,654)

The following table presents significant terms of certain investments at June 30, 2018:

<i>(in thousands of dollars)</i>				
UNIVERSITY OF CALIFORNIA				
Investment Type	Fair Value	Unfunded Commitments	Remaining Life (Years)	Redemption Terms and Restrictions
Absolute return	\$3,957,859	\$543,569	0 to 5	Not eligible for redemption and lock-up provisions ranging from 0 to 3 years. For securities not eligible for redemption the underlying assets are estimated to be liquidated within 3 to 5 years. For securities eligible for redemptions, after initial lock-up expires, redemptions are available on a rolling basis and require 5 to 95 days' prior notification.
Private equity	1,701,059	1,568,945	0 to 15	Not eligible for redemption.
Real assets	381,533	551,803	0 to 15	Not eligible for redemption.
Real estate and real estate investment trusts	738,709	455,525	0 to 10	Closed end funds not eligible for redemption. Open end funds are generally redeemable within 0-90 days.
U.S. equity funds	193,547			Redemptions generally require at least 0-90 days written notice of intention to terminate as of a date specified in the notice. Payments of withdrawal requests are generally made within 0-120 days.
Balanced funds	234,375			Redemptions require at least twelve months prior written notice of intention to terminate as of a date specified in the notice. Withdrawals will occur on the last business day of the month and are subject to certain withdrawal guidelines.

<i>(in thousands of dollars)</i>				
CAMPUS FOUNDATIONS				
Investment Type	Fair Value	Unfunded Commitments	Remaining Life (Years)	Redemption Terms and Restrictions
Absolute return	\$2,589,828	\$94,494	0 to 12	Generally, lock-up provisions ranging from 0 to 12 years. After initial lock-up expires, redemptions are available require 0 to 180 days' prior notification.
Private equity	954,534	729,801	0 to 15	Generally, lock-up provisions ranging from 0 to 15 years. After initial lock-up expires, redemptions are available require 30 days' prior notification.
Other investments	236,710	79,436	0 to 10	Generally, lock-up provisions ranging from 0 to 10 years. After initial lock-up expires, redemptions are available require 30 days' prior notification.
Real estate and real estate investment trusts	297,842	87,322	9	Not eligible for redemption.

<i>(in thousands of dollars)</i>				
UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM				
Investment Type	Fair Value	Unfunded Commitments	Remaining Life (Years)	Redemption Terms and Restrictions
Absolute return	\$4,475,682	\$750,319	0 to 5	Not eligible for redemption and lock-up provisions ranging from 0 to 3 years. For securities not eligible for redemption the underlying assets are estimated to be liquidated within 3 to 5 years. For securities eligible for redemptions, after initial lock-up expires, redemptions are available on a rolling basis and require 5 to 95 days' prior notification.
Private equity	3,178,252	3,721,105	0 to 15	Not eligible for redemption.
Real assets	1,146,296	952,555	0 to 15	Not eligible for redemption.
U.S. equity funds	4,069,653			Redemptions generally require at least 0-90 days written notice of intention to terminate as of a date specified in the notice. Payments of withdrawal requests are generally made within 0-120 days.
Real estate and real estate investment trusts	3,140,611	1,061,649	0 to 10	Closed end funds not eligible for redemption. Open end funds are generally redeemable within 0-90 days.

6. INVESTMENTS HELD BY TRUSTEES

The University has entered into agreements with trustees to maintain trusts for the University's self-insurance programs, long-term debt requirements, capital projects and certain other requirements. In addition, the state of California retained on deposit certain proceeds from the sale of lease-revenue bonds to be used for capital projects.

Self-Insurance Programs

Investments held by trustees for self-insurance programs include bank accounts for the workers' compensation, general liability and professional medical and hospital liability programs. Cash held by the trustee in the name of the University totaled \$10.9 million and \$23.0 million at June 30, 2018 and 2017, respectively.

Long-Term Debt

Investments held by trustees for future payment of principal and interest in accordance with various indenture and other long-term debt requirements totaled \$12.9 million and \$6.7 million at June 30, 2018 and 2017, respectively. Securities held by trustees are held in the name of the University and these trust agreements permit trustees to invest in U.S. and state government or agency obligations, commercial paper or other corporate obligations meeting certain credit rating requirements.

Capital Projects

Proceeds from the sale of the state of California's lease revenue bonds to be used for financing certain University capital projects were deposited in a commingled U.S. bond fund managed by the state of California Treasurer's Office, as trustee, and distributed to the University as the projects are constructed. The fair value of these deposits was \$2.6 million and \$5.0 million at June 30, 2018 and 2017, respectively.

In addition, proceeds from the sale of bonds and certain University funds are held by trustees to be used for financing and operating third-party capital projects. The fair value of these investments was \$385.7 million and \$63.1 million at June 30, 2018 and 2017, respectively. Substantially, all of these investments are of a highly liquid, short-term nature.

7. ACCOUNTS RECEIVABLE

Accounts receivable and the allowance for uncollectible accounts are as follows:

(in thousands of dollars)

	UNIVERSITY OF CALIFORNIA							UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS
	STATE AND FEDERAL GOVERNMENT	MEDICAL CENTERS	INVESTMENT INCOME	PRIVATE GRANTS AND CONTRACTS	MEDICAL PROFESSIONAL FEES	OTHER	TOTAL	
<i>At June 30, 2018</i>								
Accounts receivable	\$730,025	\$2,239,409	\$66,905	\$438,819	\$413,682	\$640,109	\$4,528,949	\$13,102
Allowance for uncollectible accounts	(6,382)	(265,029)		(23,359)	(140,118)	(32,173)	(467,061)	
Accounts receivable, net	\$723,643	\$1,974,380	\$66,905	\$415,460	\$273,564	\$607,936	\$4,061,888	\$13,102
<i>At June 30, 2017</i>								
Accounts receivable	\$693,453	\$1,931,470	\$47,138	\$318,964	\$345,098	\$990,061	\$4,326,184	\$40,012
Allowance for uncollectible accounts	(2,658)	(223,461)		(26,219)	(95,163)	(31,792)	(379,293)	
Accounts receivable, net	\$690,795	\$1,708,009	\$47,138	\$292,745	\$249,935	\$958,269	\$3,946,891	\$40,012

The University's other accounts receivable are primarily related to investment sales, tuition and fees, auxiliary enterprises, insurance rebates and legal settlements.

The campus foundations' accounts receivable are primarily related to investment income.

Uncollectible accounts have decreased the following revenues for the years ended June 30:

(in thousands of dollars)

	UNIVERSITY OF CALIFORNIA	
	2018	2017
Student tuition and fees	(\$1,002)	(\$6,528)
Grants and contracts:		
Federal	(4,656)	(1,509)
State	(778)	25
Private	73	(11,515)
Local	(40)	32
Medical centers	(255,445)	(221,508)
Educational activities	(9,994)	(22,630)
Auxiliary enterprises	101	(1,441)
Other operating revenues	(2,041)	(1,357)
Expense for uncollectible accounts	(\$273,782)	(\$266,431)

Retirement System Contribution

The state of California agreed to make contributions related to certain prior years to the University for UCRP in annual installments over 30 years. During each of the years ended June 30, 2018 and 2017, under the terms of these agreements, the state of California contributed \$5.3 million, including interest at 8.5 percent. At June 30, 2018 and 2017, the remaining amount owed to UCRP by the state was \$9.4 million and \$13.6 million, respectively. These amounts are recorded in the University's statement of net position as a receivable from the state of California and as a liability owed to UCRP.

8. PLEDGES RECEIVABLE

The composition of pledges receivable at June 30 is summarized as follows:

(in thousands of dollars)

	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS	
	2018	2017	2018	2017
Total pledges receivable outstanding	\$67,676	\$72,315	\$1,208,349	\$1,064,512
Less: Unamortized discount to present value	(632)	(896)	(136,882)	(137,406)
Allowance for uncollectible pledges	(9,305)	(15,207)	(65,284)	(61,127)
Total pledges receivable, net	57,739	56,212	1,006,183	865,979
Less: Current portion of pledges receivable	(25,049)	(23,181)	(234,294)	(192,484)
Noncurrent portion of pledges receivable	\$32,690	\$33,031	\$771,889	\$673,495

Future receipts under pledge agreements for each of the five fiscal years subsequent to June 30, 2018 and thereafter are as follows:

(in thousands of dollars)

	UNIVERSITY OF CALIFORNIA	UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS
<i>Year Ending June 30</i>		
2019	\$32,885	\$256,919
2020	15,984	183,296
2021	7,473	136,931
2022	8,464	97,523
2023	1,270	84,030
2024-2028	350	212,735
Beyond 2028	1,250	236,915
Total payments on pledges receivable	\$67,676	\$1,208,349

Adjustments to the allowance for uncollectible pledges for the University have increased (decreased) the following revenues for the years ended June 30, 2018 and 2017:

<i>(in thousands of dollars)</i>	2018	2017
Private gifts	(\$4,096)	(\$863)
Capital gifts and grants		(25)

9. NOTES AND MORTGAGES RECEIVABLE

Notes and mortgages receivable at June 30, 2018 and 2017 along with the allowance for uncollectible amounts, are as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA				UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		
	CURRENT	NONCURRENT		TOTAL	CURRENT	NONCURRENT	TOTAL
		NOTES	MORTGAGES				
<i>At June 30, 2018</i>							
Notes and mortgages receivable	\$77,411	\$387,236	\$19,105	\$406,341	\$181	\$250	\$431
Allowance for uncollectible amounts	(8,929)	(19,885)	(114)	(19,999)			
Notes and mortgages receivable, net	\$68,482	\$367,351	\$18,991	\$386,342	\$181	\$250	\$431
<i>At June 30, 2017</i>							
Notes and mortgages receivable	\$58,338	\$309,459	\$22,301	\$331,760	\$6	\$427	\$433
Allowance for uncollectible amounts	(8,201)	(17,621)	(121)	(17,742)			
Notes and mortgages receivable, net	\$50,137	\$291,838	\$22,180	\$314,018	\$6	\$427	\$433

10. DOE NATIONAL LABORATORY CONTRACTS

Los Alamos National Security, LLC (LANS)

LANS operates and manages the DOE's LANL. LANS' current earnings or losses are dependent on the percentage of base and incentive fees earned under the terms of the contract, offset by any unallowable or disallowed costs. While the University has a 50-percent membership interest in LANS, its equity in the current earnings or losses is subject to certain limitations and special allocations of both the fees and costs. As a result, the University's equity in the current earnings or losses may range from 17.0 to 50.0 percent. For the years ended June 30, 2018 and 2017, the University recorded \$14.4 million and \$13.5 million, respectively, as its equity in the current earnings of LANS and received \$16.7 million and \$17.6 million, respectively, in cash distributions.

Subsequent Event

The University is a member of Triad National Security, LLC (Triad) with two other organizations. Effective November 1, 2018, Triad will assume the management and operations of LANL under a contract with the DOE.

Lawrence Livermore National Security, LLC (LLNS)

LLNS manages and operates the DOE's LLNL. LLNS' current earnings or losses are dependent on the percentage of base and incentive fees earned under the terms of the contract, offset by any unallowable or disallowed costs. While the University has a 50-percent membership interest in LLNS, its equity in the current earnings or losses is 36.3 percent as of June 30, 2018 and 2017, respectively. For the years ended June 30, 2018 and 2017, the University recorded \$12.2 million and \$11.5 million, respectively, as its equity in the current earnings of LLNS and received \$12.2 million and \$11.1 million, respectively, in cash distributions.

11. CAPITAL ASSETS

The University's capital asset activity for the years ended June 30 is as follows:

(in thousands of dollars)

	2016	ADDITIONS	DISPOSALS	2017	ADDITIONS	DISPOSALS	2018
ORIGINAL COST							
Land	\$1,163,095	\$9,551	(\$9,735)	\$1,162,911	\$45,985	(\$17,768)	\$1,191,128
Infrastructure	663,873	30,987		694,860	49,827	(6,687)	738,000
Buildings and improvements	35,428,593	2,604,022	(7,292)	38,025,323	1,823,695	(26,959)	39,822,059
Equipment, software and intangibles	7,171,492	696,869	(259,278)	7,609,083	1,157,142	(256,657)	8,509,568
Libraries and collections	4,060,109	154,873	(62,294)	4,152,688	147,676	(24,460)	4,275,904
Special collections	434,738	25,254	(36)	459,956	71,303	(103)	531,156
Construction in progress	3,065,029	(544,879)		2,520,150	411,104		2,931,254
Capital assets, at original cost	\$51,986,929	\$2,976,677	(\$338,635)	\$54,624,971	\$3,706,732	(\$332,634)	\$57,999,069
	2016	DEPRECIATION AND AMORTIZATION	DISPOSALS	2017	DEPRECIATION AND AMORTIZATION	DISPOSALS	2018
ACCUMULATED DEPRECIATION AND AMORTIZATION							
Infrastructure	\$348,605	\$23,093		\$371,698	\$23,774	(\$4,431)	\$391,041
Buildings and improvements	14,157,451	1,167,408	(\$5,998)	15,318,861	1,212,499	(26,609)	16,504,751
Equipment, software and intangibles	4,800,503	588,597	(224,314)	5,164,786	658,487	(223,448)	5,599,825
Libraries and collections	2,991,555	130,772	(22,454)	3,099,873	132,583	(54,111)	3,178,345
Accumulated depreciation and amortization	22,298,114	1,909,870	(252,766)	23,955,218	2,027,343	(308,599)	25,673,962
Capital assets, net	\$29,688,815			\$30,669,753			\$32,325,107

Service concession arrangements, reported as buildings and improvements, are \$202.1 million of original cost and \$25.6 million of accumulated depreciation at June 30, 2018. Service concession arrangements, reported as buildings and improvements, are \$118.2 million of original cost and \$22.5 million of accumulated depreciation at June 30, 2017.

12. SELF-INSURANCE, OBLIGATIONS UNDER LIFE INCOME AGREEMENTS AND OTHER LIABILITIES

The University's self-insurance, obligations under life income agreements and other liabilities at June 30, 2018 and 2017 are as follows:

	UNIVERSITY OF CALIFORNIA				UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS			
	2018		2017		2018		2017	
(in thousands of dollars)	CURRENT	NONCURRENT	CURRENT	NONCURRENT	CURRENT	NONCURRENT	CURRENT	NONCURRENT
Self-insurance programs	\$392,634	<u>\$584,186</u>	\$276,480	<u>\$584,232</u>				
Obligations under life income agreements	1,474	<u>\$35,293</u>	1,601	<u>\$34,479</u>	\$19,314	<u>\$149,391</u>	\$17,428	<u>\$137,713</u>
Other liabilities:								
Compensated absences	614,056	315,659	578,012	340,353				
UCRP *	4,509	4,891	4,157	9,400				
Accrued interest	121,812		107,672					
Fair value of interest rate swaps		54,839		90,232				
Third-party payor settlements	497,751		415,988					
Deposits	152,591		148,061					
Other	113,377	162,992	61,326	248,817	24,866	271,825	28,042	253,288
Total	\$1,898,204	\$538,381	\$1,593,297	\$688,802	\$44,180	\$271,825	\$45,470	\$253,288

* UCRP has an equivalent amount recorded as a contribution receivable from the University in its statement of fiduciary net position.

Self-Insurance Programs

Self-insured liabilities changed as follows for the years ended June 30:

<i>(in thousands of dollars)</i>	MEDICAL MALPRACTICE	WORKERS' COMPENSATION	EMPLOYEE & STUDENT HEALTH CARE	GENERAL LIABILITY AND OTHER	TOTAL
<i>Year Ended June 30, 2018</i>					
Liabilities at June 30, 2017	\$193,155	\$409,007	\$90,178	\$168,372	\$860,712
Claims incurred and changes in estimates	75,112	129,808	973,303	63,290	1,241,513
Claim payments	(52,960)	(82,852)	(948,681)	(40,912)	(1,125,405)
Liabilities at June 30, 2018	\$215,307	\$455,963	\$114,800	\$190,750	\$976,820
Discount rate	3.0%	3.0%	Undiscounted	3.0%	
<i>Year Ended June 30, 2017</i>					
Liabilities at June 30, 2016	\$198,440	\$391,440	\$88,510	\$108,519	\$786,909
Claims incurred and changes in estimates	51,074	104,089	811,137	99,538	1,065,838
Claim payments	(56,359)	(86,522)	(809,469)	(39,685)	(992,035)
Liabilities at June 30, 2017	\$193,155	\$409,007	\$90,178	\$168,372	\$860,712
Discount rate	2.6% to 4.7%	2.6% to 4.7%	Undiscounted	2.6% to 4.7%	
<i>Year Ended June 30, 2016</i>					
Liabilities at June 30, 2015	\$187,236	\$353,138	\$75,433	\$94,481	\$710,288
Claims incurred and changes in estimates	73,520	119,972	666,442	41,190	901,124
Claim payments	(62,316)	(81,670)	(653,365)	(27,152)	(824,503)
Liabilities at June 30, 2016	\$198,440	\$391,440	\$88,510	\$108,519	\$786,909
Discount rate	5.0%	5.0%	Undiscounted	2.0%	

Obligations Under Life Income Agreements

Changes in current and noncurrent obligations under life income agreements for the years ended June 30 are as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS	
	ANNUITIES	LIFE BENEFICIARIES	ANNUITIES	LIFE BENEFICIARIES
<i>Year Ended June 30, 2018</i>				
Balance at June 30, 2017	\$16,735	\$19,345	\$50,843	\$104,298
New obligations to beneficiaries and changes in liability, net	3,577	778	19,971	9,287
Payments to beneficiaries	(2,403)	(1,265)	(5,952)	(9,742)
Obligations under life income agreements at June 30, 2018	17,909	18,858	64,862	103,843
Less: Current portion	(825)	(649)	(7,436)	(11,878)
Noncurrent portion at June 30, 2018	\$17,084	\$18,209	\$57,426	\$91,965
<i>Year Ended June 30, 2017</i>				
Balance at June 30, 2016	\$15,588	\$17,779	\$48,898	\$98,134
New obligations to beneficiaries and changes in liability, net	3,353	2,961	7,921	15,733
Payments to beneficiaries	(2,206)	(1,395)	(5,976)	(9,569)
Obligations under life income agreements at June 30, 2017	16,735	19,345	50,843	104,298
Less: Current portion	(763)	(838)	(6,166)	(11,262)
Noncurrent portion at June 30, 2017	\$15,972	\$18,507	\$44,677	\$93,036

13. DEBT

The University directly finances the construction, renovation and acquisition of facilities and equipment, or for such other purposes as are authorized by The Regents through the issuance of debt obligations or indirectly through structures that involve legally separate entities reported as blended component units. Commercial paper and bank loans provide interim financing. Long-term financing includes revenue bonds, capital lease obligations and other borrowings.

The University's outstanding debt at June 30 is as follows:

<i>(in thousands of dollars)</i>	WEIGHTED AVERAGE INTEREST RATE	INTEREST RATE RANGE	MATURITY YEARS	2018	2017
INTERIM FINANCING:					
Commercial paper		1.1 - 2.3%	2018	\$781,804	\$812,673
LONG-TERM FINANCING:					
University of California General Revenue Bonds					
Fixed Rate	4.7%	1.2 - 7.6%	2019 - 2115	11,192,530	9,959,700
Variable Rate	1.4%	1.3 - 1.9%	2037 - 2048	750,000	750,000
University of California Limited Project Revenue Bonds					
	4.8%	1.2 - 6.3%	2019 - 2058	5,019,785	3,702,630
University of California Medical Center Pooled Revenue Bonds					
Fixed Rate	5.5%	1.1 - 6.6%	2019 - 2049	2,501,820	2,763,295
Variable Rate	1.9%	1.2 - 2.4%	2019 - 2047	244,400	247,865
Unamortized bond premium				1,368,889	1,020,465
University of California revenue bonds	4.6%			21,077,424	18,443,955
Capital lease obligations		0.5 - 11.8%	2019 - 2042	207,118	195,022
Other University borrowings		Various	2019 - 2053	556,513	378,659
Blended component unit revenue bonds, net	5.6%	4.0 - 6.5%	2019 - 2052	1,035,918	672,567
Total outstanding debt				23,658,777	20,502,876
Less: Commercial paper				(781,804)	(812,673)
Current portion of outstanding debt				(1,371,030)	(1,519,005)
Noncurrent portion of outstanding debt				\$21,505,943	\$18,171,198

Interest expense associated with financing projects during construction, net of any investment income earned on tax-exempt bond proceeds during construction, is capitalized. Total interest expense during the years ended June 30, 2018 and 2017 was \$821.2 million and \$782.0 million, respectively. Interest expense, net of investment income, totaling \$74.6 million and \$60.8 million was capitalized during the years ended June 30, 2018 and 2017, respectively. The remaining \$746.6 million and \$721.2 million in 2018 and 2017 is reported as interest expense in the statement of revenues, expenses and changes in net position.

Outstanding Debt Activity

The activity with respect to the University's current and noncurrent debt, including the revenue bonds associated with blended component units, for the years ended June 30 is as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY REVENUE BONDS	FINANCING OBLIGATIONS	OTHER UNIVERSITY BORROWINGS	BLENDED COMPONENT UNIT REVENUE BONDS	TOTAL
<i>Year Ended June 30, 2018</i>					
Long-term debt and financing obligations at June 30, 2017	\$18,443,955	\$195,022	\$378,659	\$672,567	\$19,690,203
New obligations	3,544,885	47,225	284,583	319,530	4,196,223
Bond premium, net	430,715			63,217	493,932
Refinancing or prepayment of outstanding debt	(913,690)		(100,049)		(1,013,739)
Scheduled principal payments	(346,150)	(35,129)	(6,680)	(10,750)	(398,709)
Amortization of bond premium	(82,291)			(8,646)	(90,937)
Long-term debt and financing obligations at June 30, 2018	21,077,424	207,118	556,513	1,035,918	22,876,973
Less: Current portion	(1,308,152)	(38,581)	(6,326)	(17,971)	(1,371,030)
Noncurrent portion at June 30, 2018	\$19,769,272	\$168,537	\$550,187	\$1,017,947	\$21,505,943
<i>Year Ended June 30, 2017</i>					
Long-term debt and financing obligations at June 30, 2016	\$17,687,259	\$176,753	\$356,847	\$692,571	\$18,913,430
New obligations	2,181,755	55,360	126,105	54,280	2,417,500
Bond premium, net	213,621			9,107	222,728
Refinancing or prepayment of outstanding debt	(1,224,530)		(39,999)	(56,210)	(1,320,739)
Scheduled principal payments	(339,180)	(37,091)	(64,294)	(24,026)	(464,591)
Amortization of bond premium	(74,970)			(3,155)	(78,125)
Long-term debt and financing obligations at June 30, 2017	18,443,955	195,022	378,659	672,567	19,690,203
Less: Current portion	(1,263,157)	(34,351)	(206,567)	(14,930)	(1,519,005)
Noncurrent portion at June 30, 2017	\$17,180,798	\$160,671	\$172,092	\$657,637	\$18,171,198

Commercial Paper

The University has available a \$2.0 billion commercial paper program, issued in two series, with tax-exempt and taxable components. Commercial paper may be issued for interim financing for capital projects, interim financing of equipment, financing of working capital for the medical centers, standby or interim financing for gift financed projects and working capital for the University.

The program's liquidity is primarily supported by available investments in STIP and TRIP. Commercial paper is collateralized by a pledge of the revenues derived from the ownership or operation of the projects financed and constitute limited obligations of the University. There is no encumbrance, mortgage or other pledge of property securing commercial paper and the paper does not constitute general obligations of the University.

Commercial paper outstanding, including interest rates, at June 30 is as follows:

<i>(in thousands of dollars)</i>	2018		2017	
	INTEREST RATES	OUTSTANDING	INTEREST RATES	OUTSTANDING
Tax-exempt	1.10 - 1.71%	\$457,000		
Taxable	1.88 - 2.30%	324,804	0.93 - 1.26%	\$812,673
Total outstanding		\$781,804		\$812,673

The expectation is that the University will continue to utilize available investments for liquidity support of the commercial paper program. Alternatively, the University may utilize lines of credit from external banks for the purpose of providing additional liquidity support for the commercial paper program. As of June 30, 2018, the University has two revolving credit agreements totaling \$700.0 million. There were no borrowings against the revolving credit lines as of June 30, 2018.

University of California Revenue Bonds

Revenue bonds have financed various auxiliary, administrative, academic, medical center and research facilities of the University. The bonds generally have annual principal and semiannual or monthly interest payments, serial and term maturities, contain sinking fund requirements and may have optional redemption provisions. Revenue bonds are not collateralized by any encumbrance, mortgage or other pledge of property, except pledged revenues, and do not constitute general obligations of The Regents. Revenue Bond Indentures require the University to use the facilities in a way which will not cause the interest on the tax-exempt bonds to be included in the gross income of the bondholders for federal tax purposes. The Indentures permit the University to issue additional bonds as long as certain conditions are met.

General Revenue Bonds are collateralized solely by General Revenues as defined in the General Revenue Bond Indenture. General Revenues are certain operating and nonoperating revenues of the University consisting of gross student tuition and fees; a portion of state appropriations; facilities and administrative cost recovery from contracts and grants; revenues from educational, auxiliary and other activities; and other revenues, including unrestricted investment income. The General Revenue Bond Indenture requires the University to set rates, charges and fees each year sufficient for General Revenues to pay for the annual principal and interest on the bonds and certain other covenants. The pledge of General Revenues for interest rate swap agreements is on a parity basis with the University's General Revenue Bonds. General Revenues for the years ended June 30, 2018 and 2017 were \$16.8 billion and \$16.2 billion, respectively.

Limited Project Revenue Bonds are issued to finance auxiliary enterprises and are collateralized by a pledge consisting of the sum of the gross revenues of the specific projects. The Limited Project Revenue Bond Indenture requires the University to achieve the sum of gross project revenues equal to 1.1 times debt service and maintain certain other covenants. The pledge of revenues for Limited Project Revenue Bonds is subordinate to the pledge of revenues for General Revenue Bonds, but senior to pledges for commercial paper notes. Pledged revenues for the years ended June 30, 2018 and 2017 were \$1.5 billion and \$1.4 billion, respectively.

Medical Center Pooled Revenue Bonds are issued to finance the University's medical center facilities and are collateralized by a joint and several pledges of the gross revenues of all five of the University's medical centers. Medical center gross revenues are excluded from General Revenues. The Medical Center Pooled Revenue Bond Indenture requires the medical centers to set rates, charges and fees each year sufficient for the Medical Centers' total operating and nonoperating revenues to pay for the annual principal and interest on the bonds and certain other covenants. The pledge of medical center revenues for interest rate swap agreements may be at parity with, or subordinate to, Medical Center Pooled Revenue Bonds. Pledged revenues of the medical centers for the years ended June 30, 2018 and 2017 were \$12.2 billion and \$11.4 billion, respectively.

2018 Activity

In September 2017, Limited Project Revenue Bonds totaling \$860.4 million, including \$733.5 million tax-exempt bonds and \$126.9 million taxable bonds, were issued to finance the acquisition, construction, improvement and renovation of certain facilities of the University. The bonds mature at various dates through 2052. Proceeds, including a bond premium of \$124.2 million, were used to pay for project construction and issuance costs. The taxable bonds have a stated weighted average rate of 2.9 percent. The tax-exempt bonds have a stated weighted average interest rate of 4.9 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

In December 2017, General Revenue Bonds totaling \$625.5 million of tax-exempt bonds were issued to advance refund a portion of General Revenue Bonds, Limited Project Revenue Bonds and Medical Center Pooled Revenue Bonds. The bonds mature at various dates through 2041. The bonds have a stated weighted average interest rate of 4.7 percent. The bond premium of \$113.1 million will be amortized as a reduction to interest expense over the term of the bonds. The refinancing and refunding of previously outstanding bonds resulted in cash flow savings of \$74.6 million and an economic gain of \$59.3 million.

In June 2018, General Revenue Bonds totaling \$1.2 billion, including \$945.8 million in tax-exempt bonds and \$281.9 million in taxable bonds, were issued to finance or refinance the acquisition, construction, improvement and renovation of certain facilities of the University. The bonds mature at various dates through 2058. Proceeds, including a bond premium of \$144.3 million, were used to pay for project construction and issuance costs and to refund \$112.7 million of outstanding General Revenue Bonds. The tax-exempt bonds have a stated weighted average interest rate of 4.9 percent. The taxable bonds have a stated weighted average interest rate of 4.3 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds. The refinancing and refunding of previously outstanding bonds resulted in cash flow savings of \$13.0 million and an economic gain of \$10.2 million.

In June 2018, Limited Project Revenue Bonds totaling \$831.3 million, including \$736.2 million tax-exempt bonds and \$95.1 million taxable bonds, were issued to finance or refinance the acquisition, construction, improvement and renovation of certain facilities of the University. The bonds mature at various dates through 2058. Proceeds, including a bond premium of \$108.5 million, were used to pay for

project construction and issuance costs and to refund \$151.3 million of outstanding Limited Project Revenue Bonds. The taxable bonds have a stated weighted average rate of 3.9 percent. The tax-exempt bonds have a stated weighted average interest rate of 4.9 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds. The refinancing and refunding of previously outstanding bonds resulted in cash flow savings of \$17.7 million and an economic gain of \$13.7 million.

2017 Activity

In August 2016, Medical Center Pooled Revenue Bonds totaling \$1.0 billion, including \$872.8 million of tax-exempt bonds and \$173.4 million taxable bonds, were issued to finance and refinance certain facilities and projects of the Medical Centers. Proceeds, including a net bond premium of \$155.8 million, were used to pay for project construction, issuance costs and refund \$724.5 million of outstanding Medical Center Pooled Revenue Bonds and all of the outstanding Medical Center Revenue Bonds. The bonds mature at various dates through 2047. Simultaneously, a bank standby bond purchase agreement for certain of the University's variable-rate demand bonds was terminated. The University will provide its own liquidity in connection with mandatory and optional tenders and remarketing of these bonds and does not plan to provide any third-party liquidity facility to support this obligation. The interest rates on the variable-rate demand bonds reset daily and an interest rate swap is being used to limit exposure to changes in market interest rates. In the event of a failed remarketing, the variable-rate demand bonds can be put back to The Regents for tender. The tax-exempt and taxable bonds have a stated weighted average interest rate of 4.5 percent and 3.0 percent, respectively. The refunding of the outstanding Medical Center Pooled Revenue Bonds and Medical Center Revenue Bonds resulted in a loss of \$8.0 million, recorded as a deferred outflow of resources, that will be amortized as interest expense over the term of the refunded bonds. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds. The refinancing and refunding of previously outstanding Medical Center Revenue Bonds resulted in cash flow savings of \$193.5 million and an economic gain of \$151.2 million.

In April 2017, General Revenue Bonds totaling \$1.1 billion, including \$449.7 million in tax-exempt bonds, \$185.9 million in taxable bonds and \$500.0 million of taxable fixed-rate notes, were issued to finance or refinance certain capital projects and working capital borrowings of the University. The bonds mature at various dates through 2049 and the taxable fixed-rate notes mature in 2025. Proceeds, including a bond premium of \$68.0 million, were used to pay for project construction and issuance costs and to refund \$500.0 million of outstanding General Revenue Bonds. The tax-exempt bonds have a stated weighted average interest rate of 4.8 percent. The taxable bonds have a stated weighted average interest rate of 3.8 percent. The taxable fixed rate notes have a stated interest rate of 3.1 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

Capital Leases

Capital leases entered into with other lessors, typically for equipment, totaled \$47.2 million and \$55.4 million for the years ended June 30, 2018 and 2017, respectively.

Other University Borrowings

Other University borrowings consist of contractual obligations resulting from the acquisition of land or buildings and the construction and renovation of certain facilities, along with the borrowing component associated with a hybrid derivative instrument.

The University may use uncollateralized revolving lines of credit with commercial banks for general corporate purposes and to provide interim financing for buildings and equipment. Lines of credit commitments for general corporate purposes, with various expiration dates through May 3, 2021, totaled \$400.0 million at June 30, 2018 and \$415.0 million at June 30, 2017. Outstanding borrowings under these bank lines totaled \$150.0 million and \$250.0 million at June 30, 2018 and 2017, respectively.

Certain of the interest rate swaps are considered hybrid instruments. As such, the interest rate swaps are comprised of a derivative instrument and a companion instrument recorded as a borrowing. The unamortized amount of the borrowing was \$75.2 million and \$79.0 million at June 30, 2018 and 2017, respectively.

In August 2016, the University entered into an agreement with a developer to design, construct, finance, operate and maintain certain auxiliary, administrative, academic and research facilities of one of its campuses, for which the University will finance \$600.0 million of the total costs. Of this amount, \$585.0 million will be paid to the developer over a 48-month period through a series of monthly progress payments. The remainder will cover invoiced costs for infrastructure improvements and equipment. Upon completion of the design-build phase of the project, the University will enter into an ongoing Operations and Maintenance Agreement with the developer through 2055. Payments under this agreement will have two components: the first component of the agreement is related to the operations and maintenance of the facilities, the second component is to service the private debt incurred by the developer during the construction phase. The operations and maintenance component of the payment will be expensed as incurred. The payments for the private debt are being treated as capital leases and are recorded as other borrowings by the University. In the event that the operations and maintenance agreement with the developer is terminated, the outstanding portion of the private debt incurred by

the developer would become an obligation of the University. The outstanding amount of the borrowing was \$296.9 million and \$43.7 million at June 30, 2018 and 2017, respectively.

As of June 30, 2018, CHRCO had no amounts outstanding under its revolving credit facility for \$25.0 million. The interest rate on the credit facility is 3.2 percent as of June 30, 2018 and the facility expires on August 31, 2020.

Blended Component Unit Revenue Bonds

Student Housing

The University has entered into ground leases with a legally separate, nonprofit corporation that develops and owns student housing projects and related amenities and improvements on a University campus through the use of a single-project limited liability corporation (LLC). The LLC manages the premises. The University's reversionary interest in the land is not subordinated. All costs associated with the ownership, operation and management of the improvements are the obligation of the LLC. Student rental rates are established in order to provide for operating expenses and maintain the required debt service coverage ratios. The University is not responsible for any payments related to the ownership, operation or financing of the student housing. However, under accounting requirements, the financial position and operating results of this legally separate organization are blended into the University's financial reporting entity.

The LLC, through its conduit issuer, has outstanding Student Housing LLC Revenue Bonds to finance the construction of the student housing facilities. The bonds generally have annual principal and semiannual interest payments, serial and term maturities, certain sinking fund requirements and optional redemption provisions. They are not collateralized by any encumbrance, mortgage or other pledge of property, except pledged revenues of the student housing projects, and do not constitute general obligations of The Regents.

In August 2017, the LLC, through its conduit issuer, issued additional Student Housing LLC Revenue Bonds totaling \$148.6 million. The bonds mature at various dates through 2050 and have a stated weighted average interest rate of 5.0 percent. Proceeds, including a bond premium of \$24.2 million, were used to pay for project construction and issuance costs. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

At June 30, 2018 and 2017, the LLC, through its conduit issuer, has outstanding Student Housing LLC Revenue Bonds totaling \$501.3 million and \$362.2 million, respectively. The bonds mature at various dates through 2050 and have a weighted average interest rate of 5.1 percent.

Research Facilities

The University has a public/private partnership, for the purpose of developing, constructing and managing a neuroscience research and laboratory building and a psychiatry youth and family center with a legally separate, nonprofit corporation (the Corporation). In connection with these facilities, the University entered into ground leases with the Corporation. The Corporation has entered into a sub-ground leases with a developer to construct, own and manage the facilities. The University agreed to lease all of the space in the building from the developer. The University's base rent payments are equal to the principal and interest payments on the bonds issued by a conduit issuer and loaned to the nonprofit corporation to finance the construction of the building. As security on the bonds, the developer has assigned all payments received from the University for the space lease to the bond trustee.

All of the board members of the Corporation are appointed by the University and the University has the authority to determine the budget for the nonprofit corporation. Under accounting requirements, the financial position and operating results of this legally separate organization are blended into the University's financial reporting entity.

In December 2017, the Corporation, through its conduit issuer, issued additional revenue bonds totaling \$171.0 million. The bonds mature at various dates through 2052 and have a stated weighted average interest rate of 5.0 percent. Proceeds, including a bond premium of \$39.0 million, were used to pay for construction and issuance costs of the psychiatry youth and family center. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

At June 30, 2018, the Corporation, through a conduit issuer, has outstanding tax-exempt revenue bonds totaling \$190.7 million and taxable revenue bonds totaling \$188.0 million. The tax-exempt revenue bonds mature at various dates from 2021 to 2052 and have a weighted average interest rate of 5.0 percent. The tax-exempt revenue bonds generally have annual serial maturities, semi-annual interest payments and optional redemption provisions. The taxable bonds mature in 2049 and have an interest rate of 6.5 percent. The taxable bonds were issued as Build America Bonds, under which the U.S. Treasury is expected to send the conduit issuer 35.0 percent of the semi-annual interest cost on the taxable bonds, making the net interest rate 4.2 percent post-subsidy. The taxable bonds have a term maturity with various certain annual sinking fund requirements, semi-annual interest payments and optional redemption provisions.

In addition, the University entered into a ground lease with another legally separate, nonprofit corporation (the Consortium). The Consortium entered into an agreement with a developer to develop and own a research laboratory facility designed to expand collaborative work in stem cell research and facilitate its translation into tools and techniques to diagnose and treat degenerative diseases and other ailments. The developer constructed the research laboratory facility. All costs associated with the ownership, operation and management of the laboratory research facility are the obligation of the Consortium. The University, along with the other collaborative research partners, will lease space in the building. Under accounting requirements, the financial position and operating results of this legally separate organization are blended into the University's financial reporting entity.

The Consortium, through its conduit issuer, has outstanding revenue bonds totaling \$52.0 million and \$53.3 million at June 30, 2018 and 2017, respectively. The bonds mature at various dates through 2040 and have a weighted average interest rate of 4.5 percent. The bonds generally have annual principal and semiannual interest payments, serial and term maturities, certain sinking fund requirements and optional redemption provisions. Lease payments from the occupants of the building are pledged as collateral on the bonds. To the extent the lease payments are not sufficient to pay the debt service, the University is obligated to pay the shortfall.

Future Debt Service and Hedging Derivative Interest Rate Swaps

Future debt service payments for the University's fixed- and variable-rate debt for each of the five fiscal years subsequent to June 30, 2018, and thereafter are as presented below. Although not a prediction by the University of the future interest cost of the variable-rate bonds, these amounts assume that current interest rates on variable-rate bonds will not change. As these rates vary, variable-rate bond interest payments will vary.

<i>(in thousands of dollars)</i>	COMMERCIAL PAPER	MEDICAL CENTER REVENUE BONDS	UNIVERSITY REVENUE BONDS	CAPITAL LEASES	OTHER UNIVERSITY BORROWINGS	BLENDED COMPONENT UNIT REVENUE BONDS	TOTAL PAYMENTS	PRINCIPAL	INTEREST
<i>Year Ending June 30</i>									
2019	\$784,758	\$187,204	\$1,073,658	\$45,471	\$16,107	\$60,188	\$2,167,386	\$1,218,885	\$948,501
2020		192,920	1,372,540	43,027	159,269	60,184	1,827,940	895,277	932,663
2021		202,776	1,308,195	37,848	12,283	68,067	1,629,169	716,048	913,121
2022		201,737	1,086,149	15,464	12,377	68,271	1,383,998	494,186	889,812
2023		201,111	1,083,396	10,116	12,440	68,276	1,375,339	505,825	869,514
2024 - 2028		956,826	5,929,881	37,293	62,246	341,307	7,327,553	3,382,997	3,944,556
2029 - 2033		890,058	5,140,036	37,334	62,153	339,280	6,468,861	3,253,051	3,215,810
2034 - 2038		883,305	4,717,136	35,138	74,058	335,731	6,045,368	3,644,952	2,400,416
2039 - 2043		951,386	3,717,648	30,184	50,347	211,326	4,960,891	3,462,243	1,498,648
2044 - 2048		785,996	2,459,473		45,884	170,619	3,461,972	2,689,889	772,083
2049 - 2053		22,217	705,514		64,711	75,507	867,949	463,221	404,728
2054 - 2115			5,418,990				5,418,990	1,460,085	3,958,905
Total future debt service	784,758	5,475,536	34,012,616	291,875	571,875	1,798,756	42,935,416	\$22,186,659	\$20,748,757
Less: Interest component of future payments	(2,954)	(2,729,316)	(17,050,301)	(84,063)	(15,362)	(866,761)	(20,748,757)		
Principal portion of future payments	781,804	2,746,220	16,962,315	207,812	556,513	931,995	22,186,659		
Adjusted by:									
Unamortized bond premium		181,348	1,187,541			103,923	1,472,812		
Present value of net minimum leases included in long-term debt				(694)			(694)		
Total debt	\$781,804	\$2,927,568	\$18,149,856	\$207,118	\$556,513	\$1,035,918	\$23,658,777		

Long-term debt does not include \$2.6 billion of defeased liabilities at June 30, 2018. Investments that have maturities and interest rates sufficient to fund retirement of these liabilities are being held in irrevocable trusts for the debt service payments. Neither the assets of the trusts nor the outstanding obligations are included in the University's statement of net position.

General Revenue Bonds of \$750.0 million are variable-rate demand bonds which reset weekly and, in the event of a failed remarketing, can be put back to The Regents for tender. The University has classified these bonds as current liabilities as of June 30, 2018.

Medical Center Pooled Revenue Bonds of \$95.4 million are variable-rate demand bonds which give the debt holders the ability to tender the bonds back to the University upon demand. The University has classified these bonds as current liabilities as of June 30, 2018.

For the University's cash flow hedges, future debt service payments for the University's variable-rate debt and net receipts or payments on the associated hedging derivative instruments for each of the five fiscal years subsequent to June 30, 2018, and thereafter are as presented below. Although not a prediction by the University of the future interest cost of the variable-rate bonds or the impact of the interest rate swaps, using rates as of June 30, 2018, combined debt service requirements of the variable-rate debt and net swap payments are as follows:

<i>(in thousands of dollars)</i>	VARIABLE-RATE BONDS		INTEREST RATE SWAP, NET	TOTAL PAYMENTS
	PRINCIPAL	INTEREST		
<i>Year Ending June 30</i>				
2019	\$3,590	\$12,098	\$8,014	\$23,702
2020	3,725	12,104	7,948	23,777
2021	3,860	12,079	7,873	23,812
2022	3,995	12,028	7,798	23,821
2023	7,510	11,980	7,721	27,211
2024-2028	42,350	58,016	23,857	124,223
2029-2033	45,745	54,184	18,082	118,011
2034-2038	30,175	50,603	13,903	94,681
2039-2043	55,030	46,237	9,363	110,630
2044-2048	642,870	25,051	2,073	669,994
Total	\$838,850	\$294,380	\$106,632	\$1,239,862

14. DEFERRED OUTFLOWS AND INFLOWS OF RESOURCES

The University's composition of deferred outflows and inflows of resources at June 30 are summarized as follows:

<i>(in thousands of dollars)</i>	SERVICE CONCESSION ARRANGEMENTS	NET PENSION LIABILITY	NET RETIREE HEALTH BENEFITS LIABILITY	DEBT REFUNDING	INTEREST RATE SWAP AGREEMENTS	ROYALTY SALES	IRREVOCABLE SPLIT-INTEREST AGREEMENTS	TOTAL
<i>At June 30, 2018</i>								
Deferred outflows of resources		\$727,344	\$3,515,860	\$351,360	\$54,839			\$4,649,403
Deferred inflows of resources	\$176,447	275,145	5,645,528	1,388		\$421,341	\$89,855	6,609,704
<i>At June 30, 2017</i>								
Deferred outflows of resources		\$1,001,165	\$4,106,941	\$351,306	\$90,232			\$5,549,644
Deferred inflows of resources	\$95,725	785,238	4,934,470	1,436		\$467,502	\$87,412	6,371,783

The campus foundations' deferred inflows of resources are primarily related to irrevocable split-interest agreements.

15. THE UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM (UCRS)

Most University employees participate in UCRS. UCRS consists of UCRP, a defined benefit plan funded with University and employee contributions; UCRSP, which includes defined contribution plans with options to participate in internally or externally managed investment portfolios generally funded with employee non-elective and elective contributions; UC-VERIP, a defined benefit plan for University employees who were members of PERS and who elected early retirement; and the CHRCO Pension Plan, a defined benefit plan fully funded with CHRCO contributions. The Regents has the authority to establish and amend the benefit plans except for the CHRCO Pension Plan. Administration authority with respect to UCRS plans is vested with the President of the University as plan administrator. CHRCO administers the CHRCO Pension Plan as the Sponsor and plan assets are held by US Bank (the Trustee).

Condensed financial information related to each plan in UCRS and the changes in pension liability for UCRP, UC-VERIP and the CHRCO Pension Plan for the year ended June 30, 2018 is as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA					
	UNIVERSITY OF CALIFORNIA RETIREMENT PLAN	UNIVERSITY OF CALIFORNIA UC-VERIP	SUBTOTAL	UNIVERSITY OF CALIFORNIA RETIREMENT SAVINGS PROGRAM	TOTAL	CHILDREN'S HOSPITAL & RESEARCH CENTER AT OAKLAND PENSION PLAN
CONDENSED STATEMENT OF PLAN FIDUCIARY NET POSITION						
Investments at fair value	\$67,871,988	\$66,370	\$67,938,358	\$22,934,360	\$90,872,718	\$460,061
Participants' interests in mutual funds				1,585,098	1,585,098	
Investment of cash collateral	3,863,753	3,770	3,867,523	2,290,767	6,158,290	
Other assets	156,883	87	156,970	307,700	464,670	
Total assets	71,892,624	70,227	71,962,851	27,117,925	99,080,776	460,061
Collateral held for securities lending	3,863,026	3,769	3,866,795	2,290,336	6,157,131	
Other liabilities	1,256,008	1,210	1,257,218	441,485	1,698,703	
Total liabilities	5,119,034	4,979	5,124,013	2,731,821	7,855,834	
Net position held in trust	\$66,773,590	\$65,248	\$66,838,838	\$24,386,104	\$91,224,942	\$460,061
CONDENSED STATEMENT OF CHANGES IN PLANS' FIDUCIARY NET POSITION						
Contributions	\$3,446,018		\$3,446,018	\$1,313,722	\$4,759,740	\$33,600
Net appreciation (depreciation) in fair value of investments	3,743,725	\$3,735	3,747,460	1,351,080	5,098,540	
Investment and other income, net	1,093,828	1,149	1,094,977	461,431	1,556,408	33,269
Total additions	8,283,571	4,884	8,288,455	3,126,233	11,414,688	66,869
Benefit payment and participant withdrawals	3,587,554	4,610	3,592,164	1,220,081	4,812,245	12,802
Other deductions	36,685	4	36,689	2,680	39,369	3,014
Total deductions	3,624,239	4,614	3,628,853	1,222,761	4,851,614	15,816
Increase in net position held in trust	4,659,332	270	4,659,602	1,903,472	6,563,074	51,053
Net position held in trust						
Beginning of year	62,114,258	64,978	62,179,236	22,482,632	84,661,868	409,008
End of year	\$66,773,590	\$65,248	\$66,838,838	\$24,386,104	\$91,224,942	\$460,061
CHANGES IN TOTAL PENSION LIABILITY						
Service cost	\$1,873,004		\$1,873,004			\$11,304
Interest	5,295,733	\$2,042	5,297,775			31,854
Difference between expected and actual experience	138,419	(436)	137,983			92
Changes of benefit terms						3,609
Benefits paid, including refunds of employee contributions	(3,587,554)	(4,610)	(3,592,164)			(12,802)
Net change in total pension liability	3,719,602	(3,004)	3,716,598			34,057
Total pension liability						
Beginning of year	72,826,846	32,544	72,859,390			450,152
End of year	\$76,546,448	\$29,540	\$76,575,988			\$484,209
Net pension liability (asset), end of year	\$9,772,858	(\$35,708)	\$9,737,150			\$24,148

Additional information on the retirement plans can be obtained from the 2017-2018 annual reports of the University of California Retirement System which can be obtained at <http://reportingtransparency.universityofcalifornia.edu/>.

University of California Retirement Plan

UCRP provides lifetime retirement income, disability protection, death benefits, and post-retirement and pre-retirement survivor benefits to eligible employees of the University, and its affiliates. Membership is required in UCRP for all employees appointed to work at least 50 percent time for one year or more or for an indefinite period or for a definite period of a year or more. An employee may also become eligible by completing 1,000 hours within a 12-month period. Generally, five years of service are required for entitlement to plan benefits. The amount of pension benefit is determined under the basic formula of covered compensation times age factor times years of service credit. The maximum monthly benefit cannot exceed 100 percent of the employee's highest average plan compensation over a 36-month period, subject to certain limits imposed under the Internal Revenue Code or plan provisions. Annual cost-of-living adjustments are made to monthly benefits according to a specified formula based on the Consumer Price Index. Ad hoc COLAs may be granted subject to funding availability.

The University's membership in UCRP consisted of the following at June 30, 2018:

	CAMPUSES AND MEDICAL CENTERS	DOE NATIONAL LABORATORIES	UNIVERSITY OF CALIFORNIA
Retirees and beneficiaries receiving benefits	62,704	13,220	75,924
Inactive members entitled to, but not receiving benefits	82,855	9,762	92,617
Active members:			
Vested	75,290	1,643	76,933
Nonvested	52,216	730	52,946
Total active members	127,506	2,373	129,879
Total membership	273,065	25,355	298,420

Contributions

Contributions to UCRP are based upon rates determined by The Regents. The Regents' funding policy provides for contributions at rates to maintain UCRP on an actuarially sound basis. While the University's independent actuary annually determines the total funding policy contributions, the University is not required to contribute an amount equal to the total funding contribution. The actual contributions and the contribution rates of the University and employees are based on numerous factors, including the availability of funds to the University, the impact of employee contributions on the competitiveness of the University's total remuneration package, and collective bargaining agreements.

The Regents determines the portion of the total contribution to be made by the employer and by the employees, and employee contribution rates for represented employees are subject to collective bargaining. Effective July 1, 2014, employee member contributions range from 7.0 percent to 9.0 percent. The University pays a uniform contribution rate of 14.0 percent of covered payroll on behalf of all UCRP members.

Employee contributions to UCRP are accounted for separately and currently accrue interest at 6.0 percent annually. Upon termination, members may elect a refund of their contributions plus accumulated interest; vested terminated members who are eligible to retire may also elect monthly retirement income or possibly a lump sum equal to the present value of their accrued benefits. Both current employees and retirees at LBNL participate in UCRP. The University makes contributions to UCRP for LBNL employees based upon rates authorized by The Regents and is reimbursed by the DOE. The University also makes contributions to UCRP for LANL and LLNL retirees and terminated vested members whose benefits were retained in UCRP at the time the joint ventures were formed. The contributions for the LANL and LLNL are actuarially determined based upon a contractual arrangement with the DOE that incorporates a formula targeted to maintain the LANL and LLNL segments within UCRP at a 100-percent funded level. The University is reimbursed by the DOE for these contributions. To the extent the University has recorded a net pension liability (and related deferred inflows and outflows of resources) that will be reimbursed under DOE contracts, a receivable from the DOE is recorded. As of June 30, 2018 and 2017, the University reported \$316.7 million and \$615.1 million, respectively, as other noncurrent Department of Energy receivables for pension liabilities. Contributions of \$307.9 million and \$367.7 million were reported as DOE laboratory revenue and expense in the statement of revenues, expenses and changes in net position, and were deposited into UCRP on behalf of the DOE for the years ended June 30, 2018 and 2017, respectively.

Net Pension Liability

All UCRP assets are available to pay any member's benefit. However, assets and liabilities for the campus and medical center segment of UCRP are internally tracked separately from the DOE national laboratory segments of UCRP. The net pension liability for UCRP was as follows:

<i>(in thousands of dollars)</i>	CAMPUSES AND MEDICAL CENTERS	DOE NATIONAL LABORATORIES	UNIVERSITY OF CALIFORNIA
<i>At June 30, 2018</i>			
UCRP net position	\$57,608,162	\$9,165,428	\$66,773,590
Total pension liability	67,065,682	9,480,766	76,546,448
Net pension liability	\$9,457,520	\$315,338	\$9,772,858
<i>At June 30, 2017</i>			
UCRP net position	\$53,251,580	\$8,862,678	\$62,114,258
Total pension liability	63,355,934	9,470,912	72,826,846
Net pension liability	\$10,104,354	\$608,234	\$10,712,588

The University's net pension liability was measured as of June 30 and was calculated using the plan net position valued as of the measurement date and total pension liability determined based upon rolling forward the total pension liability from the results of the actuarial valuations as of July 1, one year prior to the measurement date. Actuarial valuations represent a long-term perspective and involve estimates of the value of reported benefits and assumptions about the probability of occurrence of events far into the future. The University's net pension liability was calculated using the following methods and assumptions:

	2018	2017
Inflation	3.0 %	3.0 %
Investment rate of return	7.25	7.25
Projected salary increases	3.8 - 6.2	3.8 - 6.2
Cost-of-living adjustments	2.0	2.0

Actuarial assumptions are subject to periodic revisions as actual results are compared with past expectations and new estimates are made about the future. The actuarial assumptions used as of June 30, 2018 and 2017 were based upon the results of an experience study conducted for the period of July 1, 2010 through June 30, 2014. For active members, inactive members and healthy retirees, the RP-2014 White Collar Mortality Tables are used (separate tables for males and females), projected with the two-dimensional MP-2014 projection scale to 2029, and with ages then set forward one year. For disabled members, rates are based on the RP-2014 Disabled Retiree Mortality Table, projected with the two-dimensional MP-2014 projection scale to 2029, and with ages then set back one year for males and set forward five years for females.

The long-term expected investment rate of return assumption for UCRP was determined in 2015 based on a building-block method in which expected future real rates of return (expected returns, net of inflation) are developed for each major asset class. These returns are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage, adding expected inflation and subtracting expected investment expenses and a risk margin. The target allocation and projected arithmetic real rates of return for each major asset class, after deducting inflation, but before deducting investment expenses, used in the derivation of the long-term expected investment rate of return assumption as of June 30, 2018 and 2017 are summarized in the following table:

	TARGET ALLOCATION	LONG-TERM EXPECTED REAL RATE OF RETURN
Asset class		
U.S. Equity	28.5%	6.1%
Developed International Equity	18.5	7.0
Emerging Market Equity	8.0	8.6
Core Fixed Income	12.5	0.8
High-Yield Bonds	2.5	3.0
Emerging Market Debt	2.5	3.9
Treasury Inflation Protected Securities	4.5	0.4
Real Estate	5.5	4.8
Private Equity	8.0	11.2
Absolute Return	6.5	4.2
Real Assets	3.0	4.4
Total	100.0%	5.6%

Discount Rate

The discount rate used to estimate the net pension liability as of June 30, 2018 and 2017 was 7.25 percent. To calculate the discount rate, cash flows into and out of UCRP were projected in order to determine whether UCRS has sufficient cash in future periods for projected benefit payments for current members. For this purpose, University, state and member contributions that are intended to fund benefits of current plan members and their beneficiaries are included. Projected University and member contributions that are intended to fund the service costs of future plan members and their beneficiaries, as well as projected contributions of future plan members, are not included. UCRP was projected to have assets sufficient to make projected benefit payments for current members for all future years as of June 30, 2018 and 2017.

Sensitivity of the Net Pension Liability to the Discount Rate Assumption

The following presents the June 30, 2018 net pension liability of the University calculated using the June 30, 2018 discount rate assumption of 7.25 percent, as well as what the net pension liability would be if it were calculated using a discount rate different than the current assumption:

<i>(in thousands of dollars)</i>	1% DECREASE (6.25%)	CURRENT DISCOUNT (7.25%)	1% INCREASE (8.25%)
UCRP	\$19,331,895	\$9,772,858	\$1,764,796
UC-VERIP	(34,194)	(35,708)	(37,109)

Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred outflows of resources and deferred inflows of resources for pensions were related to the following sources:

<i>(in thousands of dollars)</i>	CAMPUSES AND MEDICAL CENTERS	DOE NATIONAL LABORATORIES	TOTAL UCRP	UC-VERIP	TOTAL
<i>At June 30, 2018</i>					
DEFERRED OUTFLOWS OF RESOURCES					
Difference between expected and actual experience	\$244,188	\$1,696	\$245,884		\$245,884
Changes of assumptions or other inputs	458,349		458,349		458,349
Total	\$702,537	\$1,696	\$704,233		\$704,233
DEFERRED INFLOWS OF RESOURCES					
Difference between expected and actual experience	\$55,427		\$55,427		\$55,427
Net difference between projected and actual earnings on pension plan investments	208,589	\$4,484	213,073	\$14	213,087
Total	\$264,016	\$4,484	\$268,500	\$14	\$268,514
<i>At June 30, 2017</i>					
DEFERRED OUTFLOWS OF RESOURCES					
Difference between expected and actual experience	\$179,399		\$179,399		\$179,399
Changes of assumptions or other inputs	785,741		785,741		785,741
Net difference between projected and actual earnings on pension plan investments		\$7,275	7,275		7,275
Total	\$965,140	\$7,275	\$972,415		\$972,415
DEFERRED INFLOWS OF RESOURCES					
Difference between expected and actual experience	\$151,067	\$7,410	\$158,477		\$158,477
Changes of assumptions or other inputs	378,815		378,815		378,815
Net difference between projected and actual earnings on pension plan investments	244,430		244,430		244,430
Total	\$774,312	\$7,410	\$781,722		\$781,722

The net amount of deferred outflows of resources and deferred inflows of resources as of June 30, 2018 related to pensions that will be recognized in pension expense during the next five years are as follows:

<i>(in thousands of dollars)</i>	CAMPUSES AND MEDICAL CENTERS	DOE NATIONAL LABORATORIES	TOTAL UCRP	UC-VERIP	TOTAL
2019	\$814,090	\$96,351	\$910,441	\$773	\$911,214
2020	323,732	32,666	356,398	272	356,670
2021	(676,822)	(119,396)	(796,218)	(954)	(797,172)
2022	(33,815)	(12,409)	(46,224)	(105)	(46,329)
2023	11,336		11,336		11,336
Total	\$438,521	(\$2,788)	\$435,733	(\$14)	\$435,719

Defined Contribution Plan

Effective July 1, 2016, newly hired (or becoming eligible) employees can elect a defined contribution option instead of participating in UCRP. For employees who elect this option, both the University and the participants make mandatory contributions, on a pretax basis, on eligible pay up to the IRS compensation limit. The participant contributes 7.0 percent and the University contributes 8.0 percent. University contributions are fully vested after one year of service. For certain newly hired (or becoming eligible) employees who elect to participate in UCRP, the University and the participants make mandatory contributions to the DC Plan on eligible pay up to the IRS limit. Participants contribute 7.0 percent on eligible pay and the University contributes 5.0 percent for designated faculty and 3.0 percent for staff. University contributions fully vest after five years service.

The University also makes DC Plan retirement contributions on the summer or equivalent term salaries of eligible academic employees who teach, conduct research or provide administrative service during the summer session or an equivalent term. To be eligible, employees must hold academic year appointments and be active members of UCRP or another defined benefit plan to which the University contributes. The contribution rate is 7.0 percent of eligible salary, of which 3.5 percent is University-paid and 3.5 percent is employee-paid, both on a pretax basis. The University may also contribute on behalf of eligible senior managers. Employer contributions to the DC Plan were \$29.8 million and \$13.2 million for the years ended June 30, 2018 and 2017, respectively.

The DC Plan Pretax Account also includes mandatory contributions from part-time, seasonal and temporary employees at the University who are not currently participating in UCRP or another defined benefit plan to which the University contributes (Safe Harbor participants). Safe Harbor participation includes certain University student employees and resident aliens with F-1 and J-1 visa status. Safe Harbor participants contribute 7.5 percent of their gross salary (up to the Social Security wage base) to the Plan in lieu of deductions for Social Security taxes.

All University employees, except students who normally work fewer than 20 hours per week, are eligible to make voluntary contributions to the DC Plan After-Tax Account and defer taxation on the earnings until the accumulations are withdrawn. The maximum amount participants may contribute annually to the After-Tax Account is determined by the IRC §415(c) limit. The University may also make DC Plan contributions on behalf of eligible senior managers.

The Supplemental Defined Contribution Plan (SDC Plan) accepts employer contributions in behalf of certain designated employees. Employer contributions are fully vested and there is no provision for employee contributions. There were no assets or employer contributions to the SDC Plan for the years ended June 30, 2018 and 2017.

Tax Deferred 403(b) Plan

The University's Tax-Deferred 403(b) Plan (403(b) Plan) accepts pretax employee contributions. The University may also make contributions in behalf of certain members of management. Employer contributions to the 403(b) Plan were \$8.7 million and \$3.2 million for the years ended June 30, 2018 and 2017.

457(b) Deferred Compensation Plan

The University's 457(b) Deferred Compensation Plan (457(b) Plan) accepts pretax employee contributions. The University may also make contributions in behalf of certain members of management. There were no employer contributions to the 457(b) Plan for the years ended June 30, 2018 and 2017.

Participants in the DC Plan, the SDC Plan, the 403(b) Plan and the 457(b) Plan may direct their elective and nonelective contributions to investment funds managed by the Chief Investment Officer. They may also invest account balances in certain mutual funds. The participants' interests in mutual funds is shown separately in the statement of plans' fiduciary net position.

University of California Voluntary Early Retirement Incentive Program (UC-PERS)

UC-PERS is a defined benefit pension plan providing lifetime supplemental retirement income and survivor benefits to UC-PERS members who elected early retirement under provisions of the Plan. The University contributed to PERS on behalf of these UC-PERS members. As of July 1, 2018, there are 492 retirees or beneficiaries receiving benefits under this voluntary early retirement program.

The University and the DOE laboratories previously made contributions to the Plan sufficient to maintain the promised benefits. The actuarially determined contributions are zero for the years ended June 30, 2018 and 2017.

Children's Hospital and Research Center at Oakland Pension Plan

CHRCO has a noncontributory defined benefit plan subject to the single employer defined benefit under ERISA rules that covers active and retired employees. The CHRCO Pension Plan was amended effective January 1, 2012 to exclude unrepresented employees hired or rehired on or after January 1, 2012. The CHRCO Pension Plan provides retirement, disability and death benefits to plan participants. Benefits are based on a participant's length of service, age at retirement and average compensation as defined by the CHRCO Pension Plan.

The net pension liability for the Plan was calculated based upon the following assumptions as of June 30, 2018 and 2017: 3.0 percent inflation, 7.0 percent investment rate of return, 5.0 percent salary increases through 2017, 4.0 percent afterward and no cost-of-living adjustments. CHRCO recognized pension expense of \$22.3 million and \$20.0 million for the years ended June 30, 2018 and 2017, respectively.

Mortality rates were based on the RP-2016 Mortality Table with fully generational projected mortality improvements using modified scale MP-2016. The MP-2016 projection scale was modified for this valuation to utilize the Social Security administration's intermediate cost projection scale and a 15-year convergence period.

Additional information on the CHRCO Pension Plan can be found in the annual reports, which can be obtained by contacting CHRCO.

Membership in the CHRCO Plan consisted of the following at June 30, 2018:

Retirees and beneficiaries receiving benefits	957
Inactive members entitled to, but not yet receiving benefits	1,144
Active members	1,856
Total membership	3,957

Contributions

Employer contributions are determined under IRC Section 430. Employees are not required or permitted to contribute to the Plan.

Net Pension Liability

The net pension liability for CHRCO was measured as of June 30, 2018 and 2017, and the total pension liability was determined by an actuarial valuation as of January 1, 2018 and 2017 rolled forward to June 30, 2018 and 2017, respectively. The actuarial assumptions used in the June 30, 2018 and 2017 valuation were based on the results of an experience review conducted during 2015. The target allocation and projected arithmetic real rates of return, after deducting inflation, but before investment expenses, used in the derivation of the long-term expected investment rate of return assumption for each major asset class are as follows:

	PORTFOLIO PERCENTAGE	LONG-TERM EXPECTED REAL RATE OF RETURN
Asset class		
U.S. Equity	51.5%	4.3%
Developed International Equity	13.5	4.9
Emerging Market Equity	1.9	7.8
Core Fixed Income	33.1	1.4
Total	100.0%	

Discount Rate

The discount rate used to measure the total pension liability was 7.0 percent for June 30, 2018 and 2017. The projection of cash flows used to determine the discount rate assumes that CHRCO will make contributions to the Plan under IRC Section 430's minimum requirements for a period of eight years, and that all future assumptions are met. Based on these assumptions, the pension Plan's fiduciary net position is projected to be available to make all projected future benefit payments for current active and inactive employees.

Sensitivity of the Net Pension Liability to the Discount Rate Assumption

The following presents the June 30, 2018 net pension liability calculated using the June 30, 2018 discount rate assumption of 7.0 percent, as well as what the net pension liability would be if it were calculated using a discount rate different than the current assumption:

<i>(in thousands of dollars)</i>	1% DECREASE (6.0%)	CURRENT DISCOUNT (7.0%)	1% INCREASE (8.0%)
Net pension liability	\$91,671	\$24,148	(\$31,644)

Deferred Outflows of Resources and Deferred Inflows of Resources

As of June 30, deferred outflows of resources and deferred inflows of resources were as follows:

<i>(in thousands of dollars)</i>	2018	2017
DEFERRED OUTFLOWS OF RESOURCES		
Difference between expected and actual experience	\$5,714	\$4,356
Changes of benefit terms	178	195
Changes of assumptions	15,659	21,768
Net difference between projected and actual earnings on pension plan investments		1,355
Total	\$21,551	\$27,674
DEFERRED INFLOWS OF RESOURCES		
Difference between expected and actual experience	\$1,709	\$2,370
Net difference between projected and actual earnings on pension plan investments	267	
Total	\$1,976	\$2,370

The net amount of deferred outflows of resources and deferred inflows of resources related to pensions that will be recognized in pension expense during the next five years is as follows:

<i>(in thousands of dollars)</i>	
<i>Year Ending June 30</i>	
2019	\$10,597
2020	8,236
2021	152
2022	158
2023	432
Total	\$19,575

Orange County Employees Retirement System

Orange County Employees Retirement System (OCERS) administers a cost-sharing, multi-employer defined benefit pension plan for the County of Orange, City of San Juan Capistrano and thirteen special districts. Certain employees of one of the University's medical centers were eligible to continue to participate in OCERS at the time the county hospital was acquired by the University.

OCERS provides retirement, disability and death benefits. Plan retirement benefits are tiered based upon date of OCERS membership. Participation in the Plan by the University's employees is closed to new members. The University's share of net pension liability, deferred inflows of resources, deferred outflows of resources and pension expense have been determined based upon its specific actuarial accrued liability and a share of assets allocated in accordance with a formula set forth in OCERS' policy. The fiduciary net position and changes in net position have been measured consistent with the accounting policies used by the OCERS Plan.

Additional information on OCERS can be obtained from the 2017-2018 annual reports of the Orange County Employees Retirement System at <http://www.ocers.org>.

Membership in the OCERS Plan consisted of the following at December 31, 2017: 16,947 retired members and beneficiaries, 5,803 inactive members, 21,721 active members.

Contributions

Contribution rates are set by the OCERS Board of Trustees.

Net Pension Liability

The University's proportionate share of the net pension liability was \$13.8 million and \$18.1 million as of June 30, 2018 and 2017, respectively. The net pension liability for OCERS was measured as of June 30, 2018 and 2017, and the total pension liability was determined by an actuarial valuation as of December 31, 2017 and 2016 rolled forward to June 30, 2018 and 2017, respectively. The actuarial assumptions used in 2018 and 2017 were based on the results of an experience study for the period from January 1, 2011 through December 31, 2013.

The net pension liability for the Plan was calculated based upon the following assumptions as of June 30, 2018: 2.8 percent inflation, 7.0 percent investment rate of return, 4.25-12.25 percent projected salary increases and 3.0 percent cost-of-living adjustments. The net pension liability for the Plan was calculated based upon the following assumptions as of June 30, 2017: 3.0 percent inflation, 7.25 percent investment rate of return, 4.25-13.5 percent projected salary increases and 3.0 percent cost-of-living adjustments.

The target allocation and projected arithmetic real rates of return, after deducting inflation, but before investment expenses, used in the derivation of the long-term expected investment rate of return assumption for each major asset class for the OCERS Plan are as follows:

ORANGE COUNTY EMPLOYEES RETIREMENT SYSTEM		
	TARGET ALLOCATION	LONG-TERM EXPECTED REAL RATE OF RETURN
Asset class		
Global Equity	35.0%	6.4%
Core Bonds	13.0	1.0
High-Yield Bonds	4.0	3.5
Bank Loan	2.0	2.9
TIPS	4.0	1.0
Emerging Market Debt	4.0	3.8
Real Estate	10.0	4.3
Core Infrastructure	2.0	5.5
Natural Resources	10.0	7.9
Risk Mitigation	5.0	4.7
Mezzanine/Distressed Debts	3.0	6.5
Private Equity	8.0	9.5
Total	100.0%	

Discount Rate

The discount rate used to measure the total pension liability was 7.0 percent and 7.25 percent for June 30, 2018 and 2017, respectively. The projection of cash flows used to determine the discount rate assumed plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the actuarially determined contribution rate. For this purpose, only employer contributions will be made at rates equal to the actuarially determined contribution rates.

Sensitivity of the Net Pension Liability to the Discount Rate Assumption

The following presents the current-period net pension liability calculated using the June 30, 2018 discount rate assumption of 7.0 percent, as well as what the net pension liability would be if it were calculated using a discount rate different than the current assumption:

<i>(in thousands of dollars)</i>	ORANGE COUNTY EMPLOYEES RETIREMENT SYSTEM		
	1% Decrease (6.0%)	Current Discount Rate (7.0%)	1% Increase (8.0%)
Net pension liability	\$21,989	\$13,822	\$7,189

Deferred Outflows of Resources and Deferred Inflows of Resources

As of June 30, deferred outflows of resources and deferred inflows of resources were as follows:

<i>(in thousands of dollars)</i>	2018	2017
DEFERRED OUTFLOWS OF RESOURCES		
Changes of assumptions or other inputs	\$1,186	
Difference between expected and actual experience	374	491
Net difference between projected and actual earnings on pension plan investments		586
Total	\$1,560	\$1,077
DEFERRED INFLOWS OF RESOURCES		
Difference between expected and actual experience	\$2,286	\$443
Changes of assumptions or other inputs	482	703
Net difference between projected and actual earnings on pension plan investments	1,887	
Total	\$4,655	\$1,146

The net amount of deferred outflows of resources and deferred inflows of resources related to pensions that will be recognized in pension expense during the next five years and thereafter is as follows:

<i>(in thousands of dollars)</i>	
<i>Year Ending June 30</i>	
2019	(\$848)
2020	(511)
2021	(856)
2022	(720)
2023	(159)
2024	(1)
Total	(\$3,095)

16. RETIREE HEALTH BENEFIT COSTS AND OBLIGATIONS

The University administers single-employer health and welfare plans to provide health and welfare benefits, primarily medical, dental and vision, to eligible retirees (and their eligible family members) of the University of California and its affiliates through the University of California Retiree Health Benefit Trust (UCRHBT). The Regents has the authority to establish and amend the plan.

Campus and medical center contributions toward retiree health benefits, at rates determined by the University, are made to UCRHBT. The University receives retiree health contributions from retirees that are deducted from their UCRP benefit payments. The University acts as a third-party administrator on behalf of UCRHBT and pays health care insurers and administrators amounts currently due under the University's retiree health benefit plans for retirees. UCRHBT reimburses the University for these amounts.

LBNL participates in the University's retiree health plans. LBNL does not participate in UCRHBT; therefore, the DOE has no interest in the Trust's assets. The University directly pays health care insurers and administrators amounts currently due under the University's retiree health benefit plans for retirees who previously worked at LBNL, and is reimbursed by the DOE.

Condensed financial information for the changes in retiree health benefits liability for the year ended June 30, 2018 is as follows:

<i>(in thousands of dollars)</i>	CAMPUSES AND MEDICAL CENTERS	LBNL	UNIVERSITY OF CALIFORNIA
Contributions	\$512,571	\$21,266	\$533,837
Investment income, net	1,634		1,634
Total additions	514,205	21,266	535,471
Insurance premiums, net	(483,479)	(21,266)	(504,745)
Other deductions	(3,859)		(3,859)
Total deductions	(487,338)	(21,266)	(508,604)
Increase in net position held in UCRHBT	26,867		26,867
Net position held in UCRHBT, beginning of year	106,714		106,714
Net position held in UCRHBT, end of year	\$133,581		\$133,581

<i>(in thousands of dollars)</i>	CAMPUSES AND MEDICAL CENTERS	LBNL	UNIVERSITY OF CALIFORNIA
CHANGES IN TOTAL RETIREE HEALTH BENEFITS LIABILITY			
Service cost	\$816,483	\$18,671	\$835,154
Interest	694,562	22,215	716,777
Difference between expected and actual experience	(1,149,032)	(24,710)	(1,173,742)
Changes of assumptions and other inputs	(353,516)	(1,069)	(354,585)
Benefits paid	(483,479)	(21,266)	(504,745)
Retiree contributions	76,873	2,976	79,849
Net change in total retiree health benefits liability	(398,109)	(3,183)	(401,292)
Total retiree health benefits liability			
Beginning of year	18,786,201	610,937	19,397,138
End of year	\$18,388,092	\$607,754	\$18,995,846
Net retiree health benefit liability, end of year	\$18,254,511	\$607,754	\$18,862,265

Benefits

Retirees are eligible for medical and dental benefits. The costs of the medical and dental benefits are shared between the University and the retiree. The University does not contribute toward the cost of other benefits available to retirees. Retirees who are employed by the University after July 1, 2013, and retire at the age of 56 or older, become eligible for a percentage of the University's contribution based on age and years of service. Retirees are eligible for the maximum University contribution at age 65 with 20 or more years of service. Retirees employed by the University prior to 1990 and not rehired after that date are eligible for the University's maximum contribution if they retire before age 55 and have at least 10 years of service, or if they retire at age 55 or later and have at least 5 years of service. Retirees employed by the University after 1989 are subject to graduated eligibility provisions that generally require 10 years of service before becoming eligible for 50 percent of the maximum University contribution, increasing to 100 percent after 20 years of service. Retirees pay the excess, if any, of the premium over the applicable portion of the University's contribution.

Membership in UCRP is required to become eligible for retiree health benefits. Participation in the retiree health benefit plans consisted of the following at June 30, 2018:

	CAMPUSES AND MEDICAL CENTERS	LBNL	UNIVERSITY OF CALIFORNIA
Retirees and beneficiaries receiving benefits	42,325	1,841	44,166
Active members entitled to, but not yet receiving benefits	127,330	2,534	129,864
Total membership	169,655	4,375	174,030

Contributions

The University does not pre-fund retiree health benefits and instead provides for benefits based upon projected pay-as-you-go financing. University and retiree contributions toward premiums made under purchased plan arrangements are determined by applying the health plan contract rates across the number of participants in the respective plans. Premium rates for the self-insured plan contributions are set by the University based upon a trend analysis of the historic cost, utilization, demographics and administrative expenses to provide for the claims incurred and the actuarially determined level of incurred but not reported liability. The assessment rates were \$2.80 and \$2.93 per \$100 of UCRP covered payroll effective July 1, 2017 and 2016, respectively.

In addition to the explicit University contribution provided to retirees, there is an “implicit subsidy.” The gross premiums for members that are not currently eligible for Medicare benefits are the same for active employees and retirees, based on a blend of their health costs. Retirees, on average, are expected to have higher health care costs than active employees. This is primarily due to the older average age of retirees. Since the same gross premiums apply to both groups, the premiums paid for active employees by the University are subsidizing the premiums for retirees. This effect is called the implicit subsidy. The implicit subsidy associated with retiree health costs paid during the past year is also considered to be a contribution from the University.

Net Retiree Health Benefits Liability

The University’s net retiree health benefits liability was measured as of June 30 based on rolling forward the results of the actuarial valuations as of July 1, one year prior to the measurement date. Actuarial valuations represent a long-term perspective and involve estimates of the value of reported benefits and assumptions about the probability of occurrence of events far into the future. Significant actuarial methods and assumptions used to calculate the University’s net retiree health benefits liability were:

<i>(shown as percentage)</i>	2018	2017
Discount rate	3.9%	3.6%
Inflation	3.0	3.0
Investment rate of return	3.0	3.0
Health care cost trend rates	Initially ranges from 5.0 to 9.3 decreasing to an ultimate rate of 5.0 for 2033 and later years.	Initially ranges from 5.0 to 9.5 decreasing to an ultimate rate of 5.0 for 2032 and later years.

The actuarial assumptions are based upon the results of an experience study conducted for the period of July 1, 2010 through June 30, 2014. For active members and healthy retirees, the RP-2014 White Collar Mortality Tables are used (separate tables for males and females), projected with the two-dimensional MP-2014 projection scale to 2029, and with ages then set forward one year. For disabled members, rates are based on the RP-2014 Disabled Retiree Mortality Table, projected with the two-dimensional MP-2014 projection scale to 2029 and with ages then set back one year for males and set forward five years for females.

Sensitivity of Net Retiree Health Benefits Liability to the Health Care Cost Trend Rate

The following presents the June 30, 2018 net retiree health benefits liability of the University calculated using the June 30, 2018 health care cost trend rate assumption with initial trend ranging from 5.0 percent to 9.3 percent grading down to an ultimate trend of 5.0 percent over 15 years, as well as what the net retiree health benefits liability would be if it were calculated using a health care cost trend rate different than the current assumption:

<i>(in thousands of dollars)</i>	1% DECREASE (4.0% TO 8.3% DECREASING TO 4.0%)	CURRENT DISCOUNT (5.0% TO 9.3% DECREASING TO 5.0%)	1% INCREASE (6.0% - 10.3% INCREASING TO 6.0%)
Net retiree health benefits liability	\$16,021,231	\$18,862,265	\$22,517,469

Discount Rate

The discount rate used to estimate the net retiree health benefits liability as of June 30, 2018 and 2017 was 3.87 percent and 3.58 percent, respectively. The discount rate was based on the Bond Buyer 20-year tax-exempt general obligations municipal bond index rate since UCHRBT plan assets are not sufficient to make benefit payments.

Sensitivity of Net Retiree Health Benefits Liability to the Discount Rate Assumption

The following presents the June 30, 2018 net retiree health benefits liability of the University calculated using the June 30, 2018 discount rate assumption of 3.87 percent, as well as what the net retiree health benefits liability would be if it were calculated using a discount rate different than the current assumption:

<i>(in thousands of dollars)</i>	1% DECREASE (2.87%)	CURRENT TREND (3.87%)	1% INCREASE (4.87%)
Net retiree health benefits liability	\$22,371,868	\$18,862,265	\$16,069,882

Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred outflows of resources and deferred inflows of resources for retiree health benefits were related to the following sources:

(in thousands of dollars)

2018	CAMPUSES AND MEDICAL CENTERS	LBNL	UNIVERSITY OF CALIFORNIA
DEFERRED OUTFLOWS OF RESOURCES			
Difference between expected and actual experience	\$74,770	\$4,142	\$78,912
Changes of assumptions or other inputs	3,340,913	92,220	3,433,133
Net difference between projected and actual earnings on plan investments	3,815		3,815
Total	\$3,419,498	\$96,362	\$3,515,860
DEFERRED INFLOWS OF RESOURCES			
Difference between expected and actual experience	\$2,279,073	\$62,148	\$2,341,221
Changes of assumptions or other inputs	3,220,923	83,384	3,304,307
Total	\$5,499,996	\$145,532	\$5,645,528

(in thousands of dollars)

2017	CAMPUSES AND MEDICAL CENTERS	LBNL	UNIVERSITY OF CALIFORNIA
DEFERRED OUTFLOWS OF RESOURCES			
Difference between expected and actual experience	\$85,012	\$5,084	\$90,096
Changes of assumptions or other inputs	3,897,003	116,490	4,013,493
Net difference between projected and actual earnings on plan investments	3,352		3,352
Total	\$3,985,367	\$121,574	\$4,106,941
DEFERRED INFLOWS OF RESOURCES			
Difference between expected and actual experience	\$1,471,781	\$52,216	\$1,523,997
Changes of assumptions or other inputs	3,309,220	101,253	3,410,473
Total	\$4,781,001	\$153,469	\$4,934,470

The net amount of deferred outflows of resources and deferred inflows of resources as of June 30, 2018 related to retiree health benefits that will be recognized in retiree health benefit expense during the next five years and thereafter are as follows:

(in thousands of dollars)

	CAMPUSES AND MEDICAL CENTERS	LBNL	UNIVERSITY OF CALIFORNIA
2019	(\$215,739)	(\$8,504)	(\$224,243)
2020	(216,078)	(8,504)	(224,582)
2021	(216,418)	(8,504)	(224,922)
2022	(216,831)	(13,365)	(230,196)
2023	(217,224)	(10,293)	(227,517)
Thereafter	(998,208)		(998,208)
Total	(\$2,080,498)	(\$49,170)	(\$2,129,668)

17. ENDOWMENTS AND GIFTS

Endowments and gifts are held and administered either by the University or by the campus foundations.

University of California

The value of endowments and gifts held and administered by the University, exclusive of income distributed to be used for operating purposes, at June 30, 2018 and 2017 are as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA			
	RESTRICTED NONEXPENDABLE	RESTRICTED EXPENDABLE	UNRESTRICTED	TOTAL
<i>At June 30, 2018</i>				
Endowments	\$1,148,699	\$3,123,815	\$5,861	\$4,278,375
Funds functioning as endowments		2,653,219	4,439,270	7,092,489
Gifts		1,630,200		1,630,200
University endowments and gifts	\$1,148,699	\$7,407,234	\$4,445,131	\$13,001,064
<i>At June 30, 2017</i>				
Endowments	\$1,121,743	\$2,921,277	\$5,414	\$4,048,434
Funds functioning as endowments		2,526,811	3,742,764	6,269,575
Gifts		1,423,479		1,423,479
University endowments and gifts	\$1,121,743	\$6,871,567	\$3,748,178	\$11,741,488

The University's endowment income distribution policies are designed to preserve the value of the endowment in real terms (after inflation) and to generate a predictable stream of spendable income. Endowment investments are managed to achieve the maximum long-term total return. As a result of this emphasis on total return, the proportion of the annual income distribution provided by dividend and interest income and by capital gains may vary significantly from year to year. The University's policy is to retain the realized and unrealized appreciation with the endowment after the annual income distribution has been made. The net appreciation available to meet future spending needs is subject to the approval of The Regents and amounted to \$2.6 billion and \$2.4 billion at June 30, 2018 and 2017, respectively.

The portion of investment returns earned on endowments held by the University and distributed at the end of each year to support current operations for the following year is based upon a rate that is approved by The Regents. The annual income distribution transferred to the campuses from endowments held by the University was \$315.1 million and \$277.2 million for the years ended June 30, 2018 and 2017, respectively. The portion of this annual income distribution from accumulated capital gains, in addition to the dividend and interest income earned during the year, was \$283.4 million and \$253.8 million for the years ended June 30, 2018 and 2017, respectively. Accumulated endowment income available for spending in the future, including the annual income distribution, was \$689.4 million and \$629.8 million at June 30, 2018 and 2017, respectively.

Campus Foundations

The value of endowments and gifts held by the campus foundations and administered by each of their independent Board of Trustees at June 30 are as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS			
	RESTRICTED NONEXPENDABLE	RESTRICTED EXPENDABLE	UNRESTRICTED	TOTAL
<i>At June 30, 2018</i>				
Endowments	\$4,408,143	\$1,465,623		\$5,873,766
Funds functioning as endowments		1,839,813		1,839,813
Gifts		1,660,232	\$429,581	2,089,813
Campus foundations' endowments and gifts	\$4,408,143	\$4,965,668	\$429,581	\$9,803,392
<i>At June 30, 2017</i>				
Endowments	\$3,967,219	\$1,246,890		\$5,214,109
Funds functioning as endowments		1,515,774		1,515,774
Gifts		1,542,757	\$193,132	1,735,889
Campus foundations' endowments and gifts	\$3,967,219	\$4,305,421	\$193,132	\$8,465,772

18. SEGMENT INFORMATION

The University's medical centers' and CHRCO's revenues are pledged in support of the outstanding University of California Medical Center Pooled Revenue Bonds. The medical centers' operating revenues and expenses consist primarily of revenues associated with patient care and the related costs of providing that care.

Condensed financial statement information related to each of the University's medical centers for the year ended June 30, 2018 is as follows:

UNIVERSITY OF CALIFORNIA MEDICAL CENTERS					
<i>(in thousands of dollars)</i>	DAVIS	IRVINE	LOS ANGELES	SAN DIEGO	SAN FRANCISCO
<i>Year Ended June 30, 2018</i>					
Revenue bonds outstanding	\$319,685	\$316,560	\$717,840	\$700,975	\$910,600
Related debt service payments	31,566	18,199	41,504	42,372	56,315
Bonds due serially through	2048	2049	2049	2049	2049
CONDENSED STATEMENT OF NET POSITION					
Current assets	\$1,139,430	\$588,986	\$1,666,222	\$754,844	\$1,648,154
Capital assets, net	1,080,332	759,413	1,717,689	1,661,760	2,375,485
Other assets	151,231	41,547	105,689	24,352	293,397
Total assets	2,370,993	1,389,946	3,489,600	2,440,956	4,317,036
Total deferred outflows of resources	330,997	128,954	454,015	401,567	775,863
Current liabilities	408,938	230,244	471,304	246,776	655,904
Long-term debt	342,030	335,335	908,811	792,429	922,666
Other noncurrent liabilities	2,126,078	979,793	2,454,479	1,619,329	3,105,237
Total liabilities	2,877,046	1,545,372	3,834,594	2,658,534	4,683,807
Total deferred inflows of resources	388,442	234,578	447,245	274,761	583,859
Net investment in capital assets	698,049	421,341	780,373	847,607	1,447,759
Restricted	45,783	41,547	10,884		77,245
Unrestricted	(1,307,330)	(723,938)	(1,129,481)	(938,379)	(1,699,771)
Total net position	(\$563,498)	(\$261,050)	(\$338,224)	(\$90,772)	(\$174,767)

UNIVERSITY OF CALIFORNIA MEDICAL CENTERS					
<i>(in thousands of dollars)</i>	DAVIS	IRVINE	LOS ANGELES	SAN DIEGO	SAN FRANCISCO
CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION					
Operating revenues	\$2,221,761	\$1,177,504	\$2,514,065	\$1,938,229	\$4,370,406
Operating expenses	(1,969,238)	(963,940)	(2,246,262)	(1,720,386)	(4,025,824)
Depreciation expense	(76,331)	(78,723)	(147,785)	(93,379)	(216,292)
Operating income	176,192	134,841	120,018	124,464	128,290
Nonoperating revenues (expenses), net	15,612	(12,761)	9,872	(24,959)	46,189
Income before other changes in net position	191,804	122,080	129,890	99,505	174,479
Health systems support	(30,285)	(48,173)	(212,827)	(124,055)	(116,286)
Transfers (to) from University, net	(19,570)	6,198	12,629	(3,034)	15,850
Changes in allocation for pension payable to University	2,032	9,523	(1,148)	(10,528)	(3,175)
Other, including donated assets	1,066	1,566	(466)	(17,984)	122,071
Increase (decrease) in net position	145,047	91,194	(71,922)	(56,096)	192,939
Net position - beginning of year	(708,545)	(352,244)	(266,302)	(34,676)	(367,706)
Net position - June 30, 2018	(\$563,498)	(\$261,050)	(\$338,224)	(\$90,772)	(\$174,767)

CONDENSED STATEMENT OF CASH FLOWS

Net cash provided (used) by:

Operating activities	\$237,543	\$126,943	\$353,639	\$170,516	\$380,406
Noncapital financing activities	(42,810)	(49,646)	(268,614)	(129,729)	(78,010)
Capital and related financing activities	(137,245)	(109,604)	(171,333)	(154,010)	(134,092)
Investing activities	55,262	21,289	22,477	11,949	28,383
Net increase (decrease) in cash and cash equivalents	112,750	(11,018)	(63,831)	(101,274)	196,687
Cash and cash equivalents* - June 30, 2017	628,409	342,862	1,007,761	394,822	626,724
Cash and cash equivalents* - June 30, 2018	\$741,159	\$331,844	\$943,930	\$293,548	\$823,411

*Cash and cash equivalents on the medical centers' financial statements are included in the University's Short Term Investment Pool.

Condensed financial statement information related to each of the University's medical centers for the year ended June 30, 2017 is as follows:

UNIVERSITY OF CALIFORNIA MEDICAL CENTERS					
<i>(in thousands of dollars)</i>	DAVIS	IRVINE	LOS ANGELES	SAN DIEGO	SAN FRANCISCO
<i>Year Ended June 30, 2017</i>					
Revenue bonds outstanding	\$337,570	\$317,870	\$729,825	\$711,085	\$914,810
Related debt service payments	32,491	18,190	46,008	42,662	57,013
Bonds due serially through	2047	2049	2049	2049	2049
CONDENSED STATEMENT OF NET POSITION					
Current assets	\$999,025	\$527,151	\$1,471,268	\$740,767	\$1,335,527
Capital assets, net	1,030,246	734,509	1,749,540	1,620,948	2,349,538
Other assets	104,942	69,703	322,112	31,380	285,796
Total assets	2,134,213	1,331,363	3,542,920	2,393,095	3,970,861
Total deferred outflows of resources	362,917	160,399	516,101	345,110	836,506
Current liabilities	328,609	270,520	404,441	231,802	592,470
Long-term debt	362,743	338,340	934,794	754,170	928,264
Other noncurrent liabilities	2,145,257	1,030,129	2,564,310	1,535,743	3,106,945
Total liabilities	2,836,609	1,638,989	3,903,545	2,521,715	4,627,679
Total deferred inflows of resources	369,066	205,017	421,778	251,166	547,394
Net investment in capital assets	640,415	393,404	790,467	857,221	1,396,747
Restricted	86,748	69,703	11,138		89,739
Unrestricted	(1,435,708)	(815,351)	(1,067,907)	(891,897)	(1,854,192)
Total net position	(\$708,545)	(\$352,244)	(\$266,302)	(\$34,676)	(\$367,706)

UNIVERSITY OF CALIFORNIA MEDICAL CENTERS					
<i>(in thousands of dollars)</i>	DAVIS	IRVINE	LOS ANGELES	SAN DIEGO	SAN FRANCISCO
CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION					
Operating revenues	\$2,147,374	\$1,116,327	\$2,502,552	\$1,688,162	\$3,951,754
Operating expenses	(1,904,823)	(981,506)	(2,241,931)	(1,591,807)	(3,792,538)
Depreciation expense	(78,839)	(69,271)	(142,841)	(76,779)	(210,913)
Operating income	163,712	65,550	117,780	19,576	(51,697)
Nonoperating revenues (expenses), net	9,467	(17,961)	(36,579)	(10,470)	24,134
Income before other changes in net position	173,179	47,589	81,201	9,106	(27,563)
Health systems support	(28,088)	(59,727)	(175,341)	(109,586)	(84,898)
Transfers (to) from University, net	(4,349)			(404)	89
Changes in allocation for pension payable to University	1,892	7,266	5,834	(9,130)	6,506
Other, including donated assets	983	1,756	3,500	30,218	30,715
Increase (decrease) in net position	143,617	(3,116)	(84,806)	(79,796)	(75,151)
Net position - beginning of year:					
Beginning of year, as previously reported	(852,162)	(349,128)	(181,496)	45,120	(291,416)
Cumulative effect of accounting change					(1,139)
Beginning of year, as restated	(852,162)	(349,128)	(181,496)	45,120	(292,555)
Net position - June 30, 2017	(\$708,545)	(\$352,244)	(\$266,302)	(\$34,676)	(\$367,706)

CONDENSED STATEMENT OF CASH FLOWS					
Net cash provided (used) by:					
Operating activities	\$289,030	\$257,072	\$304,081	\$166,061	\$390,971
Noncapital financing activities	(29,396)	(59,134)	(173,112)	(112,361)	(62,856)
Capital and related financing activities	(25,665)	(30,292)	(43,206)	(135,525)	(136,759)
Investing activities	(70,468)	(78,116)	16,381	11,058	(15,333)
Net increase (decrease) in cash and cash equivalents	163,501	89,530	104,144	(70,767)	176,023
Cash and cash equivalents* - June 30, 2016	464,908	253,332	903,617	465,589	450,701
Cash and cash equivalents* - June 30, 2017	\$628,409	\$342,862	\$1,007,761	\$394,822	\$626,724

*Cash and cash equivalents on the medical centers' financial statements are included in the University's Short Term Investment Pool.

Summarized financial information for each medical center is from the medical centers' audited financial statements. Certain revenue, such as financial support from the state for clinical teaching programs, is classified as state educational appropriations rather than

medical center revenue in the University's statement of revenues, expenses and changes in net position. However, in the medical centers' audited financial statements and for segment reporting purposes, these revenues are classified as operating revenue. Additional information on the individual University of California medical centers can be obtained from their audited financial statements which are available at <http://reportingtransparency.universityofcalifornia.edu>.

Certain revenue generating projects (including student and faculty housing, parking facilities, student centers, recreation and events facilities, student health facilities and athletics facilities) are also financed by Limited Project Revenue Bonds; however, assets and liabilities are not required to be accounted for separately.

19. BLENDED COMPONENT UNIT INFORMATION

Condensed financial statement information related to certain of the University's blended component units for the years ended June 30, are as follows:

<i>(in thousands of dollars)</i>	FIAT LUX		CHRCO	
	2018	2017	2018	2017
CONDENSED STATEMENTS OF NET POSITION				
Current assets	\$314,210	\$543,817	\$311,603	\$249,445
Capital assets, net			325,396	295,766
Other assets	775,010	393,049	269,174	266,607
Total assets	1,089,220	936,866	906,173	811,818
Total deferred outflows of resources			21,551	27,674
Current liabilities	282,264	205,073	193,228	104,878
Other noncurrent liabilities	685,574	583,779	156,024	174,519
Total liabilities	967,838	788,852	349,252	279,397
Total deferred inflows of resources			15,942	16,714
Net investment in capital assets			222,341	191,683
Restricted			66,759	79,945
Unrestricted	121,382	148,014	273,430	271,753
Total net position	\$121,382	\$148,014	\$562,530	\$543,381
CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION				
Operating revenues	\$239,201	\$216,407	\$591,608	\$597,564
Operating expenses	(283,309)	(242,706)	(582,955)	(558,460)
Depreciation expense			(35,946)	(33,842)
Operating income (loss)	(44,108)	(26,299)	(27,293)	5,262
Nonoperating revenues (expenses), net	17,473	12,767	44,428	42,218
Income (loss) before other changes in net position	(26,635)	(13,532)	17,135	47,480
Transfers from University		157,129		
Other, including donated assets	3		2,014	17,450
Increase (decrease) in net position	(26,632)	143,597	19,149	64,930
Net position – beginning of year:				
Beginning of year, as previously reported	148,014	4,417	543,381	479,590
Cumulative effect of accounting change				(1,139)
Beginning of year, as restated	148,014	4,417	543,381	478,451
Net position – end of year	\$121,382	\$148,014	\$562,530	\$543,381
CONDENSED STATEMENT OF CASH FLOWS				
<i>Net cash provided (used) by:</i>				
Operating activities	\$67,426	\$49,463	\$37,520	\$37,041
Noncapital financing activities	3		23,462	19,523
Capital and related financing activities		786,167	(56,953)	5,336
Investing activities	(11,810)	(850,563)	18,657	(14,452)
Net increase (decrease) in cash and cash equivalents	55,619	(14,933)	22,686	47,448
Cash and cash equivalents – beginning of year	702	15,635	118,862	71,414
Cash and cash equivalents – end of year	\$56,321	\$702	\$141,548	\$118,862

CHRCO's other assets include investments in the UCSF Foundation's Endowed Investment Pool of \$234.4 million and \$212.7 million at June 30, 2018 and 2017.

Additional information on the blended component units can be found in their separately issued audited financial statements, which can be obtained by contacting Fiat Lux.

20. CAMPUS FOUNDATIONS INFORMATION

Under University policies approved by The Regents, each individual campus may establish a separate foundation to provide valuable assistance in fundraising, public outreach and other support for the missions of the campus and the University. Although independent boards govern these foundations, their assets are dedicated for the benefit of the University of California.

Condensed financial statement information related to the University's campus foundations, including their allocated share of the assets and liabilities associated with securities lending transactions in the University's investment pools, for the year ended June 30, 2018 is as follows:

	UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS				
<i>(in thousands of dollars)</i>	BERKELEY	SAN FRANCISCO	LOS ANGELES	ALL OTHER	TOTAL
CONDENSED STATEMENT OF NET POSITION					
Current assets	\$107,922	\$474,253	\$686,801	\$329,443	\$1,598,419
Noncurrent assets	2,192,958	1,715,100	2,875,851	2,489,432	9,273,341
Total assets	2,300,880	2,189,353	3,562,652	2,818,875	10,871,760
Current liabilities	16,540	37,777	301,390	59,427	415,134
Noncurrent liabilities	79,454	272,184	32,680	36,898	421,216
Total liabilities	95,994	309,961	334,070	96,325	836,350
Total deferred inflows of resources	69,523	28,909	50,826	82,760	232,018
Restricted	2,132,259	1,850,079	2,785,000	2,606,473	9,373,811
Unrestricted	3,104	404	392,756	33,317	429,581
Total net position	\$2,135,363	\$1,850,483	\$3,177,756	\$2,639,790	\$9,803,392
CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION					
Operating revenues	\$181,523	\$356,891	\$526,446	\$276,535	\$1,341,395
Operating expenses	(237,177)	(293,986)	(354,556)	(250,485)	(1,136,204)
Operating income (loss)	(55,654)	62,905	171,890	26,050	205,191
Nonoperating revenues	156,996	198,747	202,766	165,213	723,722
Income before other changes in net position	101,342	261,652	374,656	191,263	928,913
Permanent endowments	79,970	104,342	79,895	144,500	408,707
Increase in net position	181,312	365,994	454,551	335,763	1,337,620
Net position - June 30, 2017					
Beginning of year	1,954,051	1,484,489	2,723,205	2,304,027	8,465,772
Net position - June 30, 2018	\$2,135,363	\$1,850,483	\$3,177,756	\$2,639,790	\$9,803,392
CONDENSED STATEMENT OF CASH FLOWS					
<i>Net cash provided (used) by:</i>					
Operating activities	(\$82,042)	(\$81,653)	\$116,294	(\$83,433)	(\$130,834)
Noncapital financing activities	61,846	105,665	67,843	120,178	355,532
Investing activities	21,888	161,997	(184,816)	(30,490)	(31,421)
Net increase (decrease) in cash and cash equivalents	1,692	186,009	(679)	6,255	193,277
Cash and cash equivalents - June 30, 2017	4,587	210,860	5,278	33,375	254,100
Cash and cash equivalents - June 30, 2018	\$6,279	\$396,869	\$4,599	\$39,630	\$447,377

Condensed financial statement information related to the University's campus foundations, including their allocated share of the assets and liabilities associated with securities lending transactions in the University's investment pools, for the year ended June 30, 2017 is as follows:

UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS					
<i>(in thousands of dollars)</i>	BERKELEY	SAN FRANCISCO	LOS ANGELES	ALL OTHER	TOTAL
CONDENSED STATEMENT OF NET POSITION					
Current assets	\$76,070	\$286,739	\$490,034	\$350,732	\$1,203,575
Noncurrent assets	2,040,520	1,513,089	2,575,961	2,170,788	8,300,358
Total assets	2,116,590	1,799,828	3,065,995	2,521,520	9,503,933
Current liabilities	16,379	39,032	263,015	119,296	437,722
Noncurrent liabilities	78,392	254,620	32,449	25,540	391,001
Total liabilities	94,771	293,652	295,464	144,836	828,723
Total deferred inflows of resources	67,768	21,687	47,326	72,657	209,438
Restricted	1,949,666	1,484,076	2,565,752	2,273,146	8,272,640
Unrestricted	4,385	413	157,453	30,881	193,132
Total net position	\$1,954,051	\$1,484,489	\$2,723,205	\$2,304,027	\$8,465,772
CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION					
Operating revenues	\$115,579	\$155,086	\$302,778	\$294,067	\$867,510
Operating expenses	(208,956)	(231,647)	(292,156)	(236,756)	(969,515)
Operating income (loss)	(93,377)	(76,561)	10,622	57,311	(102,005)
Nonoperating revenues	211,334	154,270	260,271	239,439	865,314
Income before other changes in net position	117,957	77,709	270,893	296,750	763,309
Permanent endowments	67,632	41,513	69,673	108,106	286,924
Increase in net position	185,589	119,222	340,566	404,856	1,050,233
Net Position – June 30, 2016					
Beginning of year, as previously reported	1,828,044	1,381,590	2,411,412	1,915,804	7,536,850
Cumulative effect of accounting change	(59,582)	(16,323)	(28,773)	(16,633)	(121,311)
Beginning of year, as restated	1,768,462	1,365,267	2,382,639	1,899,171	7,415,539
Net position – June 30, 2017	\$1,954,051	\$1,484,489	\$2,723,205	\$2,304,027	\$8,465,772
CONDENSED STATEMENT OF CASH FLOWS					
<i>Net cash provided (used) by:</i>					
Operating activities	(\$97,936)	(\$101,825)	(\$39,570)	\$19,839	(\$219,492)
Noncapital financing activities	49,682	55,862	51,395	94,099	251,038
Capital and related financing activities				(192)	(192)
Investing activities	49,184	104,796	(12,123)	(114,025)	27,832
Net increase (decrease) in cash and cash equivalents	930	58,833	(298)	(279)	59,186
Cash and cash equivalents – June 30, 2016	3,657	152,027	5,576	33,654	194,914
Cash and cash equivalents – June 30, 2017	\$4,587	\$210,860	\$5,278	\$33,375	\$254,100

Additional information on the foundations can be found in the foundations' separately issued annual reports, which can be obtained by contacting the individual foundation.

21. COMMITMENTS AND CONTINGENCIES

Contractual Commitments

Amounts committed but unexpended for construction projects totaled \$2.8 billion at June 30, 2018. Amounts committed to the developer for the design, construction and financing of the facilities at one of its campuses is \$1.3 billion at June 30, 2018. The University has made a commitment to contribute \$49.8 million for an investment in a joint venture to fund construction projects.

Under an agreement with a private, non-profit hospital, the University paid \$20.0 million of contributions in September 2018, and committed to provide \$90.0 million in aggregate capital investments through a series of newly formed joint ventures with one of its medical centers over the course of the initial 10 years of the agreement. An additional service agreement was signed for the medical center to operate certain outpatient clinics whose sole corporate member is the same non-profit hospital.

The University leases land, buildings and equipment under agreements recorded as operating leases. Operating lease expenses for the years ended June 30, 2018 and 2017 were \$335.5 million and \$271.4 million, respectively. The terms of operating leases extend through March 2042.

Future minimum payments on operating leases with an initial or remaining non-cancelable term in excess of one year are as follows:

<i>(in thousands of dollars)</i>	
UNIVERSITY OF CALIFORNIA	
<i>Year Ending June 30</i>	
2019	\$260,836
2020	224,417
2021	177,867
2022	139,792
2023	105,760
2024 - 2028	255,274
2029 - 2033	114,608
2034 - 2038	42,047
2039 - 2043	14,982
Total	\$1,335,583

Contingencies

Substantial amounts are received and expended by the University, including its medical centers, under federal and state programs, and are subject to audit by cognizant governmental agencies. This funding relates to research, student aid, medical center operations and other programs. University management believes that any liabilities arising from such audits will not have a material effect on the University's financial position.

The University and the campus foundations are contingently liable in connection with certain other claims and contracts, including those currently in litigation, arising in the normal course of its activities. Although there are inherent uncertainties in any litigation, University management and general counsel are of the opinion that the outcome of such matters will not have a material effect on the University's financial position.

Required Supplementary Information (Unaudited)

UCRP

The schedule of changes in net pension liability includes multi-year trend information about whether the pension assets are increasing or decreasing over time relative to the pension liabilities. The University's schedule of changes in the net pension liability for UCRP as of June 30 is:

<i>(in thousands of dollars)</i>	2018	2017	2016	2015
TOTAL PENSION LIABILITY				
Service cost	\$1,873,004	\$1,807,143	\$1,710,241	\$1,589,267
Interest on the total pension liability	5,295,733	5,035,267	4,784,904	4,538,846
Difference between expected and actual experience	138,419	74,664	136,167	(112,155)
Changes of assumptions or other inputs				2,136,793
Benefits paid, including refunds of employee contributions	(3,587,554)	(3,320,990)	(3,105,641)	(2,976,992)
Net change in total pension liability	3,719,602	3,596,084	3,525,671	5,175,759
Total pension liability - beginning of year	72,826,846	69,230,762	65,705,091	60,529,332
Total pension liability - end of year	76,546,448	72,826,846	69,230,762	65,705,091
PLAN NET POSITION				
Contributions - employer	2,335,874	2,385,576	2,426,683	2,510,046
Contributions - member	941,144	891,987	845,036	793,012
Contributions - state	169,000	171,000	96,000	
Net investment income	4,837,552	7,866,281	(1,104,655)	1,993,801
Benefits paid, including refunds of employee contributions	(3,587,554)	(3,320,990)	(3,105,642)	(2,976,993)
Administrative expense	(36,684)	(44,128)	(48,340)	(48,283)
Net change in plan net position	4,659,332	7,949,726	(890,918)	2,271,583
Plan net position - beginning of year	62,114,258	54,164,532	55,055,450	52,783,867
Plan net position - end of year	66,773,590	62,114,258	54,164,532	55,055,450
Net pension liability - end of year	\$9,772,858	\$10,712,588	\$15,066,230	\$10,649,641

<i>(in thousands of dollars)</i>	2014	2013	2012
TOTAL PENSION LIABILITY			
Service cost	\$1,519,183	\$1,456,761	\$1,531,094
Interest on the total pension liability	4,316,728	4,112,461	3,871,146
Difference between expected and actual experience	(320,624)	(183,253)	(212,758)
Changes of assumptions or other inputs		(3,312,815)	4,923,778
Benefits paid, including refunds of employee contributions	(2,687,540)	(2,487,369)	(2,273,071)
Net change in total pension liability	2,827,747	(414,215)	7,840,189
Total pension liability - beginning of year	57,701,585	58,115,800	50,275,611
Total pension liability - end of year	60,529,332	57,701,585	58,115,800
PLAN NET POSITION			
Contributions - employer	1,580,876	810,056	1,851,460
Contributions - member	577,466	415,641	272,420
Net investment income	8,009,980	4,833,339	115,863
Benefits paid, including refunds of employee contributions	(2,687,540)	(2,487,369)	(2,273,071)
Administrative expense	(37,641)	(37,426)	(32,839)
Net change in plan net position	7,443,141	3,534,241	(66,167)
Plan net position - beginning of year	45,340,726	41,806,485	41,872,652
Plan net position - end of year	52,783,867	45,340,726	41,806,485
Net pension liability - end of year	\$7,745,465	\$12,360,859	\$16,309,315

The University's schedule of net pension liability for UCRP as of June 30 is:

<i>(in thousands of dollars)</i>	2018	2017	2016	2015
Total pension liability	\$76,546,448	\$72,826,846	\$69,230,762	\$65,705,091
Plan net position	66,773,590	62,114,258	54,164,532	55,055,450
Net pension liability	\$9,772,858	\$10,712,588	\$15,066,230	\$10,649,641
Ratio of plan net position to total pension liability	87.2%	85.3%	78.2%	83.8%
Covered payroll	\$11,923,489	\$11,301,506	\$10,689,424	\$10,047,570
Net pension liability as a percentage of covered payroll	82.0%	94.8%	140.9%	106.0%

<i>(in thousands of dollars)</i>	2014	2013	2012
Total pension liability	\$60,529,332	\$57,701,585	\$58,115,800
Plan net position	52,783,867	45,340,726	41,806,485
Net pension liability	\$7,745,465	\$12,360,859	\$16,309,315
Ratio of plan net position to total pension liability	87.2%	78.6%	71.9%
Covered payroll	\$9,372,583	\$8,921,077	\$8,594,147
Net pension liability as a percentage of covered payroll	82.6%	138.6%	189.8%

The University's schedule of employer contributions for UCRP as of June 30 is:

(in thousands of dollars)

Year Ended June 30	Actuarially Determined Contributions	Contributions in Relation to Actuarial Contributions	Contribution Deficiency (Excess)	Covered Payroll	Contributions as a Percentage of Covered Payroll
2018	\$2,669,169	\$2,504,874	\$164,295	\$11,923,489	21%
2017	2,654,710	2,556,576	98,134	11,301,506	23
2016	2,610,953	2,522,683	88,270	10,689,424	24
2015	2,664,384	2,510,046	154,338	10,047,570	25
2014	2,472,697	1,580,876	891,821	9,372,583	17
2013	2,062,022	810,056	1,251,966	8,921,077	9
2012	1,806,205	1,851,459	(45,254)	8,594,147	22
2011	1,695,137	1,677,921	17,216	8,140,629	21
2010	454	148,445	(147,991)	7,973,921	2
2009	2,657	454	2,203	7,468,809	0

Notes to Schedule

Methods and assumptions used to establish "actuarially determined contribution" rates for the campus and medical center segment of UCRP:

Valuation date	Actuarially determined contribution rates are calculated as of July 1, two years prior to the end of the fiscal year in which contributions are reported.
Actuarial cost method	Entry age actuarial cost method.
Amortization method	Level dollar, closed periods.
Remaining amortization period	19.85 years as of July 1, 2017. The July 1, 2010 amortization bases were combined into a single amortization base and amortized over 30 years. Any changes in Unfunded Actuarial Accrued Liability (UAAL) due to actuarial experience gains or losses after July 1, 2010, are separately amortized over a fixed (closed) 30-year period effective with that valuation. Any changes in UAAL due to a change in actuarial assumptions or plan provisions are separately amortized over a fixed (closed) 15-year period. Any changes in UAAL due to actuarial experience gains or losses or a change in actuarial assumptions after July 1, 2014, are separately amortized over a fixed (closed) 20-year period.
Asset valuation method	The market value of assets less unrecognized returns in each of the last five years. An unrecognized return is equal to the difference between the actual and the expected return on a market value basis and is recognized over a five-year period.
Investment rate of return	7.25%, net of pension plan investment expense, including inflation.
Inflation	3.00%.
Projected salary increases	3.75% - 6.15%, includes inflation.
Cost-of-living adjustments	2.00%.
Mortality	Post-retirement Healthy: RP-2014 White Collar Healthy Annuitant Mortality Table projected with the two-dimensional MP-2014 projection scale to 2029, set forward one year.
Other assumptions	Same as those used in the July 1, 2018 funding actuarial valuation.

UC-VERIP

The University's schedule of changes in net pension liability for UC-VERIP as of June 30 is:

<i>(in thousands of dollars)</i>	2018	2017	2016	2015
TOTAL PENSION LIABILITY				
Interest on the total pension liability	\$2,042	\$2,463	\$2,533	\$2,704
Difference between expected and actual experience	(436)	(189)	(650)	242
Changes of assumptions or other inputs				1,837
Benefits paid, including refunds of employee contributions	(4,610)	(4,738)	(4,937)	(5,081)
Net change in total pension liability	(3,004)	(2,464)	(3,054)	(298)
Total pension liability - beginning of year	32,544	35,008	38,062	38,360
Total pension liability - end of year	29,540	32,544	35,008	38,062
PLAN NET POSITION				
Net investment income	4,885	8,666	(1,425)	2,550
Benefits paid, including refunds of employee contributions	(4,610)	(4,738)	(4,937)	(5,081)
Administrative expense	(5)	(6)	(7)	(6)
Net change in plan net position	270	3,922	(6,369)	(2,537)
Plan net position - beginning of year	64,978	61,056	67,425	69,962
Plan net position - end of year	65,248	64,978	61,056	67,425
Net pension liability (asset) - end of year	(\$35,708)	(\$32,434)	(\$26,048)	(\$29,363)

<i>(in thousands of dollars)</i>	2014	2013	2012
TOTAL PENSION LIABILITY			
Interest on the total pension liability	\$2,857	\$3,052	\$3,227
Changes of benefit terms			11,186
Difference between expected and actual experience	(436)	(241)	172
Changes of assumptions or other inputs			1,268
Benefits paid, including refunds of employee contributions	(5,169)	(5,278)	(5,369)
Net change in total pension liability	(2,748)	(2,467)	10,484
Total pension liability - beginning of year	41,108	43,575	33,091
Total pension liability - end of year	38,360	41,108	43,575
PLAN NET POSITION			
Net investment income	11,035	7,144	90
Benefits paid, including refunds of employee contributions	(5,169)	(5,278)	(5,369)
Administrative expense	(6)	(7)	(7)
Net change in plan net position	5,860	1,859	(5,286)
Plan net position - beginning of year	64,102	62,243	67,529
Plan net position - end of year	69,962	64,102	62,243
Net pension liability (asset) - end of year	(\$31,602)	(\$22,994)	(\$18,668)

The University's schedule of net pension asset for UC-VERIP as of June 30 is:

<i>(in thousands of dollars)</i>	2018	2017	2016	2015
Total pension liability	\$29,540	\$32,544	\$35,008	\$38,062
Plan net position	65,248	64,978	61,056	67,425
Net pension asset	(\$35,708)	(\$32,434)	(\$26,048)	(\$29,363)
Ratio of plan net position to total pension liability (asset)	220.9%	199.7%	174.4%	177.1%

<i>(in thousands of dollars)</i>	2014	2013	2012
Total pension liability	\$38,360	\$41,108	\$43,575
Plan net position	69,962	64,102	62,243
Net pension asset	(\$31,602)	(\$22,994)	(\$18,668)
Ratio of plan net position to total pension liability (asset)	182.4%	155.9%	142.8%

The University is not required to make contributions to the UC-VERIP due to its fully funded status.

CHRCO PENSION PLAN

The schedule of changes in the net pension liability for the CHRCO Pension Plan as of June 30:

<i>(in thousands of dollars)</i>	2018	2017	2016	2015	2014
TOTAL PENSION LIABILITY					
Service cost	\$11,304	\$9,910	\$10,410	\$9,448	\$9,274
Interest on the total pension liability	31,854	29,672	27,782	24,683	22,453
Changes of benefit terms	92	33	24	40	142
Difference between expected and actual experience	3,609	2,442	(3,690)	762	2,487
Changes of assumptions or other inputs			3,613	33,105	
Benefits paid, including refunds of employee contributions	(12,802)	(11,767)	(9,509)	(8,082)	(6,994)
Net change in total pension liability	34,057	30,290	28,630	59,956	27,362
Total pension liability - beginning of year	450,152	419,862	391,232	331,276	303,914
Total pension liability - end of year	484,209	450,152	419,862	391,232	331,276
PLAN NET POSITION					
Contributions - employer	33,600	28,800	24,000	18,000	14,500
Net investment income	33,269	41,256	214	11,797	48,704
Benefits paid, including refunds of employee contributions	(12,802)	(11,767)	(9,509)	(8,082)	(6,994)
Administrative expense	(3,014)	(2,727)	(1,816)	(1,222)	(718)
Net change in plan net position	51,053	55,562	12,889	20,493	55,492
Plan net position - beginning of year	409,008	353,446	340,557	320,064	264,572
Plan net position - end of year	460,061	409,008	353,446	340,557	320,064
Net pension liability - end of year	\$24,148	\$41,144	\$66,416	\$50,675	\$11,212

The schedule of net pension liability for the CHRCO Pension Plan as of June 30 is:

<i>(in thousands of dollars)</i>	2018	2017	2016	2015	2014
Total pension liability	\$484,209	\$450,152	\$419,862	\$391,232	\$331,276
Plan net position	460,061	409,008	353,446	340,557	320,064
Net pension liability	\$24,148	\$41,144	\$66,416	\$50,675	\$11,212
Ratio of plan net position to total pension liability	95.0%	90.9%	84.2%	87.0%	96.6%
Covered payroll	\$187,639	\$184,083	\$165,672	\$177,986	\$175,189
Net pension liability as a percentage of covered payroll	12.9%	22.4%	40.1%	28.5%	6.4%

The schedule of employer contributions for the CHRCO Pension Plan as of June 30 is:

<i>(in thousands of dollars)</i>	2018	2017	2016	2015	2014
Actuarially calculated employer contributions	\$7,710	\$5,642	\$7,823	\$12,239	\$21,282
Contributions in relation to the actuarially calculated employer contribution	33,600	28,800	24,000	18,000	14,500
Annual contribution deficiency (excess)	(\$25,890)	(\$23,158)	(\$16,177)	(\$5,761)	\$6,782
Covered payroll	\$187,639	\$184,083	\$165,672	\$177,986	\$175,189
Actual contributions as a percentage of covered payroll	17.9%	15.6%	14.5%	10.1%	8.3%

Notes to schedule

Methods and assumptions used to determine contribution rates

Valuation date	Actuarially calculated contributions are calculated as of January 1 of the end of the fiscal year in which contributions are reported.
Actuarially determined contribution	The Plan is subject to funding requirements under ERISA. The contribution shown is the IRC Section 430 minimum contribution prior to offset by credit balances prorated for the number of months in the fiscal year. For the period January 1, 2014 to June 30, 2014, the amount shown does not reflect changes in the Highway and Transportation Funding Act of 2014 (HATFA). The contribution for July 1, 2014 and thereafter includes HATFA.
Contributions in relation to the actuarially determined contribution	The amount shown is equal to the contributions contributed to the Plan during the fiscal year shown.
Actuarial cost method	Unit Credit Actuarial Cost Method.
Amortization method	Level dollar, closed amortization.
Remaining amortization period	7 years for changes in unfunded liabilities that occur each valuation date.
Asset valuation method	The actuarial value of assets is equal to the two-year average of Plan asset values as of the valuation date. The two-year average is the average of the two prior years' adjusted market value of assets and the current year's market value of assets. For this purpose, the prior years' market value of assets is adjusted to reflect benefit payments, administrative expenses, contributions and expected returns for the prior years. The resulting actuarial value of assets is adjusted to be within 10% of the market value of assets at the valuation date, as required by IRC Section 430.
Inflation	3.0%.
Investment rate of return	7.0%, net of pension plan investment expenses, including inflation.
Projected salary increases	5.0%, including inflation through 2017, 4.0% afterward.
Cost-of-living adjustments	N/A.
Mortality	Adjusted RP-2014 Mortality Table for males or females with back up base table to 2006, as appropriate, with generational adjustments for mortality improvements based on Scale MP-2016.

OCERS

The schedule of the University's proportionate share of OCERS' net pension liability is presented below:

(in thousands of dollars)

AS OF JUNE 30	PROPORTION OF THE NET PENSION LIABILITY	PROPORTIONATE SHARE OF NET PENSION LIABILITY	COVERED PAYROLL	PROPORTIONATE SHARE OF THE NET PENSION LIABILITY AS A PERCENTAGE OF ITS COVERED PAYROLL	PLAN FIDUCIARY NET POSITION AS A PERCENTAGE OF THE TOTAL PENSION LIABILITY
2018	0.3%	\$13,822	\$15	92,146.7%	37.6%
2017	0.3%	18,057	44	41,038.6%	34.5%
2016	0.3%	18,092	285	6,348.1%	34.8%

University Retiree Health Benefits Plan

The schedule of changes in the net retiree health benefits liability includes multi-year trend information about whether the net retiree health benefits liability is increasing or decreasing over time. The University's net retiree health benefits liability includes liabilities for campuses, medical centers and LBNL. The University's schedule of changes in the net retiree health benefits liability as of, and for, the year ending June 30 is:

(in thousands of dollars)	2018	2017	2016	2015
TOTAL RETIREE HEALTH BENEFIT LIABILITY				
Service cost	\$835,154	\$1,004,644	\$830,041	\$702,935
Interest on the total retiree health benefits liability	716,777	646,279	735,294	719,853
Difference between expected and actual experience	(1,173,742)	101,280	(1,948,111)	
Changes of assumptions or other inputs	(354,585)	(3,827,924)	3,925,503	1,402,476
Retiree contributions	79,849	72,716	65,705	56,340
Benefits paid	(504,745)	(467,846)	(451,166)	(435,189)
Net change in total retiree health benefits liability	(401,292)	(2,470,851)	3,157,266	2,446,415
Total retiree health benefits liability - beginning of year	19,397,138	21,867,989	18,710,723	16,264,308
Total retiree health benefits liability - end of year	18,995,846	19,397,138	21,867,989	18,710,723
PLAN NET POSITION				
University contributions	453,988	432,953	410,945	367,416
Retiree contributions	79,849	72,716	65,705	56,340
Net investment income	1,634	606	155	41
Insurance premiums	(504,745)	(467,846)	(451,166)	(435,189)
Other deductions	(3,859)	(4,256)	(3,743)	(3,147)
Net change in UCRHBT net position	26,867	34,173	21,896	(14,539)
UCRHBT net position - beginning of year	106,714	72,541	50,645	65,184
UCRHBT net position - end of year	133,581	106,714	72,541	50,645
Net retiree health benefits liability - end of year	\$18,862,265	\$19,290,424	\$21,795,448	\$18,660,078

The University's schedule of net retiree health benefits liability as of June 30 is:

(in thousands of dollars)	2018	2017	2016	2015
Total retiree health benefits liability	\$18,995,846	\$18,995,846	\$21,867,989	\$18,710,723
UCRHBT net position	133,581	133,581	72,541	50,645
Net retiree health benefits liability	\$18,862,265	\$18,862,265	\$21,795,448	\$18,660,078
Ratio of UCRHBT net position to total retiree health benefits liability	0.7%	0.7%	0.3%	0.3%
Covered payroll	\$12,381,616	\$11,495,997	\$10,689,424	\$10,047,570
Net retiree health benefits liability as a percentage of covered payroll	152.3%	164.1%	203.9%	185.7%

University of California Retiree Health Benefit Trust

The schedule of changes in the net retiree health benefits liability includes multi-year trend information about whether the trust assets are increasing or decreasing over time relative to the total retiree health benefits liability for the campuses and medical centers.

UCRHBT's schedule of changes in net retiree health benefit liability as of, and for, the year ending June 30 is:

<i>(in thousands of dollars)</i>	2018	2017	2016	2015
TOTAL RETIREE HEALTH BENEFIT LIABILITY				
Service cost	\$816,483	\$981,745	\$806,817	\$683,220
Interest on the total retiree health benefits liability	694,562	625,947	711,365	695,999
Difference between expected and actual experience	(1,149,032)	95,254	(1,875,009)	
Changes of assumptions or other inputs	(353,516)	(3,707,921)	3,798,113	1,358,761
Retiree contributions	76,873	69,968	65,705	56,340
Benefits paid	(483,479)	(447,604)	(433,849)	(418,244)
Net change in total retiree health benefits liability	(398,109)	(2,382,611)	3,073,142	2,376,076
Total retiree health benefits liability - beginning of year	18,786,101	21,168,712	18,095,570	15,719,494
Total retiree health benefits liability - end of year	18,387,992	18,786,101	21,168,712	18,095,570
PLAN NET POSITION				
University contributions	435,698	415,459	393,628	350,471
Retiree contributions	76,873	69,968	65,705	56,340
Net investment income	1,634	606	155	41
Insurance premiums	(483,479)	(447,604)	(433,849)	(418,244)
Other deductions	(3,859)	(4,256)	(3,743)	(3,147)
Net change in UCRHBT net position	26,867	34,173	21,896	(14,539)
UCRHBT net position - beginning of year	106,714	72,541	50,645	65,184
UCRHBT net position - end of year	133,581	106,714	72,541	50,645
Net retiree health benefits liability - end of year	\$18,254,411	\$18,679,387	\$21,096,171	\$18,044,925

UCRHBT's schedule of net retiree health benefits liability as of June 30 is:

<i>(in thousands of dollars)</i>	2018	2017	2016	2015
Total retiree health benefits liability	\$18,387,992	\$18,786,101	\$21,168,712	\$18,095,570
UCRHBT net position	133,581	106,714	72,541	50,645
Net retiree health benefits liability	\$18,254,411	\$18,679,387	\$21,096,171	\$18,044,925
Ratio of UCRHBT net position to total retiree health benefits liability	0.7%	0.6%	0.3%	0.3%
Covered payroll	\$12,087,000	\$11,196,485	\$10,396,827	\$9,758,795
Net retiree health benefits liability as a percentage of covered payroll	151.0%	166.8%	202.9%	184.9%

UNIVERSITY OF CALIFORNIA
Summary Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2018

	Total Expenditures
	2018
Summary of Expenditures	
STUDENT FINANCIAL ASSISTANCE CLUSTER:	1,804,628,589
DEPARTMENT OF AGRICULTURE - COOPERATIVE EXTENSION CLUSTER	
Federal Agency Direct Awards Expended	14,585,891
Pass-Through/Partial Pass-Through Funds Expended	65,959
Total Department of Agriculture - Cooperative Extension Cluster	14,651,850
RESEARCH AND DEVELOPMENT CLUSTER:	
Federal Agency Direct Awards Expended	3,091,508,027
Pass-Through/Partial Pass-Through Funds Expended	494,683,001.00
Total Research and Development Cluster	3,586,191,028
DEPARTMENT OF HEALTH AND HUMAN SERVICES - TITLE IV FOSTER CARE PROGRAM CLUSTER	
Pass-Through and Partial Pass-Through Funds Expended	53,069,225
Total Department of Health and Human Services - Title IV Foster Care Program Cluster	53,069,225
DEPARTMENT OF AGRICULTURE - SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM (SNAP) CLUSTER	
Pass-Through and Partial Pass-Through Funds Expended	15,837,877
Total Department of Agriculture - Supplemental Nutrition Assistance Program (SNAP) Cluster	15,837,877
DEPARTMENT OF HEALTH AND HUMAN SERVICES - MEDICAID CLUSTER	
Pass-Through and Partial Pass-Through Funds Expended	2,394,580
Total Department of Health and Human Services - Medicaid Cluster	2,394,580
DEPARTMENT OF TRANSPORT - FEDERAL TRANSIT CLUSTER	
Pass-Through and Partial Pass-Through Funds Expended	166,242
Total Department of Transportation - Federal Transit Cluster	166,242
DEPARTMENT OF INTERIOR - FISH AND WILDLIFE CLUSTER	
Pass-Through and Partial Pass-Through Funds Expended	6,173
Total Department of Interior - Fish and Wildlife Cluster	6,173
DEPARTMENT OF STATE - HIGHWAY PLANNING AND CONSTRUCTIONS CLUSTER	
Federal Agency Direct Awards Expended	118,083
Pass-Through and Partial Pass-Through Funds Expended	164,652
Total Department of State - Highway Planning and Construction Cluster	282,735
DEPARTMENT OF HEALTH AND HUMAN SERVICES - GLOBAL AIDS PROGRAM	
Federal Agency Direct Awards Expended	5,040,679
Pass-Through and Partial Pass-Through Funds Expended	13,848,792
Total Department of Health and Human Services -Global Aids Program	18,889,471
DEPARTMENT OF HEALTH AND HUMAN SERVICES - HIV RELATED TRAINING AND TECHNICAL ASSISTANCE PROGRAM	
Federal Agency Direct Awards Expended	5,399,867
Pass-Through and Partial Pass-Through Funds Expended	220,931
Total Department of Health and Human Services -HIV Related Training and Technical Assistance Program	5,620,798
DEPARTMENT OF COMMERCE - ECONOMIC DEVELOPMENT CLUSTER	
Federal Agency Direct Awards Expended	142,742
Total Department of Commerce - Economic Development Cluster	142,742

DEPARTMENT OF HEALTH AND HUMAN SERVICES - CCDF CLUSTER	
Pass-Through and Partial Pass-Through Funds Expended	1,290,182
Total Department of Health and Human Services - CCDF Cluster	<u>1,290,182</u>
DEPARTMENT OF HEALTH AND HUMAN SERVICES - TANF CLUSTER	
Pass-Through and Partial Pass-Through Funds Expended	3,360,046
Total Department of Health and Human Services - TANF Cluster	<u>3,360,046</u>
DEPARTMENT OF LABOR - WIOA CLUSTER	
Pass-Through and Partial Pass-Through Funds Expended	962,046
Total Department of Labor - WIOA Cluster	<u>962,046</u>
DEPARTMENT OF TRANSPORT- HIGHWAY SAFETY CLUSTER	
Pass-Through and Partial Pass-Through Funds Expended	4,521,299
Total Department of Transportation - Highway Safety Cluster	<u>4,521,299</u>
DEPARTMENT OF EDUCATION - TRIO CLUSTER	
Federal Agency Direct Awards Expended	10,400,473
Pass-Through and Partial Pass-Through Funds Expended	4,310
Total Department of Education - TRIO Cluster	<u>10,404,783</u>
DEPARTMENT OF HEALTH AND HUMAN SERVICES - AGING CLUSTER	
Pass-Through and Partial Pass-Through Funds Expended	46,310
Total Department of Health and Human Services - Aging Cluster	<u>46,310</u>
DEPARTMENT OF HEALTH AND HUMAN SERVICES - HEALTH CENTER PROGRAM CLUSTER	
Federal Agency Direct Awards Expended	1,763,038
Pass-Through and Partial Pass-Through Funds Expended	364,056
Total Department of Health and Human Services - Health Center Program Cluster	<u>2,127,094</u>
DEPARTMENT OF HEALTH AND HUMAN SERVICES - MATERNAL, INFANT, AND EARLY CHILDHOOD HOME VISITING CLUSTER	
Pass-Through and Partial Pass-Through Funds Expended	56,046
Total Department of Health and Human Services - Maternal, Infant, and Early Childhood Home Visiting Cluster	<u>56,046</u>
OTHER PROGRAMS	
Federal Agency Direct Awards Expended	96,797,836
Pass-Through/Partial Pass-Through Funds Expended	44,387,673
Total Other Programs	<u>141,185,509</u>
 Total Federal Awards Expended	 <u><u>5,665,834,625</u></u>

UNIVERSITY OF CALIFORNIA
 Schedule of Expenditures of Federal Awards
 For the Fiscal Year Ended June 30, 2018

Cluster Programs and Federal Agencies	Federal Direct / Pass-Through and Partial Pass-Through	Agency/PassThrough Identifier or Other Identifier	Federal CFDA #		FY 2018	
			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
Student Financial Assistance Cluster DEPARTMENT OF EDUCATION	Direct FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITIES GRANT	VARIOUS	84	007	\$9,294,090 9,294,090	
	Direct FEDERAL WORK-STUDY PROGRAM	VARIOUS	84	033	16,246,310 16,246,310	
	Direct FEDERAL PERKINS LOAN PROGRAM BEGINNING BALANCE	VARIOUS	84	038	207,627,156	
	FEDERAL PERKINS LOAN PROGRAM NEW LOAN	VARIOUS	84	038	17,963,630	
	FEDERAL PERKINS LOAN PROGRAM ADMINISTRATIVE COST ALLOWANCE	VARIOUS	84	038	2,241,020 227,831,806	
	Direct FEDERAL PELL GRANTS	VARIOUS	84	063	431,444,331 431,444,331	
	Direct FEDERAL DIRECT STUDENT LOAN PROGRAM	VARIOUS	84	268	1,046,098,739 1,046,098,739	
	Direct TEACHER EDUCATION ASSISTANCE FOR COLLEGE AND HIGHER EDUCATION GRANTS (TEACH)	VARIOUS	84	379	71,467 71,467	
DEPARTMENT OF EDUCATION Total					1,730,986,743	
DEPARTMENT OF HEALTH AND HUMAN SERVICES	Direct NURSING FACULTY LOAN PROGRAM BEGINNING BALANCE	VARIOUS	93	264	988,966	
	NURSING FACULTY LOAN PROGRAM NEW LOAN	VARIOUS	93	264	0 988,966	
	Direct HLTH PROFESSIONS STUDENT LOANS/LOANS FOR DISADVANTAGED STUDENTS/PRIMARY CARE LOAN BEG BAL	VARIOUS	93	342	55,331,182	
	HLTH PROFESSIONS STUDENT LOANS/LOANS FOR DISADVANTAGED STUDENTS/PRIMARY CARE-NEW LOAN	VARIOUS	93	342	14,113,149 69,444,331	
	Direct NURSING STUDENT LOAN PROGRAM BEGINNING BALANCE	VARIOUS	93	364	1,453,909	
	NURSING STUDENT LOAN PROGRAM NEW LOAN	VARIOUS	93	364	344,448 1,798,357	
	Direct ARRA-NURSING FACULTY LOAN PROGRAM BEGINNING BALANCE	VARIOUS	93	408	115,192	
	ARRA-NURSING FACULTY LOAN PROGRAM NEW LOAN	VARIOUS	93	408	0 115,192	
	Direct SCHOLARSHIPS FOR STUDENTS FROM DISADVANTAGED BACKGROUND	VARIOUS	93	925	1,295,000 1,295,000	
DEPARTMENT OF HEALTH AND HUMAN SERVICES Total					73,641,846	
Student Financial Assistance Cluster Total					1,804,628,589	
Coop Ext DEPARTMENT OF AGRICULTURE	Direct DEPARTMENT OF AGRICULTURE	VARIOUS	10	202	27,896 27,896	
	Direct DEPARTMENT OF AGRICULTURE	VARIOUS	10	203	1,359,636 1,359,636	
	Direct DEPARTMENT OF AGRICULTURE	VARIOUS	10	500	13,198,359	\$1,500
	Passthrough/Partial Passthrough KANSAS STATE UNIVERSITY	38A27	10	500	-454	
	KANSAS STATE UNIVERSITY	88A22	10	500	58,976	
	WASHINGTON STATE UNIVERSITY	74A65	10	500	6,495	

UNIVERSITY OF CALIFORNIA
Schedule of Expenditures of Federal Awards
For the Fiscal Year Ended June 30, 2018

Cluster Programs and Federal Agencies	Federal Direct / Pass-Through and Partial Pass-Through	Agency/PassThrough Identifier or Other Identifier	Federal CFDA #		FY 2018	
			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
DEPARTMENT OF AGRICULTURE	WASHINGTON STATE UNIVERSITY	80882	10	500	942	
					13,264,318	1,500
DEPARTMENT OF AGRICULTURE Total					14,651,850	1,500
Coop Ext Total					14,651,850	1,500
Research and Development Cluster						
DEPARTMENT OF AGRICULTURE						
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	73A96	10	001	806,184	
	CALIFORNIA STRAWBERRY NURSERYMEN ASSOCIATION	201503945	10	001	100,453	
	MICHIGAN STATE UNIVERSITY	RC105306	10	001	33,591	
	NATIONAL ACADEMY OF SCIENCES	200006101	10	001	72,013	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	2012-CA001-ARS	10	001	26,381	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	22B67	10	001	164,322	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	ARS NACA 58-6080-7-009	10	001	800	
					1,203,744	
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	160547SF	10	025	17,630	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	009180	10	025	40,888	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	17-0214-001-SF	10	025	30,727	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	17-0413-001-SF	10	025	57,892	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	17-0426-001-SF	10	025	23,243	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	70B71	10	025	11,316	
	CITRUS RESEARCH PROGRAM	007880	10	025	106,871	
					288,567	
	Passthrough/Partial Passthrough					
	CALAVERAS UNIFIED SCHOOL DISTRICT	201603165	10	170	9,616	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	007861	10	170	175,226	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	008618	10	170	217,135	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	008684	10	170	156,924	18,846
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	008685	10	170	222,934	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	008687	10	170	115,474	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	14SCBGPCA0006	10	170	-7,824	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	201502786-01	10	170	73,924	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	2016-160036	10	170	156,935	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	24B08	10	170	5,774	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	24B67	10	170	35,932	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	30929	10	170	2,179	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	32A39	10	170	68,605	19,018
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	37A80	10	170	29,122	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	38A04	10	170	167,253	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	38A06	10	170	88,276	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	81019	10	170	-33,263	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	81027	10	170	-2,139	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	81039	10	170	-3,677	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	84743	10	170	151,844	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	88A38	10	170	65,363	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	88A41	10	170	2,578	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	88A42	10	170	5,017	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	88A52	10	170	147,793	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	88A84	10	170	36,550	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	A17-0306-001	10	170	68,654	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SA16-3202-UCB	10	170	64,837	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB14015	10	170	-983	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB14023	10	170	5,151	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB14027	10	170	2,144	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB14036	10	170	-2,038	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB14040	10	170	317	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB14048	10	170	-916	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15014	10	170	4,806	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15021	10	170	77,585	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15026	10	170	14,721	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15033	10	170	96,861	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15035	10	170	133,967	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15037	10	170	147,577	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15040	10	170	145,567	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15050	10	170	91,012	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15058	10	170	101,143	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB16015	10	170	34,738	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB16022	10	170	62,900	

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			Prefix	Extension	Federal Expenditures		
DEPARTMENT OF AGRICULTURE	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB16032	10	170	30,499		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB16035	10	170	176,974		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB16036	10	170	169,740		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB16041	10	170	48,868		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB16050	10	170	179,251		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB16054	10	170	95,947		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB16066	10	170	36,407	11,679	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	17-0275-034-SC	10	170	22,617	2,009	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	17-0275-036-SC	10	170	32,420		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	17-0275-047-SC	10	170	83,583		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	17027502-SC	10	170	51,741		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	1702750325C	10	170	34,704		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	28929	10	170	-64		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	32B40	10	170	20,914		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	37A26	10	170	16,824		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	72B71	10	170	4,500		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	73B66	10	170	94,035		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	73B67	10	170	49,037		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	74B02	10	170	5,417		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	74B03	10	170	37,197		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	74B26	10	170	22,347		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	75B23	10	170	65,536		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	84B09	10	170	117,159		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	A18-0352-001	10	170	51,504		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	AM170100XXXXG011	10	170	68,851		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SC16053C	10	170	31,630		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15009	10	170	69,265		
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB16037	10	170	50,692		
	CALIFORNIA STATE UNIVERSITY, FRESNO FOUNDATION	83A05	10	170	-9		
	CENTER FOR PRODUCE SAFETY	2015CPS14	10	170	2,617		
	CENTER FOR PRODUCE SAFETY	2016CPS02	10	170	64,876		
	CENTER FOR PRODUCE SAFETY	2016CPS11	10	170	3,721		
	CENTER FOR PRODUCE SAFETY	21B07	10	170	79,096		
	CENTER FOR PRODUCE SAFETY	21B76	10	170	1,214		
	CENTER FOR PRODUCE SAFETY	SCB16069	10	170	144,264		
	CENTER FOR PRODUCE SAFETY	2018CPS07	10	170	20,754		
	CENTER FOR PRODUCE SAFETY	USDA-AMS-TM-SCBGP-G-17-003	10	170	31,189		
	CORNELL UNIVERSITY	2018CPS04	10	170	4,429		
	RIVERSIDE UNIFIED SCHOOL DISTRICT	88A55	10	170	32,148		
	SUSTAINABLE CONSERVATION	SCB14028	10	170	-355		
	UNIVERSITY CORPORATION AT MONTEREY BAY	008739	10	170	111,885		
	VENTURA COUNTY RESOURCE CONSERVATION DISTRICT	21B66	10	170	4,572		
	VENTURA COUNTY RESOURCE CONSERVATION DISTRICT	21B61	10	170	23,179		
	WASHINGTON STATE UNIVERSITY	16SCBGPCA0035	10	170	62,912		
	CALIFORNIA STATE UNIVERSITY, FRESNO	76B54	10	170	2,069		
	TOGETHER WE CAN INC	SA15-2865-02	10	170	90,185		
					5,281,935	51,552	
		Passthrough/Partial Passthrough					
		CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	009374	10	171	47,380	
						47,380	
		Passthrough/Partial Passthrough					
		COLORADO STATE UNIVERSITY	32A30	10	200	2,466	
		COLORADO STATE UNIVERSITY	32A31	10	200	877	
		COLORADO STATE UNIVERSITY	73B89	10	200	11,953	
		COLORADO STATE UNIVERSITY	75B55	10	200	5,774	
		SAN BERNARDINO COMMUNITY COLLEGE DISTRICT	86661	10	200	12,564	
		THE TEXAS A&M UNIVERSITY SYSTEM	06S130666	10	200	189	
		UNIVERSITY OF FLORIDA	008150	10	200	82,430	
		UNIVERSITY OF FLORIDA	1800586800	10	200	12,000	
		UNIVERSITY OF WASHINGTON	748624	10	200	-21	
		UNIVERSITY OF WASHINGTON	UWSC8213	10	200	758	
		UNIVERSITY OF WASHINGTON	UWSC8839	10	200	705	
	UNIVERSITY OF WASHINGTON	UWSC8975	10	200	-20		
	UNIVERSITY OF WASHINGTON	UWSC10035	10	200	36,877		
	UNIVERSITY OF WASHINGTON	UWSC10036	10	200	23,938		
	UNIVERSITY OF WASHINGTON	UWSC10037	10	200	66		
	UNIVERSITY OF WASHINGTON	UWSC9733	10	200	1,302		
					191,858		

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DEPARTMENT OF AGRICULTURE	Passthrough/Partial Passthrough						
	UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	201701416	10	203	11,266	11,266	
	Passthrough/Partial Passthrough						
	INTELLIGENT OPTICAL SYSTEMS, INC.	IOS #3255, USDA-ELIS	10	212	21,303	21,303	
	MAXENTRIC TECHNOLOGIES LLC	89330	10	212	576	21,879	
	Passthrough/Partial Passthrough						
	UTAH STATE UNIVERSITY	130676001	10	215	43,025	43,025	
	UTAH STATE UNIVERSITY	150893-00001-269	10	215	15,643	15,643	
	UTAH STATE UNIVERSITY	20163864025383	10	215	53,906	53,906	
	UTAH STATE UNIVERSITY	20183864023779	10	215	1,330	1,330	
	UTAH STATE UNIVERSITY	200592-446	10	215	3,480	3,480	
	UTAH STATE UNIVERSITY	200592-448	10	215	71	71	
	UTAH STATE UNIVERSITY	34A04	10	215	8,834	8,834	
	DAVID CEASER DBA GREEN SKIES VERTICAL FARM	22B90	10	215	1,381	1,381	
						127,670	
	Passthrough/Partial Passthrough						
	CORNELL UNIVERSITY	7336510455	10	217	29,293	29,293	
	UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	320000126618052	10	217	64,967	64,967	
						94,260	
	Passthrough/Partial Passthrough						
	CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIARY SERVICES	S-6286-UCSB	10	223	14,456	14,456	
	Passthrough/Partial Passthrough						
	CALIFORNIA INSTITUTE OF TECHNOLOGY	18B-1097804	10	250	74,239	74,239	
	COLUMBIA UNIVERSITY	1(GG009382):2	10	250	22,070	22,070	
	JOHNS HOPKINS UNIVERSITY	874B8	10	250	663	663	
	UNIVERSITY OF MARYLAND	A16-0574-003	10	250	19,895	19,895	
						116,867	
	Passthrough/Partial Passthrough						
	TUFTS UNIVERSITY	101383-00001-BITLER	10	253	31,720	31,720	
	TUFTS UNIVERSITY	101383-00001-PAGE	10	253	18,283	18,283	
						50,003	
	Passthrough/Partial Passthrough						
	UNIVERSITY OF GEORGIA	RC293636/S00087C	10	307	72,862	72,862	
	UNIVERSITY OF GEORGIA	36A32	10	307	39,521	39,521	
	WASHINGTON STATE UNIVERSITY	007902	10	307	86,925	86,925	
						199,308	
	Passthrough/Partial Passthrough						
	UNIVERSITY OF GEORGIA	RR644-418/5054566	10	308	18,705	18,705	
	Passthrough/Partial Passthrough						
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15046	10	309	151,182	151,182	30,159
	CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.	13002NU781	10	309	155,456	155,456	
	CLEMSON UNIVERSITY	20145118122372	10	309	152,509	152,509	
	CLEMSON UNIVERSITY	82094	10	309	38,266	38,266	
	CORNELL UNIVERSITY	7640110608	10	309	413,231	413,231	
	CORNELL UNIVERSITY	8198010922	10	309	1,511	1,511	
	KANSAS STATE UNIVERSITY	S15193	10	309	102,570	102,570	
	MICHIGAN STATE UNIVERSITY	2014-51181-22378	10	309	-8,063	-8,063	
	MICHIGAN STATE UNIVERSITY	RC102039H	10	309	883	883	
	MICHIGAN STATE UNIVERSITY	RC102039I	10	309	45,181	45,181	-1,698
	NEW MEXICO CONSORTIUM, INC.	008045	10	309	148,795	148,795	16,890
	NORTH CAROLINA STATE UNIVERSITY	008663	10	309	50,184	50,184	
	NORTH CAROLINA STATE UNIVERSITY	2016022807	10	309	225,660	225,660	
	NORTH CAROLINA STATE UNIVERSITY	2017-0398-11	10	309	123,197	123,197	
	NORTH CAROLINA STATE UNIVERSITY	24B87	10	309	9,662	9,662	
	NORTH CAROLINA STATE UNIVERSITY	89167	10	309	242,083	242,083	
	NORTH CAROLINA STATE UNIVERSITY	20B88	10	309	19,700	19,700	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	6069PP2016NINO	10	309	108,936	108,936	
	TEXAS A&M RESEARCH FOUNDATION	72B72	10	309	1,352	1,352	

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DEPARTMENT OF AGRICULTURE	UNIVERSITY OF FLORIDA	UFDSP00011008	10	309	123,279	
	UNIVERSITY OF FLORIDA	009448	10	309	86,182	
	UNIVERSITY OF FLORIDA	UFDSP00011788	10	309	27,419	
					2,219,175	45,350
	Passthrough/Partial Passthrough					
	COLORADO STATE UNIVERSITY	20146800621842	10	310	3,104	
	COLORADO STATE UNIVERSITY	G-9191-1	10	310	197	
	COLORADO STATE UNIVERSITY	G-89706-01	10	310	26,723	
	DESERT BOTANICAL GARDEN	UCSB 03012015	10	310	-82	
	IOWA STATE UNIVERSITY	416-41-87A	10	310	700	
	KANSAS STATE UNIVERSITY	S16114	10	310	60,976	
	KANSAS STATE UNIVERSITY	20166800725066	10	310	22,410	
	LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE	87460	10	310	14,703	
	MICHIGAN STATE UNIVERSITY	74A11	10	310	-340	
	NORTH DAKOTA UNIVERSITY SYSTEM	FAR0022074	10	310	2,646	
	OHIO STATE UNIVERSITY	60045862A	10	310	27,756	
	OREGON STATE UNIVERSITY	C0486A-B	10	310	20,898	
	PENNSYLVANIA STATE UNIVERSITY	57558	10	310	12,569	
	PURDUE UNIVERSITY	20146701721831	10	310	67,621	
	RECOMBINETICS, INC	201403217	10	310	51,286	
	TEXAS A&M RESEARCH FOUNDATION	M1701755-CYC1	10	310	5,659	
	TEXAS A&M UNIVERSITY - COLLEGE STATION	S150693	10	310	81,302	
	TEXAS A&M UNIVERSITY - COLLEGE STATION	009234	10	310	23,716	
	UNIVERSITY CORPORATION AT MONTEREY BAY	29A16	10	310	530	
	UNIVERSITY OF FLORIDA	009625	10	310	15,231	
	UNIVERSITY OF GEORGIA	29A08	10	310	13,858	
	UNIVERSITY OF ILLINOIS	007414	10	310	55,015	
	UNIVERSITY OF MARYLAND	3247025768002	10	310	42,048	
	UNIVERSITY OF MASSACHUSETTS AMHERST	16009070A00	10	310	11,525	
	UNIVERSITY OF MINNESOTA	H005365301	10	310	15,033	
	UNIVERSITY OF MISSOURI	58110	10	310	1,695	
	UNIVERSITY OF NEBRASKA	25-0511-0110-002	10	310	10,048	
	UNIVERSITY OF TENNESSEE	009776	10	310	12,227	
	UNIVERSITY OF VERMONT	24B85	10	310	13,849	
	UNIVERSITY OF WASHINGTON	727152	10	310	100,388	37,509
	WASHINGTON STATE UNIVERSITY	123791G003453	10	310	71,644	
	WASHINGTON STATE UNIVERSITY	123694G003751	10	310	35,378	
	UNIVERSITY OF NORTH CAROLINA AT GREENSBORO	009009	10	310	26,422	
					846,735	37,509
	Passthrough/Partial Passthrough					
	THIRD SECTOR NEW ENGLAND INC.	A17-0168-001	10	311	9,747	
					9,747	
	Passthrough/Partial Passthrough					
	OKLAHOMA STATE UNIVERSITY	2568390.UCM1	10	320	62,052	
					62,052	
	Passthrough/Partial Passthrough					
	CORNELL UNIVERSITY	2017-70020-27259	10	328	14,638	
	OREGON STATE UNIVERSITY	C0494AB	10	328	113,525	
					128,163	
	Passthrough/Partial Passthrough					
	UNIVERSITY OF ARIZONA	2017700627273	10	329	887	
					887	
	Passthrough/Partial Passthrough					
	UNIVERSITY OF ARIZONA	26B98	10	330	4,667	
	UNIVERSITY OF ARIZONA	75A92	10	330	21,302	
	UTAH STATE UNIVERSITY	200612-00001-345	10	330	36,572	
					62,541	
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	76B33	10	331	48,711	
					48,711	
	Passthrough/Partial Passthrough					
	WESTAT	75A88	10	585	3,720	
	WESTAT	71B60	10	585	4,035	

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DEPARTMENT OF AGRICULTURE					7,755	
	Passthrough/Partial Passthrough					
	ADMINISTRATIVE COMMITTEE FOR PISTACHIOS	29A61	10	604	25,639	
	CALIFORNIA CITRUS QUALITY COUNCIL	201700468	10	604	178,171	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	008095	10	604	109,438	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	32B15	10	604	66,000	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	6133-TASCGMRL-CA	10	604	78,045	70,950
					457,293	70,950
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15051	10	612	204,044	
	CALIFORNIA STRAWBERRY NURSERYMEN ASSOCIATION	22A65	10	612	2,273	
					206,317	
	Passthrough/Partial Passthrough					
	TREEPEOPLE INC	0002	10	664	46,390	
					46,390	
	Passthrough/Partial Passthrough					
	TAHOE RESOURCE CONSERVATION DISTRICT	SWP 1	10	690	46,522	
					46,522	
	Passthrough/Partial Passthrough					
	TERRA GLOBAL CAPITAL, LLC	201503505	10	912	11,084	
	AMERICAN RIVERS	60358	10	912	6,639	
					17,723	
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	RD	48,178,861	5,739,078
	Passthrough/Partial Passthrough					
	ALMOND BOARD OF CALIFORNIA	39A59	10	RD	1,726	
	CALIFORNIA DEPARTMENT OF FINANCE	18498	10	RD	-538,865	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	1204445A	10	RD	-83	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB16045	10	RD	55,432	7,608
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	17-0218-000-SA	10	RD	49,411	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21B90	10	RD	34,622	
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	18861	10	RD	-3,109	
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	18892	10	RD	-4,284	
	CALIFORNIA STATE UNIVERSITY, NORTHRIDGE	2017-67018-26173	10	RD	55,093	
	DAVIS, CITY OF	20619	10	RD	-16,537	
	NATIONAL FISH AND WILDLIFE FOUNDATION	00009434	10	RD	8,734	
	NATIONAL FISH AND WILDLIFE FOUNDATION	0806.16.052206	10	RD	63,654	
	NATIONAL FISH AND WILDLIFE FOUNDATION	0806.16.052295	10	RD	30,123	
	NATIONAL FISH AND WILDLIFE FOUNDATION	0806.16.052375	10	RD	53,418	
	NATIONAL FISH AND WILDLIFE FOUNDATION	0806.17.055495	10	RD	63,540	
	NATIONAL FISH AND WILDLIFE FOUNDATION	0806.17.055660	10	RD	51,086	
	NATIONAL FISH AND WILDLIFE FOUNDATION	81B22	10	RD	43,081	
	NORTH CAROLINA STATE UNIVERSITY	89638	10	RD	44,164	
	OAK RIDGE NATIONAL LABORATORY	005934	10	RD	136,337	
	PUBLIC HEALTH INSTITUTE	72B54	10	RD	19,296	14,758
	TEXAS A&M RESEARCH FOUNDATION	025140239	10	RD	35,966	
	THE UNIVERSITY OF ALABAMA (TUSCALOOSA)	2017011	10	RD	31,047	
	UNIVERSITY OF FLORIDA	57599	10	RD	-8,519	
	UNIVERSITY OF FLORIDA	59996	10	RD	-172,917	
	UNIVERSITY OF MINNESOTA	H006588501	10	RD	1,906	
	UNIVERSITY OF NEBRASKA	25623902350306	10	RD	5,875	
	WASHINGTON RED RASPBERRY COMMISSION	201700386	10	RD	73,502	22,450
	WESTAT	72B02	10	RD	7,724	
	DAIRY MANAGEMENT INC.	201704028	10	RD	36,181	
	WATERSHED MATERIALS LLC	A180398	10	RD	9,663	
					48,346,128	5,783,894
DEPARTMENT OF AGRICULTURE Total					60,174,037	5,989,255
DEPARTMENT OF COMMERCE						
	Passthrough/Partial Passthrough					
	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	1611447	11	012	471,614	
	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	1710308:2	11	012	86,242	
	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	A16-0171-003	11	012	90,233	
	REMOTE SENSING SYSTEMS	57517	11	012	-163	
	SOUTHEASTERN UNIVERSITY'S RESEARCH ASSOCIATION	A00-0975-006	11	012	100,100	
	SOUTHERN CALIFORNIA COASTAL WATER RESEARCH PROJECT	10050:1	11	012	70,240	

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			Prefix	Extension	Federal Expenditures		
DEPARTMENT OF COMMERCE	UNIVERSITY OF MARYLAND	A16-0218-003	11	012	2,795		
	UNIVERSITY OF WASHINGTON	762824	11	012	8,854		
	UNIVERSITY OF WASHINGTON	UWSC7890 (FORMERLY 763223)	11	012	11,520		
						841,435	
	Passthrough/Partial Passthrough						
	UNIVERSITY OF SOUTHERN CALIFORNIA	75193327	11	417	21,186		
	UNIVERSITY OF SOUTHERN CALIFORNIA	75199714	11	417	44,996		
						66,182	
	Passthrough/Partial Passthrough						
	CALIFORNIA STATE UNIVERSITY, HUMBOLDT STATE UNIVERSITY SPONSORED	PO 0007101733	11	427	7,776		
	OCCIDENTAL COLLEGE	G650-SUB1	11	427	12,970		
						20,746	
	Passthrough/Partial Passthrough						
	GLOBAL SCIENCES & TECHNOLOGY, INC.	SA14-UOC01-006-001-CYC6	11	431	37,081		
	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	SUBAWD000005	11	431	1,263		
	UNIVERSITY OF WASHINGTON	UWSC9314	11	431	102,532		
						140,876	
	Passthrough/Partial Passthrough						
	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	P1670009	11	432	120,364		
	ECS FEDERAL, INC	1721570326	11	432	14,979		
	THE CULTURED ABALONE FARM LLC	201603461	11	432	85,101		
	UNIVERSITY OF SOUTHERN CALIFORNIA	75198802-2	11	432	8,571		
						229,015	
Passthrough/Partial Passthrough							
PACIFIC STATES MARINE FISHERIES COMMISSION	17103G	11	437	29,958			
					29,958		
Passthrough/Partial Passthrough							
SEWARD ASSOCIATION FOR THE ADVANCEMENT OF MARINE SCIENCE	A17-0159-001	11	439	84,760			
					84,760		
Passthrough/Partial Passthrough							
NATIONAL FISH AND WILDLIFE FOUNDATION	0303.16.052922	11	454	32,285			
					32,285		
Passthrough/Partial Passthrough							
NATIONAL FISH AND WILDLIFE FOUNDATION	63442	11	463	-133			
NATIONAL FISH AND WILDLIFE FOUNDATION	A18-0506-001	11	463	53,202			
SONOMA COUNTY WATER AGENCY	TW 1415-102	11	463	155,871			
					208,940		
Passthrough/Partial Passthrough							
CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	P1670004	11	472	775,498			
NORTH PACIFIC RESEARCH BOARD	1408	11	472	28,556			
NORTH PACIFIC RESEARCH BOARD	1610	11	472	109,525			
NORTH PACIFIC RESEARCH BOARD	A18-0177-001	11	472	18,448			
PRINCE WILLIAM SOUND SCIENCE CENTER	12-81-01	11	472	7,892			
					939,919		
Passthrough/Partial Passthrough							
CALIFORNIA STATE COASTAL CONSERVANCY	17-022	11	478	24,825			
					24,825		
Passthrough/Partial Passthrough							
NATIONAL FISH AND WILDLIFE FOUNDATION	0302.16.053210	11	482	61,722			
NATURE CONSERVANCY	TNCHI_SCRIPPS_NOAAMESOPHO	11	482	8,566			
					70,288		
Passthrough/Partial Passthrough							
APPLIED TECHNOLOGY COUNCIL	1061-24-770 (SB1341-13-CQ-00C	11	609	262,934			
					262,934		
Passthrough/Partial Passthrough							
IOWA STATE UNIVERSITY	426-17-02B-CYC5	11	619	610,445			
					610,445		

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
DEPARTMENT OF DEFENSE	UNIVERSITY OF SOUTHERN CALIFORNIA	82976179-CYC1	12	300	96,192	
	UNIVERSITY OF SOUTHERN CALIFORNIA	85470620	12	300	139,109	
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 84902573 (N00014-17-1-206;	12	300	186,053	
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	00122211B	12	300	137,655	
	UNIVERSITY OF VIRGINIA	GG11764 146901-CYC1	12	300	240,296	
	UNIVERSITY OF VIRGINIA	GG11821 148033:01	12	300	79,630	
	UNIVERSITY OF WASHINGTON	UWSC9067	12	300	423,546	
	UNIVERSITY OF WASHINGTON	UWSC9069	12	300	207,103	
	UNIVERSITY OF WASHINGTON	UWSC9478	12	300	72,566	
	VANDERBILT UNIVERSITY	2489-018400	12	300	580	
	SYSTEMS & TECHNOLOGY RESEARCH LLC	2017-0044-CYC1	12	300	32,066	
					6,574,029	
	Passthrough/Partial Passthrough					
	LEIDOS, INC.	SUB 10163495 (N62645-14-C-403	12	301	161,803	
	LEIDOS, INC.	88648	12	301	-16,694	
					145,109	
	Passthrough/Partial Passthrough					
	GE GLOBAL RESEARCH	401077965-CYC1	12	335	52,014	
					52,014	
	Passthrough/Partial Passthrough					
	OREGON HEALTH & SCIENCE UNIVERSITY	1010447_UCSF	12	340	278,423	
	SOAR TECHNOLOGY, INC.	SC17008	12	340	52,170	
	UNIVERSITY OF PITTSBURGH	0043845-1	12	340	260,837	
					591,430	
Passthrough/Partial Passthrough						
CAYETANO HEREDIA UNIVERSITY	20154556	12	350	-83		
				-83		
Passthrough/Partial Passthrough						
ARIZONA STATE UNIVERSITY/TEMPE	17151	12	351	120,000		
METABIOTA, INC	201405DTRA	12	351	1,313,120	802,033	
METABIOTA, INC	201406DTRA	12	351	859,070	620,475	
OHIO STATE UNIVERSITY	60059839	12	351	177,493		
SOUTHERN METHODIST UNIVERSITY	GA00140-7510	12	351	36,764		
TEMPLE UNIVERSITY	258954-UCLA:1	12	351	30,048		
TEXAS A&M UNIVERSITY - COLLEGE STATION	S162368/M160283C	12	351	70,634		
UNIVERSITY OF NEVADA, LAS VEGAS/UNLV RESEARCH FOUNDATION	17-22FW-00	12	351	79,118		
UNIVERSITY OF TENNESSEE	A18-0780-S001	12	351	13,524		
VANDERBILT UNIVERSITY	3044-018968	12	351	51,075		
VANDERBILT UNIVERSITY	UNIV59843	12	351	24,955		
WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-15-309 (HDTRA1151003;	12	351	151,472		
				2,927,273	1,422,508	
Passthrough/Partial Passthrough						
LUNA INNOVATIONS INCORPORATED	3287-DPA-2S/UCI-CYC1	12	360	7,665		
				7,665		
Passthrough/Partial Passthrough						
AMERICAN BURN ASSOCIATION	SUB NONE(W81XWH-10-1-0527)	12	420	17,020		
AMERICAN BURN ASSOCIATION	W81XWH-16-2-0048	12	420	138,394		
AMERICAN BURN ASSOCIATION	W81XWH-16-2-0055	12	420	237,557		
BOSTON UNIVERSITY	450000823:005	12	420	23		
BRONX VETERANS MEDICAL RESEARCH FOUNDATION	W81XWH-13-1-0071	12	420	26,192		
CEDARS-SINAI MEDICAL CENTER	0001319676	12	420	60,545		
CHILDREN'S HOSPITAL OF PHILADELPHIA	88310	12	420	199		
DUKE UNIVERSITY	SUB 3130729(W81XWH-17-1-037;	12	420	36,154		
GENEVA FOUNDATION	201400882	12	420	2,132		
GENEVA FOUNDATION	59476	12	420	-115		
GEORGETOWN UNIVERSITY	AWD-4222804-CYC2	12	420	205,244		
HENRY FORD HEALTH SYSTEM	B70089UCSF	12	420	58,077		
HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE	3582 PO 887817	12	420	107,982		
HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE	823738/WX81XWH112017	12	420	277,721		
HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE	4096	12	420	463,258		
JOHNS HOPKINS UNIVERSITY	125025	12	420	60,766		
JOHNS HOPKINS UNIVERSITY	2002015246/METRC2	12	420	296		
JOHNS HOPKINS UNIVERSITY	2002397378:2	12	420	111,261		
JOHNS HOPKINS UNIVERSITY	2002458529	12	420	1,069		

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			Prefix	Extension			
DEPARTMENT OF DEFENSE	JOHNS HOPKINS UNIVERSITY	SUB 2003728025 (W81XWH-14-1-	12	420	287,284		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B612254	12	420	29,461		
	LGS INNOVATIONS LLC	LGS141160G	12	420	88,048		
	MASSACHUSETTS EYE AND EAR INFIRMARY	2300145	12	420	54,312		
	MASSACHUSETTS GENERAL HOSPITAL	229338-CYC1	12	420	5,241		
	MASSACHUSETTS GENERAL HOSPITAL	W81XWH-17-1-0492	12	420	1,593		
	MEDICAL COLLEGE OF WISCONSIN	20153757-1	12	420	46,768		
	MEDICAL COLLEGE OF WISCONSIN	A125339	12	420	109,488		
	NATIONAL JEWISH HEALTH	20108701	12	420	48,394		
	NATIONAL TRAUMA INSTITUTE	NTI-JWMP-201501	12	420	112,194		
	NATIONAL TRAUMA INSTITUTE	NTI-NTRR15-05	12	420	3,589		
	NATIONAL TRAUMA INSTITUTE	SUB NTI-JWMP-201502(W81XWI	12	420	286,409	237,869	
	NATIONAL TRAUMA INSTITUTE	NTI-CLOTT17-12	12	420	148,721		
	NATIONAL TRAUMA INSTITUTE	SUB NTI-CLOTT17-11 (W81XWH-	12	420	54,765		
	NEW YORK UNIVERSITY	B3219	12	420	59		
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	1812	12	420	16,712		
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	94109	12	420	-1,756		
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	WEI1872-02	12	420	255,324		
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	WEI187205094728	12	420	7,712		
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	1814	12	420	27,720		
	OCEANIT LABORATORIES, INC.	79449	12	420	-1,106		
	OREGON HEALTH & SCIENCE UNIVERSITY	1008335_UCSF	12	420	244,054		
	PACIFIC HEALTH RESEARCH AND EDUCATION INSTITUTE	SUB PHREI-21501-01(W81XWH-1!	12	420	49,653		
	PARTNERS HEALTHCARE SYSTEM, INC	228593-1	12	420	140,892		
	PURDUE UNIVERSITY	4104-64057	12	420	49,514		
	RAND CORP	9920170033-CYC1	12	420	10,001		
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	8222	12	420	2,790		
	SPR THERAPEUTICS LLC	SUB 20161887 (W81XWH-12-2-01	12	420	48,962		
	STANFORD UNIVERSITY	61112906-117345	12	420	13,964		
	STANFORD UNIVERSITY	61357202-122325	12	420	78,489		
	STANFORD UNIVERSITY	61414227-117996	12	420	53,188		
	STANFORD UNIVERSITY	61763383-121561	12	420	11,860		
	STATE UNIVERSITY SYSTEM OF FLORIDA	22206065	12	420	68,529		
	TERUMO CORPORATION	W81XWH-13-C-0160	12	420	-171		
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000507860-014	12	420	13,667		
	TUFTS UNIVERSITY	ARM026	12	420	115,591		
	UNIVERSITY OF CINCINNATI	010376-002	12	420	105,990		
	UNIVERSITY OF COLORADO DENVER	FY16.794.007/1000616	12	420	-6,039		
	UNIVERSITY OF COLORADO DENVER	FY18.576.005	12	420	11,261		
	UNIVERSITY OF COLORADO DENVER	SUB FY17.794.016 (W81XWH-15-	12	420	541		
	UNIVERSITY OF MICHIGAN	3003219081-2	12	420	95,655		
	UNIVERSITY OF SOUTHERN CALIFORNIA	69094653-CYC3	12	420	371		
	UNIVERSITY OF SOUTHERN CALIFORNIA	69986229-CYC2	12	420	2,060		
	UNIVERSITY OF SOUTHERN CALIFORNIA	70043783-CYC2	12	420	3,288		
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0013377B	12	420	4,470		
	UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON	15-017	12	420	63,539		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA ADV LANG (W81XWH-15-1-0:	12	420	21,288		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA JAK (W81XWH-11-1-0641)	12	420	4,265		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA JAK 08174004 (W81XWH-11-	12	420	1,937		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA JAK(W81XWH-11-1-0641)	12	420	1,666		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LANG 298028 (W81XWH-10-1	12	420	12,866		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MORLAND(W81XWH-12-1-06	12	420	1,446		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA NORMAN (W81XWH-15-1-00:	12	420	17,001		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA ZURAW 08842001 (W81XWH-	12	420	2,777		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA ZURAW 313179 W81XWH-14-	12	420	21,081		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA BAKER (W81XWH-16-1-0015)	12	420	27,357		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GOLSHAN W81XWH-15-1-03:	12	420	23,519		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA NORMAN (W81XWH-15-1-03:	12	420	49,621		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA STEIN (W81XWH-11-1-0073)	12	420	13,169		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA STEIN (W81XWH-11-1-0073)	12	420	9,252		
	WAKE FOREST UNIVERSITY	WFUHS 441005B GU-05	12	420	185,989		
	WAKE FOREST UNIVERSITY	WFUHS 441042 CTA-12	12	420	-1,256		
	DALHOUSIE UNIVERSITY	044343	12	420	709		
	LOGY BIOSERVICES, INC.	W15QKN-16-9-1002	12	420	822,636		
	PALMER COLLEGE OF CHIROPRACTIC	DOD2260	12	420	13,422		
					5,795,571	237,869	
		Passthrough/Partial Passthrough					
		UNIVERSITY OF PUERTO RICO	88739	12	421	-4,814	
						-4,814	

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients	
DEPARTMENT OF DEFENSE	Passthrough/Partial Passthrough						
	CALIFORNIA INSTITUTE OF TECHNOLOGY	438-1097280	12	431	697,308		
	CALIFORNIA INSTITUTE OF TECHNOLOGY	SUB 438-1097279 (W911NF-16-1-	12	431	117,983		
	CALIFORNIA STATE UNIVERSITY, NORTHRIDGE	F-14-3462UCLA-5	12	431	32,755		
	COLORADO STATE UNIVERSITY	G-33024-1-CYC1	12	431	10,148		
	COOPERATIVE ECOSYSTEM STUDIES UNITS	W912HZ-14-2-0027	12	431	1		
	CORNELL UNIVERSITY	76091-10531	12	431	419,556		
	CORNELL UNIVERSITY	78845-10693	12	431	171,584		
	DCS CORPORATION	NONE (W911NF-10-2-0022)	12	431	415,811		
	DUKE UNIVERSITY	313-0590-CYC3	12	431	164,372		
	GALOIS INC	2015-001-CYC10	12	431	737,540		
	GEORGIA INSTITUTE OF TECHNOLOGY	RF228-G1	12	431	19,805		
	HARVARD UNIVERSITY	152295.5082220.0002	12	431	259,635		
	INTERNATIONAL BUSINESS MACHINES CORPORATION	W911NF-16-3-0001	12	431	249,105		
	JOHNS HOPKINS UNIVERSITY	2003550747	12	431	119,376		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	79400	12	431	12,194		
	LEHIGH UNIVERSITY	543152-78001:3	12	431	89,081		
	MASSACHUSETTS GENERAL HOSPITAL	W911NF-16-C-0079	12	431	161,676		
	METRO ENGINEERING AND SURVEYING CO., INC.	85290	12	431	626		
	MICROELECTRONICS ADVANCED RESEARCH CORPORATION	2013-MA-2382	12	431	3,139,283	2,267,671	
	OCEAN NANOTECH	20143181	12	431	51,397		
	OHIO STATE UNIVERSITY	OSU60043375/RF01358012:06	12	431	155,215		
	STANFORD UNIVERSITY	60284806-107307-C	12	431	89,145		
	TOYON RESEARCH CORPORATION	SC16-6970-1	12	431	86,407		
	UNIVERSITY OF CHICAGO	FP057787-C:3	12	431	20,199		
	UNIVERSITY OF ILLINOIS	SUB 2015-05174-03 (W911NF-15-	12	431	62,065		
	UNIVERSITY OF MARYLAND	37919-Z8424101	12	431	203,737		
	UNIVERSITY OF MASSACHUSETTS AMHERST	SUB 16-008956 B(W911NF-15-1-0	12	431	721		
	UNIVERSITY OF MICHIGAN	88694	12	431	23,843	8,077	
	UNIVERSITY OF MICHIGAN	3004628715	12	431	107,004		
	UNIVERSITY OF MISSOURI	C00045065-2	12	431	172,106		
	UNIVERSITY OF MISSOURI	C00045065-3	12	431	214,130		
	UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE	874C9	12	431	117		
	UNIVERSITY OF PENNSYLVANIA	571714	12	431	92,061		
	UNIVERSITY OF SOUTHERN CALIFORNIA	80483423	12	431	205,884		
	UNIVERSITY OF WASHINGTON	SUB UWSC10378(W911NF-17-1-0)	12	431	8,137		
	THE GAIA MEDICAL INSTITUTE LLC	88918	12	431	-7,414		
	WORCESTER POLYTECHNIC INSTITUTE	18-TMP-01-215468-CYC1	12	431	61,706		
					8,364,299	2,275,747	
		Passthrough/Partial Passthrough					
		QUESTEK INNOVATIONS LLC	009524	12	450	44,591	
						44,591	
		Passthrough/Partial Passthrough					
		INSTITUTE OF INTERNATIONAL EDUCATION	0054-UCLA-10:1	12	550	297,185	
						297,185	
		Passthrough/Partial Passthrough					
		HYPRES, INC.	20153278	12	615	64,078	
						64,078	
		Passthrough/Partial Passthrough					
		UNIVERSITY OF SOUTHERN CALIFORNIA	113597-1-CYC3	12	617	4,296	
						4,296	
		Passthrough/Partial Passthrough					
		ACADEMY OF APPLIED SCIENCE	AAS-206699-CYC1	12	630	146	
	ACADEMY OF APPLIED SCIENCE	AAS-206700-CYC1	12	630	146		
	ACADEMY OF APPLIED SCIENCE	AAS-209137-CYC1	12	630	9,400		
	ACADEMY OF APPLIED SCIENCE	AAS-209138-CYC1	12	630	13,407		
	PENNSYLVANIA STATE UNIVERSITY	006576	12	630	469,330		
	PENNSYLVANIA STATE UNIVERSITY	4957UCDARMY0045	12	630	713,155		
	RAYTHEON BBN TECHNOLOGIES CORP.	W911NF-09-2-0053	12	630	809,223		
	SYSTEM OF SYSTEMS SECURITY CONSORTIUM	SUB 1006-15-1-3 (W15QKN-12-9-	12	630	44,556		
	TULANE UNIVERSITY	TUL-SCC-553849-15/16	12	630	12,611		
	UNIVERSITY OF ILLINOIS	088831-16649	12	630	90,454		
	UNIVERSITY OF PENNSYLVANIA	SUB 572622(W911NF-17-2-0181)	12	630	16,181		
	UNIVERSITY OF PENNSYLVANIA	572622	12	630	5,962		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LEUNG (W81XWH-16-1-0754)	12	630	127,309		
	TASSO, INC.	20174246	12	630	17,093		

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF DEFENSE					2,328,973	
	Passthrough/Partial Passthrough					
	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE	2942	12	750	11,296,917	
	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE	3404	12	750	38,170	
	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE	SUB 2880/837344 (HU0001-15-2-1	12	750	434,284	
	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE	3689-CYC1	12	750	255,326	
					12,024,697	
	Passthrough/Partial Passthrough					
	AECOM TECHNICAL SERVICES	A18-0733-001	12	800	34,568	
	APOGEE RESEARCH LLC	201802-CYC10	12	800	101,362	
	BAE SYSTEMS (GREAT BRITAIN)	316063	12	800	366,339	
	BROWN UNIVERSITY	00000552	12	800	43,686	
	CALIFORNIA INSTITUTE OF TECHNOLOGY	52-1092313:8	12	800	29,155	
	CALIFORNIA INSTITUTE OF TECHNOLOGY	68-1098510	12	800	1,688	
	CALIFORNIA INSTITUTE OF TECHNOLOGY	102-1098625	12	800	17,632	
	CARBON TECHNOLOGY, INC.	CTI-205420-CYC1	12	800	161,808	
	CFD RESEARCH CORPORATION	20121004	12	800	2,205	
	CHARLES RIVER ANALYTICS	SC1607602-CYC1	12	800	108,829	
	FLEXTECH ALLIANCE	SUB MCA 00009475 (042299)	12	800	87,795	
	FLORIDA TURBINE TECHNOLOGIES, INC.	FTT160403	12	800	96,267	
	GEORGE MASON UNIVERSITY	E203722-1-CYC2	12	800	106,179	
	GEORGE WASHINGTON UNIVERSITY	86861	12	800	62,589	
	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE	80537	12	800	-6	
	JOHNS HOPKINS UNIVERSITY	2001622119	12	800	83,722	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003664	12	800	191,639	
	METRO LASER	UC123WP32-CYC2	12	800	8,974	
	MICROXACT INCORPORATED	59469	12	800	1,328	
	MORTON PHOTONICS	MP-UCS-03	12	800	50,399	
	NORTHWESTERN UNIVERSITY	SUB SP0032777-PROJ0008738 (F	12	800	-469,349	
	RICE UNIVERSITY	007847	12	800	46,145	
	SRI INTERNATIONAL	SUB PO15349 (FA8750-17-C-115)	12	800	107,499	
	STANFORD UNIVERSITY	008542	12	800	40,214	
	STANFORD UNIVERSITY	29182280-51677-C	12	800	28,086	
	STANFORD UNIVERSITY	60796566-114411:4	12	800	114,370	
	STATE UNIVERSITY OF NEW YORK	SB160126-0001B	12	800	165,698	
	STATE UNIVERSITY OF NEW YORK	SB160126-0004B	12	800	263,417	
	STATE UNIVERSITY OF NEW YORK	SB160126-0005B	12	800	157,280	
	STATE UNIVERSITY OF NEW YORK	SB160126-0007B	12	800	122,472	
	STATE UNIVERSITY OF NEW YORK	SB160126-ACADEMY2B	12	800	96,936	
	STATE UNIVERSITY OF NEW YORK	SB160126-ACADEMY3B	12	800	83,611	
	STATE UNIVERSITY OF NEW YORK	SB160126-0001A	12	800	-4,117	
	STATE UNIVERSITY OF NEW YORK	SB160126-0003C	12	800	291,738	
	STATE UNIVERSITY OF NEW YORK	SB160126-0004C	12	800	162,864	
	STATE UNIVERSITY OF NEW YORK	SB160126-0005C	12	800	148,015	
	STATE UNIVERSITY OF NEW YORK	SB160126-0007C	12	800	64,456	
	STATE UNIVERSITY OF NEW YORK	SB160126-0008C	12	800	28,105	
	STATE UNIVERSITY OF NEW YORK	SB160126-ACADEMY3C	12	800	14,414	
	STATE UNIVERSITY OF NEW YORK	SB160126-ADMIN 02	12	800	336,550	
	STATE UNIVERSITY OF NEW YORK	SB160126-GDP02	12	800	10,639	
	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	77020-1137156-2-CYC1	12	800	51,028	
	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	70297-1122373-2-CYC2	12	800	116,455	
	UNIVERSITY OF CENTRAL FLORIDA	24086151-01	12	800	157,614	
	UNIVERSITY OF CINCINNATI	36B04	12	800	51,413	20,834
	UNIVERSITY OF COLORADO BOULDER	009155	12	800	11,547	
	UNIVERSITY OF CONNECTICUT	SUB 141414 (FA9550-14-1-0351)	12	800	255,524	
	UNIVERSITY OF ILLINOIS	065435-13908	12	800	42,504	
	UNIVERSITY OF ILLINOIS	079253-15763-CYC3	12	800	40,566	
	UNIVERSITY OF MARYLAND	36954Z8165003	12	800	458,241	
	UNIVERSITY OF MARYLAND	7479-Z8142001:E	12	800	51,578	
	UNIVERSITY OF MARYLAND	Z812401:D	12	800	-359	
	UNIVERSITY OF MICHIGAN	3003832475:01	12	800	86,310	
	UNIVERSITY OF MICHIGAN	SUB 3002467897(FA9550-12-1-04	12	800	-99,376	
	UNIVERSITY OF MINNESOTA	A004376801	12	800	112,916	
	UNIVERSITY OF NEW MEXICO	271387-870D-CYC10	12	800	216,131	
	UNIVERSITY OF PENNSYLVANIA	SUB 561009 (FA9550-13-1-0097)	12	800	134,894	
	UNIVERSITY OF SOUTHERN CALIFORNIA	55231182-CYC3	12	800	170,042	
	UNIVERSITY OF TEXAS SYSTEM	UTA14-001123	12	800	131,441	
	UNIVERSITY OF TEXAS-PAN AMERICAN FOUNDATION	12602015166:1	12	800	306,767	
	UNIVERSITY OF UTAH	10038423-S2	12	800	79,493	

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients	
DEPARTMENT OF DEFENSE	UNIVERSITY OF WASHINGTON	SUB UWSC8748 (BPO10328)	12	800	156,031		
	UNIVERSITY OF WASHINGTON	A16-0323-002	12	800	152,995		
	UNIVERSITY OF WISCONSIN-MADISON	580K742	12	800	53,660		
	VIBRANT	784	12	800	189,097		
	VOXTEL, INC	AFRL-16-7638-UCI-ML-CYC1	12	800	107,625		
	YALE UNIVERSITY	876E7	12	800	163,275		
	JUJI, INC.	204997-CYC2	12	800	24,603		
	OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION	78138	12	800	-1,858		
	UNIVERSITY OF DAYTON	SUB RSC17069 (FA8651-16-D-031)	12	800	2,304		
					6,587,662	20,834	
	Passthrough/Partial Passthrough	SCIENTIFIC SIMULATION SYSTEMS, INC.	1409-SC002/FA7000-14-2-0017	12	801	74,598	
					74,598		
	Passthrough/Partial Passthrough	HYPRES, INC.	009476	12	810	35,883	
		QUANTUM DESIGN INTERNATIONAL, INC.	009473	12	810	40,934	
					76,817		
	Passthrough/Partial Passthrough	CARNEGIE MELLON UNIVERSITY	1990365-346574-CYC4	12	902	2,515	
					2,515		
	Passthrough/Partial Passthrough	ABBOTT LABORATORIES (INCL PERCLOSE)	20170050 (HR0011-16-C-0065)	12	910	7,511	
		ARIZONA STATE UNIVERSITY/TEMPE	17055	12	910	196,160	
		BOEING COMPANY, THE	1250821	12	910	136,045	
		BOEING COMPANY, THE	77591	12	910	705,417	
		BROAD INSTITUTE INC.	SUB 5000361-5500001046 (N6600	12	910	216,336	
	BROWN UNIVERSITY	SUB 00001055 (N66001-17-C-401	12	910	950,881		
	BROWN UNIVERSITY	A16-0282-005	12	910	23,520		
	BROWN UNIVERSITY	00001057	12	910	206,293		
	CHARLES RIVER ANALYTICS	SC1315902 (APRIL)-CYC1	12	910	94,281		
	COLUMBIA UNIVERSITY	1(GG011207)-CYC1	12	910	114,800		
	ERC, INCORPORATED	PO NO. PS160001	12	910	131,501		
	HARVARD UNIVERSITY	152236.5099921.0005-CYC1	12	910	79,933		
	HARVARD UNIVERSITY	SUB 152220.5094542.0005	12	910	-53,430		
	HP INC.	59269	12	910	42,125		
	INTERNATIONAL BUSINESS MACHINES CORPORATION	SUB 4915012801 (W911NF-15-C-C	12	910	63,676		
	JOHNS HOPKINS UNIVERSITY	2003366140	12	910	332,065		
	JOHNS HOPKINS UNIVERSITY	2003367845	12	910	619,898		
	JOHNS HOPKINS UNIVERSITY	2003625731	12	910	79,891		
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003584	12	910	17,565		
	MICROELECTRONICS ADVANCED RESEARCH CORPORATION	006111	12	910	145,704		
	MICROELECTRONICS ADVANCED RESEARCH CORPORATION	2013-MA-2386	12	910	2,832,113	1,404,808	
	MICROELECTRONICS ADVANCED RESEARCH CORPORATION	442580/2A-57125	12	910	272,058		
	NORTHEASTERN UNIVERSITY	505068-708050	12	910	369,437		
	PROFUSA, INC.	W911NF-16-1-0341	12	910	318,791		
	RAYTHEON BBN TECHNOLOGIES CORP.	008658	12	910	135,089		
	SOTERA DEFENSE SOLUTIONS, INC.	SC150119	12	910	264,046		
	SRI INTERNATIONAL	27-001455	12	910	119,744		
	TELEDYNE TECHNOLOGIES, INC.	PO00099849	12	910	1,704		
	UNIVERSITY OF COLORADO BOULDER	1550663	12	910	25,471		
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	1550652:9	12	910	79,441		
	UNIVERSITY OF MARYLAND	61397-Z9112201-CYC1	12	910	16,700		
	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	873D5	12	910	-2,983		
	UNIVERSITY OF MELBOURNE	DARPA-CROZIER-1	12	910	269,338		
	UNIVERSITY OF MICHIGAN	3004849812	12	910	32,160		
	UNIVERSITY OF MINNESOTA	008590	12	910	122,768		
	UNIVERSITY OF MINNESOTA	80192	12	910	1,540		
	UNIVERSITY OF NOTRE DAME (INCL GEM)	202092-UCB LEAST	12	910	31,185		
	UNIVERSITY OF NOTRE DAME (INCL GEM)	SB150081	12	910	98,041		
	UNIVERSITY OF NOTRE DAME (INCL GEM)	208107UCI-CYC1	12	910	589,190		
	UNIVERSITY OF TEXAS-DALLAS	1705120	12	910	487,461		
	UNIVERSITY OF UTAH	10036982-UCI-CYC10	12	910	178,146		
	VANDERBILT UNIVERSITY	3128-019187	12	910	327,722		
	BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH, INC.	1705	12	910	1,167,654		
	INTERNATIONAL COMPUTER SCIENCE INSTITUTE	78973	12	910	-64,810		
	JOHN B. PIERCE LABORATORY, INC., THE	275-E	12	910	121,921		
	SUN MICROSYSTEMS LABORATORIES, INC.	82846	12	910	11,628		

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			Prefix	Extension	Federal Expenditures	Subrecipients
DEPARTMENT OF DEFENSE					11,915,727	1,404,808
	Direct					
	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	VARIOUS	12	RD	47,194,521	10,648,312
	SEPARATE AGENCIES	VARIOUS	12	RD	5,878,386	481,773
	DEPARTMENT OF ARMY	VARIOUS	12	RD	85,933,574	17,868,509
	DEPARTMENT OF AIR FORCE	VARIOUS	12	RD	24,642,937	3,403,005
	DEPARTMENT OF NAVY	VARIOUS	12	RD	77,513,607	9,041,661
	DEPARTMENT OF NAVY (ARRA)	VARIOUS	12	RD	6,192	
	DEFENSE THREAT REDUCTION AGENCY	VARIOUS	12	RD	7,916,962	815,185
	Passthrough/Partial Passthrough					
	AMERICAN BURN ASSOCIATION	201119157	12	RD	16,210	
	AMERICAN BURN ASSOCIATION	201121884	12	RD	4,387	
	AMERICAN BURN ASSOCIATION	26163	12	RD	-1,000	
	ANALOG PHOTONICS LLC	SUB-2-HR0011-16- C-0108	12	RD	22,775	
	ARGONNE NATIONAL LABORATORY (DOE GOCO LAB OPERATED BY UNIV OF CHICAGO)	6F30603	12	RD	146,959	
	ARGONNE NATIONAL LABORATORY (DOE GOCO LAB OPERATED BY UNIV OF CHICAGO)	7F-30158	12	RD	58,500	
	BAE SYSTEMS (GREAT BRITAIN)	846660	12	RD	130,378	
	BATTELLE MEMORIAL INSTITUTE	575140	12	RD	38,370	
	BORON SPECIALTIES, LLC	009563	12	RD	28,814	
	BRAIN TRAUMA FOUNDATION, INC.	B0479	12	RD	-5,001	
	BROAD INSTITUTE INC.	5000361-5500001045-CYC1	12	RD	76,392	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SA0000449	12	RD	34,447	
	CHARLES RIVER ANALYTICS	SC1708701-CYC1	12	RD	52,320	
	COLORADO STATE UNIVERSITY	G-09573-01	12	RD	48,947	
	COLUMBIA UNIVERSITY	2GG011207	12	RD	259,950	
	DISTANT FOCUS CORPORATION	871GF	12	RD	-932	
	ENGLITY CORP.	2015SEGL0112	12	RD	53,839	
	ENSCO, INC.	G273713884	12	RD	31,243	
	FLEXTECH ALLIANCE	042299	12	RD	247,789	
	FLEXTECH ALLIANCE	RFP15-175	12	RD	48,705	
	HLS RESEARCH, INC.	SUB 2017-104 (N00014-17-C-704)	12	RD	23,889	
	INFOSCITEX CORPORATION	PO 180799	12	RD	29,005	
	JOHNS HOPKINS UNIVERSITY	134841	12	RD	11,858	
	JOHNS HOPKINS UNIVERSITY	2002761143	12	RD	106,793	
	JOHNS HOPKINS UNIVERSITY	2003506204	12	RD	145,625	
	KITWARE, INC.	K001892-00-S02	12	RD	283,668	
	LOGISTIC GLIDERS INC	201602876	12	RD	130,207	
	LOS ALAMOS NATIONAL SECURITY, LLC	346271	12	RD	216,985	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003875	12	RD	111,841	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003939	12	RD	56,219	25,005
	MATERIALS SCIENCES CORPORATION	208285 P.O. 10199-SD36-CYC1	12	RD	15,316	
	MAYACHITRA, INC.	007843	12	RD	121,832	
	MAYACHITRA, INC.	008228	12	RD	81,473	
	MAYACHITRA, INC.	UCSB-16-C-0028	12	RD	70,574	
	MCCONNELL FOUNDATION (THE)	29B39	12	RD	298,766	
	METRON, INCORPORATED	008423	12	RD	109,436	
	MICROELECTRONICS ADVANCED RESEARCH CORPORATION	20130445	12	RD	4,001	
	MICROELECTRONICS ADVANCED RESEARCH CORPORATION	20130533	12	RD	41,084	
	NEW JERSEY INSTITUTE OF TECHNOLOGY	SUB (NP) 996402(W911NF-15-C-0	12	RD	142,690	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	1679	12	RD	12,653	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	88130	12	RD	1,460	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	85724	12	RD	-5	
	NORTHROP GRUMMAN CORPORATION	A18-1687	12	RD	90,000	
	NORTHROP GRUMMAN SYSTEMS CORPORATION	4502026470	12	RD	82,485	
	OLEANDR SCIENTIFIC LLC	OS-208291-CYC1	12	RD	51,003	
	PENNSYLVANIA STATE UNIVERSITY	5576UCDACC0003	12	RD	78,592	
	PRINCETON UNIVERSITY	SUB0000116	12	RD	1,909	
	RADIABEAM TECHNOLOGIES, LLC	201602621	12	RD	8,733	
	RAYTHEON BBN TECHNOLOGIES CORP.	007176	12	RD	92,384	
	RAYTHEON BBN TECHNOLOGIES CORP.	W911NFO920053	12	RD	198,225	
	RAYTHEON BBN TECHNOLOGIES CORP.	14754	12	RD	95,882	
	RAYTHEON COMPANY	85684	12	RD	2,723	
	RESEARCH FOUNDATION FOR STATE UNIVERSITY OF NEW YORK, THE	201503002	12	RD	199,824	
	RESEARCH FOUNDATION FOR STATE UNIVERSITY OF NEW YORK, THE	201704070	12	RD	49,108	
	RESEARCH FOUNDATION FOR STATE UNIVERSITY OF NEW YORK, THE	31B24	12	RD	50,000	
	ROYAL CALIBER LLC	28599	12	RD	-51,537	
	SOAR TECHNOLOGY, INC.	SC-17-019	12	RD	35,326	
	STATE UNIVERSITY OF NEW YORK POLYTECHNIC INSTITUTE	AIM-014 C.1	12	RD	76,981	
	STATE UNIVERSITY OF NEW YORK POLYTECHNIC INSTITUTE	AIM-014 C.2	12	RD	78,587	
	STATE UNIVERSITY OF NEW YORK POLYTECHNIC INSTITUTE	MCE_EPDA005	12	RD	477,636	

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients	
DEPARTMENT OF DEFENSE	SYLVATICA BIOTECH, INC.	20162072	12	RD		18,717	
	TULANE UNIVERSITY	TULHSC5131314	12	RD		53,526	
	UNIVERSITY OF ALASKA	UAF 17-0094	12	RD		356,157	
	UNIVERSITY OF CENTRAL FLORIDA	24086133-02	12	RD		263,094	
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	W81XWH-15-1-0584	12	RD		80,225	
	UNIVERSITY OF IDAHO	GWK121SB001	12	RD		2,772	
	UNIVERSITY OF ILLINOIS	077083-16369	12	RD		328,431	
	UNIVERSITY OF ILLINOIS	2013-01024-01	12	RD		273,013	
	UNIVERSITY OF MICHIGAN	3002565241	12	RD		90,913	
	UNIVERSITY OF MINNESOTA	A003571420	12	RD		65,072	
	UNIVERSITY OF SOUTHERN CALIFORNIA	92312369-CYC1	12	RD		137,819	
	VACUUM PROCESS ENGINEERING, INC	A17-0434	12	RD		107,449	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	877B3	12	RD		13,585	
	ZYMERGEN, INC.	4209	12	RD		101,624	
	GRANITE POINT VENTURES	A17-0341	12	RD		75,000	
	MILITARY HEALTH RESEARCH FOUNDATION	A17-0189	12	RD		67,210	
	MODULATED IMAGING, INC.	MI-208026-CYC1	12	RD		47,316	
	NATIONAL UNIVERSITY OF SINGAPORE	RL2016-157	12	RD		67,815	
	SEMICONDUCTOR RESEARCH CORPORATION	2018-JU-2778	12	RD		14,507	
	THE MCCONNELL GROUP, INC.	TMGSUBK0112016	12	RD		25,625	
						256,202,372	42,283,451
DEPARTMENT OF DEFENSE Total						315,020,629	47,645,217
CENTRAL INTELLIGENCE AGENCY							
	Passthrough/Partial Passthrough						
	UNIVERSITY OF UTAH	006950	13	431		419,053	
						419,053	
	Passthrough/Partial Passthrough						
	DUKE UNIVERSITY	283-0280	13	RD		2,521	
	DUKE UNIVERSITY	283-1047	13	RD		3,656	
						6,177	
CENTRAL INTELLIGENCE AGENCY Total						425,230	
DEPARTMENT OF INTERIOR							
	Passthrough/Partial Passthrough						
	INTERTRIBAL COURT OF SOUTHERN CALIFORNIA	20183015	15	029		39,521	
						39,521	
	Passthrough/Partial Passthrough						
	UNIVERSITY OF NEVADA, LAS VEGAS/UNLV RESEARCH FOUNDATION	007919	15	231		12,050	
						12,050	
	Passthrough/Partial Passthrough						
	UNIVERSITY OF WISCONSIN-MADISON	714K335	15	232		9,614	
						9,614	
	Passthrough/Partial Passthrough						
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SA0000474	15	423		64,067	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SA0000513	15	423		7,146	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SA0000544	15	423		76,638	
						147,851	
	Passthrough/Partial Passthrough						
	METROPOLITAN WATER DIST OF SO CALIFORNIA	163764	15	530		5,955	
	METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	008263	15	530		2,789	
						8,744	
	Passthrough/Partial Passthrough						
	CALIFORNIA STATE COASTAL CONSERVANCY	16-044	15	614		16,323	
	CALIFORNIA STATE COASTAL CONSERVANCY	18257	15	614		182,757	
						199,080	
	Passthrough/Partial Passthrough						
	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	P1582003	15	615		40,379	
	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	P1620105	15	615		76,966	
	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	P1740401	15	615		100,968	1,413
						218,313	1,413
	Passthrough/Partial Passthrough						
	CALIFORNIA STATE COASTAL CONSERVANCY	28B55	15	623		59,255	
						59,255	

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DEPARTMENT OF INTERIOR	Passthrough/Partial Passthrough						
	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	P1480014	15	634		724	
	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	P1680038	15	634		29,494	
	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	P1780004	15	634		3,604	
	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	P1791002-00	15	634		58,538	
						92,360	
	Passthrough/Partial Passthrough						
	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	83736	15	650		-25	
	SOUTHWEST WETLANDS INTERPRETIVE ASSOCIATION	20160861:1	15	650		1,035	
	SOUTHWEST WETLANDS INTERPRETIVE ASSOCIATION	79703	15	650		51,252	
						52,262	
	Passthrough/Partial Passthrough						
	WILDLIFE MANAGEMENT INSTITUTE	A16-0493-001	15	657		27,311	
						27,311	
	Passthrough/Partial Passthrough						
	NATIONAL FISH AND WILDLIFE FOUNDATION	0302.16.053589	15	663		68,880	
	TROUT UNLIMITED	20162013	15	663		99,135	
						168,015	
	Passthrough/Partial Passthrough						
	UNIVERSITY OF SOUTH CAROLINA	007931	15	805		6,446	
						6,446	
	Passthrough/Partial Passthrough						
	UNIVERSITY OF SOUTHERN CALIFORNIA	38838	15	807		20,000	
	UNIVERSITY OF SOUTHERN CALIFORNIA	38839	15	807		32,000	
	UNIVERSITY OF SOUTHERN CALIFORNIA	38842	15	807		14,295	
	UNIVERSITY OF SOUTHERN CALIFORNIA	81671	15	807		18,700	
	UNIVERSITY OF SOUTHERN CALIFORNIA	91270139-MSI-A	15	807		48,922	
	UNIVERSITY OF SOUTHERN CALIFORNIA	91273027	15	807		11,081	
	UNIVERSITY OF SOUTHERN CALIFORNIA	KAGAN-91271617	15	807		25,000	
	SOUTHERN CALIFORNIA EARTHQUAKE CENTER	91269501	15	807		19,579	
						189,577	
	Passthrough/Partial Passthrough						
	AMERICAVIEW, INC.	AV13CA01	15	815		2,164	
						2,164	
	Passthrough/Partial Passthrough						
	NATURE CONSERVANCY	OCS-NCEAS-02012016	15	820		18,106	
	NATURE CONSERVANCY	OCS-NCEASE-USGS-12062016	15	820		67,348	
	UNIVERSITY OF ARIZONA	221641	15	820		136,629	59,097
	UNIVERSITY OF ARIZONA	223659	15	820		95,326	
	UNIVERSITY OF ARIZONA	Y561461:7	15	820		124,780	
	UNIVERSITY OF ARIZONA	Y561946	15	820		154,151	
	UNIVERSITY OF ARIZONA	227572:2	15	820		30,222	
	UNIVERSITY OF ARIZONA	419572	15	820		23,975	14,256
	OCEANS INITIATIVE	A18-0559-001	15	820		5,636	
						656,173	73,353
	Direct						
	DEPARTMENT OF INTERIOR	VARIOUS	15	RD		15,790,967	533,184
	Passthrough/Partial Passthrough						
	CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS	C89560510	15	RD		2,494	
	CALIFORNIA DIVISION OF BOATING AND WATERWAYS	C1370030	15	RD		159,914	
	METRO LASER	UCI25DI01-CYC1	15	RD		12,335	
	UNIVERSITY OF GEORGIA	RR2677094353608	15	RD		4,887	
						15,970,597	533,184
DEPARTMENT OF INTERIOR Total						17,859,333	607,950
DEPARTMENT OF JUSTICE	Passthrough/Partial Passthrough						
	UNIVERSITY OF SOUTHERN CALIFORNIA	74457911-CYC2	16	123		21,673	
						21,673	
	Passthrough/Partial Passthrough						
	ARKANSAS STATE UNIVESITY	14-678-15-CYC2	16	560		55,497	
	COLORADO STATE UNIVERSITY	SUB G-75544-01 (2016-DN-BX-41)	16	560		14,734	
	PACIFIC INSTITUTE FOR RESEARCH AND EVALUATION	SUB 0874(2016-CK-BX-0008)	16	560		36,584	

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
DEPARTMENT OF JUSTICE	UNIVERSITY OF COLORADO BOULDER	1553430 (2015-DN-BX-K016	16	560	84,385	
	AMERICAN INSTITUTES FOR RESEARCH IN THE BEHAVIORAL SCIENCES	0395200003-CYC1	16	560	39,363	
	RESEARCH FOUNDATION CUNY, CITY UNIVERSITY OF NEW YORK	49274-C	16	560	147,953	
	RESEARCH FOUNDATION CUNY, CITY UNIVERSITY OF NEW YORK	49274-D	16	560	189,281	
					567,797	
	Passthrough/Partial Passthrough					
	CONTRA COSTA COUNTY	20-084-0	16	590	230,296	
					230,296	
	Passthrough/Partial Passthrough					
	NATIONAL 4-H COUNCIL	21B74	16	726	63,768	19,225
NATIONAL 4-H COUNCIL	71A77	16	726	1,031		
NATIONAL 4-H COUNCIL	75B94	16	726	5,069	8	
				69,868	19,232	
Direct						
DEPARTMENT OF JUSTICE	VARIOUS	16	RD	2,624,154	258,867	
				2,624,154	258,867	
DEPARTMENT OF JUSTICE Total				3,513,788	278,099	
DEPARTMENT OF LABOR	Passthrough/Partial Passthrough					
	CHAFFEY COLLEGE	007218	17	282	18,872	
					18,872	
	Direct					
	DEPARTMENT OF LABOR	VARIOUS	17	RD	297,525	
Passthrough/Partial Passthrough						
L&M POLICY RESEARCH, LLC	59430	17	RD	-235		
				297,290		
DEPARTMENT OF LABOR Total				316,162		
DEPARTMENT OF STATE	Passthrough/Partial Passthrough					
	AFRICAN MEDICAL AND RESEARCH FOUNDATION	00009510	19	029	57,878	
					57,878	
	Passthrough/Partial Passthrough					
	ASPEN INSTITUTE, THE	SI_UCB1_SUBR-2016	19	415	44,739	
	ASPEN INSTITUTE, THE	043925	19	415	34,901	
					79,640	
	Direct					
	DEPARTMENT OF STATE	VARIOUS	19	RD	50,087,500	32,002,661
	DEPARTMENT OF STATE (ARRA)	VARIOUS	19	RD	18,306	
Passthrough/Partial Passthrough						
UNITED STATE COMMISSION ON INTERNATIONAL RELIGIOUS FREEDOM	USCIRF16257	19	RD	21,246		
UNIVERSITY OF NOTRE DAME (INCL GEM)	202809UCB	19	RD	33,831		
				50,160,883	32,002,661	
DEPARTMENT OF STATE Total				50,298,401	32,002,661	
DEPARTMENT OF TRANSPORT	Passthrough/Partial Passthrough					
	CITY AND COUNTY OF SAN FRANCISCO	VPPL-6328(054)	20	200	372,076	
	CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION	84547	20	200	27,916	
	VIRGINIA TRANSPORTATION RESEARCH COUNCIL	111463	20	200	42,952	
					442,944	
	Passthrough/Partial Passthrough					
	OREGON DEPARTMENT OF TRANSPORTATION	30286	20	215	155,504	129,660
					155,504	129,660
	Passthrough/Partial Passthrough					
	CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION	65A0521	20	237	345,843	187,841
					345,843	187,841
	Passthrough/Partial Passthrough					
	CALIFORNIA HIGH-SPEED RAIL AUTHORITY (ARRA)	HSR15-97	20	319	664,941	196,596
					664,941	196,596
	Passthrough/Partial Passthrough					
CALIFORNIA OFFICE OF TRAFFIC SAFETY	AL1732	20	608	475,745	423,048	
CALIFORNIA OFFICE OF TRAFFIC SAFETY	AL18029	20	608	431,022	320,013	

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF TRANSPORT					906,767	743,062
	Passthrough/Partial Passthrough					
	CORNELL UNIVERSITY	7984110829	20	701	217,726	
	TEXAS A&M UNIVERSITY - COLLEGE STATION	008768	20	701	171,557	
	UNIVERSITY OF NORTH CAROLINA SYSTEM	5106575	20	701	331,541	
	UNIVERSITY OF SOUTHERN CALIFORNIA	84381457-CYC1	20	701	441,056	
	UNIVERSITY OF SOUTHERN CALIFORNIA	009537	20	701	5,807	
	UNIVERSITY OF SOUTHERN CALIFORNIA	84377997	20	701	456,043	
					1,623,730	
	Passthrough/Partial Passthrough					
	BOOZ ALLEN HAMILTON INC.	106258SB44 TO 2	20	762	8,940	
	BOOZ ALLEN HAMILTON INC.	108679SB1M	20	762	129,838	
					138,778	
	Direct					
	DEPARTMENT OF TRANSPORT	VARIOUS	20	RD	3,838,970	1,358,417
	Passthrough/Partial Passthrough					
	LEIDOS, INC.	009139	20	RD	113,405	
	UNIVERSITY OF ILLINOIS	20150068103	20	RD	5,975	
	UNIVERSITY OF MARYLAND	31673-Z9825002	20	RD	22,838	
	UNIVERSITY OF SOUTHERN CALIFORNIA	84380215	20	RD	150,338	
	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION	GCB1359	20	RD	66,166	
	CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION	65A0540	20	RD	171,091	
	CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION	65A0556	20	RD	62,830	
	CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION	65A0594	20	RD	141,889	
	CALTRANS DIVISION OF RESEARCH, INNOVATION AND SYSTEM INFORMATION	65A0542	20	RD	629,389	91,883
	CALTRANS DIVISION OF RESEARCH, INNOVATION AND SYSTEM INFORMATION	65A0562	20	RD	363,059	
	CALTRANS DIVISION OF RESEARCH, INNOVATION AND SYSTEM INFORMATION	65A0563	20	RD	83,684	
					5,649,634	1,450,300
DEPARTMENT OF TRANSPORT Total					9,928,141	2,707,459
NATIONAL AERONAUTICS & SPACE ADMINISTRATION						
	Passthrough/Partial Passthrough					
	AEROSPACE CORPORATION	4600005842	43	001	65,375	
	ARIZONA STATE UNIVERSITY/TEMPE	17-176	43	001	67,439	
	ARIZONA STATE UNIVERSITY/TEMPE	A17-0383-001	43	001	13,056	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	58345	43	001	7,122	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	86421	43	001	117,062	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A00-0010-012	43	001	24,196	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A15-0078-001	43	001	5,909	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A15-0102-001	43	001	32,407	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A15-0184-002	43	001	19,848	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A15-0234-002	43	001	2,572	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A15-0235-002	43	001	16,696	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A15-0242-002	43	001	17,041	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A15-0250-002	43	001	79,832	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A15-0256-002	43	001	32,482	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0226-001	43	001	11,298	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0319-001	43	001	-15,468	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0353-001	43	001	38,920	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0354-001	43	001	21,261	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0355-001	43	001	5,664	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0361-001	43	001	3,840	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0419-001	43	001	84,831	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0511-001	43	001	5,443	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0419-001	43	001	91,519	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0420-001	43	001	79,279	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0530-001	43	001	42,488	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0531-001	43	001	76,162	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0545-001	43	001	21,755	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0782-001	43	001	5,134	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0783-001	43	001	1,711	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST.AR.14280.004A	43	001	28,751	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-13883.008-A	43	001	48,861	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-14307.001-A	43	001	36,330	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-12914.04-A-CYC3	43	001	83	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13459.017-A	43	001	136,044	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13732.004-A	43	001	2,048	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13758.002-A	43	001	6,823	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13767.009-A	43	001	59,084	

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NATIONAL AERONAUTICS & SPACE ADMINISTRATION	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13826.017-A	43	001	18,305	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13846.005-A	43	001	63	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13866.001-A	43	001	64	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14045.001-A	43	001	1,592	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14178.001-A	43	001	-8,676	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14191.008-A	43	001	33,794	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14208.002-A	43	001	11,721	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14254.001-A	43	001	73,329	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14458.001-A	43	001	26,410	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14498.001-A	43	001	14,870	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14528.003-A	43	001	18,640	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-HF2-51353.001-A	43	001	22,528	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-HF2-51379.001-A-CYC1	43	001	107,493	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	SUB NONE (HST-GO-14241.005-F	43	001	4,969	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	SUB NONE (HSG-GO-14130.001-A	43	001	29,699	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	58305	43	001	1	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	58357	43	001	21,696	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	58361	43	001	-7	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	58365	43	001	5,049	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	58399	43	001	10,216	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	79558	43	001	-978	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A00-0029-006	43	001	43,077	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A15-0198-001	43	001	44,457	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A15-0270-001	43	001	16,673	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A15-0274-001	43	001	112,280	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0357-001	43	001	3,128	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0358-001	43	001	1,777	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0359-001	43	001	13,107	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0360-001	43	001	7,410	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0510-001	43	001	4,352	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0568-001	43	001	12,995	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A16-0570-001	43	001	34,005	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0494-001	43	001	103,713	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0495-001	43	001	28,606	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0533-001	43	001	13,552	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0538-001	43	001	13,361	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0547-001	43	001	5,736	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0548-001	43	001	52,968	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0563-001	43	001	5,802	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0564-001	43	001	8,366	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0565-001	43	001	3,369	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0818-001	43	001	9,165	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0884-001	43	001	25,000	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0926-001	43	001	25,505	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A18-0595-001	43	001	43,370	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A18-0610-001	43	001	38,513	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A18-0623-001	43	001	2,399	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A18-0628-001	43	001	2,256	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A18-0630-001	43	001	26,377	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-14295.001-A	43	001	37,577	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-14554.001-A-CYC1	43	001	11,478	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-12889.013-A:2	43	001	-28	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13612.001-A:1	43	001	13,823	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13716.010-A	43	001	12,209	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13768.024-A	43	001	4,906	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13864.001-A	43	001	14,279	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14091.001-A-CYC1	43	001	26,889	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14149.001-A	43	001	66,147	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14197.002-A	43	001	19,045	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14610.015-A	43	001	14,790	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14630.002-A	43	001	33,870	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14668.001-A	43	001	31,774	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14701.002-A	43	001	13,238	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14711.001-A	43	001	65,304	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14725.003-A	43	001	18,048	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14744.002-A-CYC1	43	001	510	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14770.004-A-CYC1	43	001	2,115	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14839.001-A	43	001	39,929	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14864.002-A	43	001	8,570	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14872.003-A	43	001	21,653	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14884.002-A	43	001	9,871	

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NATIONAL AERONAUTICS & SPACE ADMINISTRATION	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14920.001-A-CYC1	43	001	3,752	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14939.001-A	43	001	6,570	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-15115.002-A	43	001	1,000	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-15124.001-A-CYC1	43	001	11,589	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-15177.008-A	43	001	2,863	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-15199.001-A	43	001	19,975	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-15287.001-A	43	001	29,703	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-15320.001-A	43	001	21,658	
	ATAC	10-1616-UCB	43	001	111,575	
	BERMUDA INSTITUTE OF OCEAN SCIENCES	154444UCSB	43	001	58,054	
	BIGELOW LABORATORY FOR OCEAN SCIENCES	BLOS 17-001	43	001	52,861	
	BOSTON UNIVERSITY	4500001963	43	001	30,098	
	CALIFORNIA INSTITUTE OF TECHNOLOGY	65L-1097809	43	001	117,011	
	CALIFORNIA INSTITUTE OF TECHNOLOGY	44E-1097276-CYC2	43	001	56,829	
	CALIFORNIA STATE UNIVERSITY, SAN JOSE STATE UNIVERSITY FOUNDATION	008690	43	001	35,935	
	CATHOLIC UNIVERSITY OF AMERICA, THE	361207 - SUB 1	43	001	72,503	
	CENTER FOR THE ADVANCEMENT OF SCIENCE IN SPACE INC	GA-2014-154	43	001	65,892	
	CENTRAL WASHINGTON UNIVERSITY	22465-1	43	001	1,620	
	CONSORTIUM FOR OCEAN LEADERSHIP	SA 16-33	43	001	76,569	
	DARTMOUTH COLLEGE	59894	43	001	3,403	
	DESERT RESEARCH INSTITUTE	656.7206	43	001	48,355	
	EARTH AND SPACE RESEARCH	ESR-2016-224-UCSD	43	001	76,025	
	GEORGIA INSTITUTE OF TECHNOLOGY	RG176-G1-CYC1	43	001	97,484	
	GEORGIA INSTITUTE OF TECHNOLOGY	RJ249-G2	43	001	63,589	
	HARVARD UNIVERSITY	130812-5096205	43	001	96,642	
	INSTITUTE FOR SYSTEMS BIOLOGY	81708	43	001	556,410	
	JET PROPULSION LABORATORY	1401886:008	43	001	70,118	
	JET PROPULSION LABORATORY	1409806:017	43	001	129,128	
	JET PROPULSION LABORATORY	1409809:025	43	001	428,609	
	JET PROPULSION LABORATORY	1446040:007	43	001	21,127	
	JET PROPULSION LABORATORY	1508617	43	001	-42	
	JET PROPULSION LABORATORY	1512986:002	43	001	332,678	
	JET PROPULSION LABORATORY	1516625	43	001	94,743	
	JET PROPULSION LABORATORY	1522155	43	001	94,926	
	JET PROPULSION LABORATORY	1524322-CYC1	43	001	35,598	
	JET PROPULSION LABORATORY	1525520	43	001	34,837	
	JET PROPULSION LABORATORY	1526267	43	001	10,681	
	JET PROPULSION LABORATORY	1526530	43	001	123,017	
	JET PROPULSION LABORATORY	1531879	43	001	-4,162	
	JET PROPULSION LABORATORY	1536981	43	001	72,616	
	JET PROPULSION LABORATORY	1548805	43	001	-2,351	
	JET PROPULSION LABORATORY	1552843	43	001	43,350	
	JET PROPULSION LABORATORY	1554759	43	001	46,555	
	JET PROPULSION LABORATORY	1555910	43	001	87,599	
	JET PROPULSION LABORATORY	1556185	43	001	50,829	
	JET PROPULSION LABORATORY	1556303-CYC1	43	001	39,626	
	JET PROPULSION LABORATORY	1557709	43	001	92,212	
	JET PROPULSION LABORATORY	1558785-CYC1	43	001	18,945	
	JET PROPULSION LABORATORY	1559252	43	001	115,400	
	JET PROPULSION LABORATORY	1561043	43	001	9,468	
	JET PROPULSION LABORATORY	1561131:01	43	001	3,970	
	JET PROPULSION LABORATORY	1561322	43	001	123,225	
	JET PROPULSION LABORATORY	1561663	43	001	-3,360	
	JET PROPULSION LABORATORY	1562552	43	001	4,619	
	JET PROPULSION LABORATORY	1564158	43	001	86,801	
	JET PROPULSION LABORATORY	1564202	43	001	4,666	
	JET PROPULSION LABORATORY	1564598	43	001	48,156	
	JET PROPULSION LABORATORY	1564910	43	001	34,112	
JET PROPULSION LABORATORY	1565047	43	001	29,091		
JET PROPULSION LABORATORY	1565110-CYC1	43	001	22,661		
JET PROPULSION LABORATORY	1565339	43	001	33,770		
JET PROPULSION LABORATORY	1565521	43	001	-2,569		
JET PROPULSION LABORATORY	1565523	43	001	49,502		
JET PROPULSION LABORATORY	1565887	43	001	2,638		
JET PROPULSION LABORATORY	1567344	43	001	3,356		
JET PROPULSION LABORATORY	1567551	43	001	306,671		
JET PROPULSION LABORATORY	1569162	43	001	139,266		
JET PROPULSION LABORATORY	1570200:003	43	001	145,659		
JET PROPULSION LABORATORY	1570861	43	001	70,566		
JET PROPULSION LABORATORY	1571562	43	001	962		
JET PROPULSION LABORATORY	009159	43	001	13,991		

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			Prefix	Extension		
NATIONAL AERONAUTICS & SPACE ADMINISTRATION	JET PROPULSION LABORATORY	009279	43	001	63,746	
	JET PROPULSION LABORATORY	009800	43	001	3,681	
	JET PROPULSION LABORATORY	1490248:005	43	001	100,320	
	JET PROPULSION LABORATORY	1521593:002	43	001	208,130	8,720
	JET PROPULSION LABORATORY	1523995:003	43	001	173,740	
	JET PROPULSION LABORATORY	1531424:002	43	001	13,387	
	JET PROPULSION LABORATORY	1532733:006	43	001	73,848	
	JET PROPULSION LABORATORY	1533870:001	43	001	172,126	
	JET PROPULSION LABORATORY	1537426:006	43	001	570,643	
	JET PROPULSION LABORATORY	1558329-CYC2	43	001	69,091	
	JET PROPULSION LABORATORY	1560037:002	43	001	11,411	
	JET PROPULSION LABORATORY	1563122-CYC1	43	001	29,500	
	JET PROPULSION LABORATORY	1565346	43	001	47,910	
	JET PROPULSION LABORATORY	1568877	43	001	78,736	
	JET PROPULSION LABORATORY	1568910	43	001	12,939	
	JET PROPULSION LABORATORY	1572480-CYC1	43	001	13,754	
	JET PROPULSION LABORATORY	1572667	43	001	39,231	
	JET PROPULSION LABORATORY	1583032-CYC1	43	001	8,199	
	JET PROPULSION LABORATORY	1586488-CYC2	43	001	64,968	
	JET PROPULSION LABORATORY	1588498	43	001	51,101	
	JET PROPULSION LABORATORY	1589110	43	001	39,910	
	JET PROPULSION LABORATORY	1592619-CYC1	43	001	15,875	
	JET PROPULSION LABORATORY	1595805-CYC1	43	001	4,993	
	JET PROPULSION LABORATORY	1596784	43	001	2,480	
	JET PROPULSION LABORATORY	1599015	43	001	9,095	
	JET PROPULSION LABORATORY	79216	43	001	-2,009	
	JET PROPULSION LABORATORY	85296	43	001	381	
	JET PROPULSION LABORATORY	86138	43	001	10,171	
	JET PROPULSION LABORATORY	86201	43	001	-1,536	
	JET PROPULSION LABORATORY	86432	43	001	49,812	
	JET PROPULSION LABORATORY	SUB 1582765 (NNN12AA01C)	43	001	21,829	
	JET PROPULSION LABORATORY	SUB 1583135 (NONE)	43	001	974	
	JET PROPULSION LABORATORY	SUB 1597973 (NONE)	43	001	20,445	
	JET PROPULSION LABORATORY	1568947	43	001	58,646	
	JET PROPULSION LABORATORY	1584157	43	001	46,001	
	JET PROPULSION LABORATORY	1584427	43	001	29,012	
	JET PROPULSION LABORATORY	1584449	43	001	149,356	
	JOHNS HOPKINS UNIVERSITY	132224:6	43	001	39,218	
	LOS ALAMOS NATIONAL SECURITY, LLC	424098	43	001	15,353	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003371:7	43	001	16,712	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003374	43	001	51,376	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SUB 5710003786 (NNA14AB01A)	43	001	2,125	
	METRON AVIATION, INC.	UCB-0001-96C-N132	43	001	57,397	
	MONTANA STATE UNIVERSITY	A16-0520-002	43	001	22,417	
	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	A17-0665-001	43	001	26,933	
	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES	X13-7143-UCLA:6	43	001	2,818	
	OHIO STATE UNIVERSITY	60057395	43	001	44,997	
	OHIO STATE UNIVERSITY	SUB 60050483 (NNX16AF48G)	43	001	55,482	
	OREGON STATE UNIVERSITY	NS278A-B:2	43	001	73,706	
	PLANETARY SCIENCE INSTITUTE	1492	43	001	48,175	
	PLANETARY SCIENCE INSTITUTE	A17-0402-001	43	001	68,198	
	PRINCETON UNIVERSITY	SUB0000139:2	43	001	45,710	
	SOUTHWEST RESEARCH INSTITUTE	H99068CO	43	001	38,739	
	SOUTHWEST RESEARCH INSTITUTE	699046X17	43	001	73,450	
	SOUTHWEST RESEARCH INSTITUTE	86227	43	001	-6	
	STANFORD UNIVERSITY	A17-0621-001	43	001	63,118	
	TEXAS A&M UNIVERSITY - COLLEGE STATION	16-02:1	43	001	7,884	
	THE UNIVERSITY OF ALABAMA (TUSCALOOSA)	A00-513-S001	43	001	169,679	
	THE WOODS HOLE RESEARCH CENTER INC	WHRC-ZG0827-01-CYC3	43	001	35,797	
	U.S.-ISRAEL BINATIONAL SCIENCE FOUNDATION	2012304	43	001	17,419	
	UNIVERSITIES SPACE RESEARCH ASSOCIATION	09959-02	43	001	1,951	
	UNIVERSITIES SPACE RESEARCH ASSOCIATION	GRANTSOF04-0060	43	001	7	
	UNIVERSITIES SPACE RESEARCH ASSOCIATION	02274-01	43	001	33,668	
	UNIVERSITIES SPACE RESEARCH ASSOCIATION	SOF 05-00COORAY-CYC2	43	001	18,123	
	UNIVERSITY OF ARIZONA	20163391	43	001	13,504	
	UNIVERSITY OF ARIZONA	A16-0345-002	43	001	27,232	
	UNIVERSITY OF COLORADO BOULDER	1554485-1000818335	43	001	10,638	
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	1546525:1	43	001	184,637	40,805
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	1552631:3	43	001	122,591	
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	1554053:1	43	001	20,869	
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	1556287	43	001	14,310	

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients	
NATIONAL AERONAUTICS & SPACE ADMINISTRATION	UNIVERSITY OF DELAWARE	40042	43	001	16,790		
	UNIVERSITY OF DELAWARE	42385	43	001	75,787		
	UNIVERSITY OF DELAWARE	85813	43	001	46,546		
	UNIVERSITY OF DELAWARE	A15-0179-004	43	001	91,300		
	UNIVERSITY OF FLORIDA	UFDSP00011825	43	001	18,617		
	UNIVERSITY OF ILLINOIS	63605	43	001	36,656	24,776	
	UNIVERSITY OF IOWA	1001515160	43	001	358,614		
	UNIVERSITY OF IOWA	1001652308:01	43	001	3,283		
	UNIVERSITY OF IOWA	1001745125	43	001	154,774		
	UNIVERSITY OF MAINE SYSTEM	UM-S966	43	001	16,174		
	UNIVERSITY OF MAINE SYSTEM	UMS-1062	43	001	13,300		
	UNIVERSITY OF MARYLAND	16311-Z6905001:A	43	001	6,229		
	UNIVERSITY OF MARYLAND	2510-Z681002:D	43	001	11,332		
	UNIVERSITY OF MARYLAND	SUB Z680501 (NNX13AH67G)	43	001	3,821		
	UNIVERSITY OF MARYLAND	54296-Z6059207	43	001	76,475		
	UNIVERSITY OF MARYLAND	A16-0050-002	43	001	25,696		
	UNIVERSITY OF MASSACHUSETTS AMHERST	B000558518	43	001	9,925		
	UNIVERSITY OF MASSACHUSETTS SYSTEM	B000295279	43	001	167,563		
	UNIVERSITY OF MICHIGAN	3004569434	43	001	25,797		
	UNIVERSITY OF MINNESOTA	A005276801	43	001	259,305		
	UNIVERSITY OF MINNESOTA	A005821701	43	001	693,962		
	UNIVERSITY OF MINNESOTA	A006148301	43	001	7,908		
	UNIVERSITY OF MINNESOTA	A006153701	43	001	119,271		
	UNIVERSITY OF MONTANA	PG15-26841-01-CYC3	43	001	17,410		
	UNIVERSITY OF NEW HAMPSHIRE	17-001	43	001	7,596		
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5100754-2	43	001	50,288		
	UNIVERSITY OF NORTH DAKOTA	10162-18240	43	001	2,376		
	UNIVERSITY OF TEXAS-AUSTIN	A16-0314-001	43	001	17,078		
	UNIVERSITY OF TEXAS-AUSTIN	UTA16-000861	43	001	90,545		
	UNIVERSITY OF TEXAS-AUSTIN	A17-0561-002	43	001	24,680		
	UNIVERSITY OF TEXAS-AUSTIN	UTA15-000804:1	43	001	15,372		
	UNIVERSITY OF WASHINGTON	764017	43	001	22,377		
	UNIVERSITY OF WASHINGTON	UWSC9226_BPO16911	43	001	5,334		
	UNIVERSITY OF WASHINGTON	UWSC9264	43	001	13,206		
	UNIVERSITY OF WISCONSIN-MADISON	545K204:3	43	001	61,251		
	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	426670-19B03	43	001	71,840		
	WEST VIRGINIA UNIVERSITY	15-920-UCB	43	001	44,013		
	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A101349	43	001	16,020		
	WYLE LABORATORIES	T72556	43	001	266,174		
	HAMPTON UNIVERSITY	HU-170003	43	001	27,415		
	SOUTH 8 TECHNOLOGIES, INC.	SUB 20172527(NNX17CP67P)	43	001	37,498		
	SYSTEM SCIENCE APPLICATIONS INC.	SSA-001	43	001	70,610		
	UNIVERSITY OF HASSELT	80NSSC17K0056	43	001	19,818		
	UNIVERSITY OF HAWAII SYSTEM	MA1306	43	001	8,601		
	UNIVERSITY OF MASSACHUSETTS LOWELL	S52000000027333	43	001	317,148		
					14,764,295	74,301	
		Passthrough/Partial Passthrough					
		ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-14282.001-A-CYC1	43	002	14,447	
		ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14199.006-A	43	002	1,855	
		ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14083.002-A-CYC2	43	002	8,497	
		CALIFORNIA INSTITUTE OF TECHNOLOGY	44A-1085101	43	002	743,946	
		GEORGIA TECH RESEARCH CORPORATION	SUB RG183-G1 (NNX15AU22A)	43	002	88,367	
		JET PROPULSION LABORATORY	1528152-CYC1	43	002	328,456	52,273
		NATIONAL SPACE BIOMEDICAL RESEARCH INSTITUTE	874AA	43	002	-705	
		UNIVERSITIES SPACE RESEARCH ASSOCIATION	SUB 05-0047 (NAS2-97001)	43	002	22,115	
					1,206,978	52,273	
		Passthrough/Partial Passthrough					
		BAYLOR COLLEGE OF MEDICINE	7000000516	43	003	15,792	
		BAYLOR COLLEGE OF MEDICINE	NNX16A069A	43	003	126,804	
		SOUTHWEST RESEARCH INSTITUTE	J99018CP	43	003	2,640	
		UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	1555630:1	43	003	14,142	
				159,378			
	Passthrough/Partial Passthrough						
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-13907.001-A	43	007	14,532		
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13677.001-A	43	007	124,705		
	PRINCETON PLASMA PHYSICS LABORATORY	S014279-H	43	007	7,355		
	AMERICAN COLLEGE OF SPORTS MEDICINE	20173116	43	007	7,287		
	TEXAS HEART INSTITUTE	NNX15AB55G	43	007	522,273		

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			Prefix	Extension	Federal Expenditures	
NATIONAL AERONAUTICS & SPACE ADMINISTRATION					676,152	
	Passthrough/Partial Passthrough					
	AERO INSTITUTE	D-13-IFS-014	43	008	19,364	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-14289.001-A-CYC1	43	008	26,023	
	CAL STATE L.A. UNIVERSITY AUXILIARY SERVICES, INC. (UAS)	UC1231210-CYC2	43	008	306,443	
	CSU, SONOMA STATE UNIVERSITY	SUB 115642 (NNX16A181A)	43	008	4,010	
					355,840	
	Direct					
	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	VARIOUS	43	RD	84,094,613	14,842,834
	Passthrough/Partial Passthrough					
	ANGSTROM DESIGNS ENGRG SERVS	NASA STTR UCSB 091714-UCSB02	43	RD	18,706	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	005647	43	RD	546	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	007253	43	RD	6,572	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	007272	43	RD	2,975	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	007393	43	RD	12,035	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	007999	43	RD	14,155	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	008000	43	RD	3,821	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	008174	43	RD	62,108	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	008183	43	RD	17,555	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	008659	43	RD	55,788	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	008660	43	RD	101,478	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0539-001	43	RD	45,977	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-13886.001-A-CYC1	43	RD	19,069	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-13888.003-A-CYC1	43	RD	27,311	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-14280.001-A	43	RD	46,780	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HSTGO1289801A	43	RD	377	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13643.001-A	43	RD	686	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO13659.001-A	43	RD	9,250	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HSTGO13661002A	43	RD	9,614	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13700.001-A	43	RD	14,433	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13718.002-A-CYC1	43	RD	6,463	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13748.002-A	43	RD	23,267	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13776.001-A	43	RD	19,057	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13777.001-A	43	RD	11,041	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13797.001-A	43	RD	1,421	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13937.003-A	43	RD	9,565	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14096.007-A	43	RD	41,765	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HSTGO14254004A	43	RD	9,012	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HSTGO14456003A	43	RD	3,115	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14492.001-A	43	RD	48,642	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14661.001-A	43	RD	104,361	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14754.001-A	43	RD	68,566	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-HF2-51359.002-A	43	RD	-2,151	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-HF2-51363.001-A	43	RD	80,378	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-HF2-51376.001-A	43	RD	27,934	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	SUB HST-GO-14606.001-A (NAS5-	43	RD	5,680	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	007210	43	RD	2,390	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	007278	43	RD	24,714	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	007575	43	RD	12,050	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	008405	43	RD	10,817	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	008818	43	RD	4,734	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	008959	43	RD	60,374	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	009043	43	RD	6,437	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	58340	43	RD	15,922	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-15024.001-A	43	RD	14,062	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-15057.001	43	RD	15,022	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13662.001-A-CYC1	43	RD	39,240	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13666.001-A	43	RD	29,982	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14118-002	43	RD	13,734	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14734.016-A	43	RD	51,841	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14925.007-A	43	RD	9,911	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-15077.001-A	43	RD	15,022	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-15170.001-A	43	RD	22,059	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-15320.005-A	43	RD	7,814	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-HF2-51395.001-A	43	RD	73,911	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	SUB HST-GO-15275.008-A (NAS5-	43	RD	12,940	
	ATA ENGINEERING, INC.	66316-100-CYC1	43	RD	37,406	
	CATHOLIC UNIVERSITY OF AMERICA, THE	362486	43	RD	23,030	
	CRAMER FISH SCIENCES	201703205	43	RD	2,675	

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			Prefix	Extension		
NATIONAL AERONAUTICS & SPACE ADMINISTRATION	JET PROPULSION LABORATORY	008974	43	RD	83,649	
	JET PROPULSION LABORATORY	1356389	43	RD	138,872	
	JET PROPULSION LABORATORY	1424022	43	RD	272,106	
	JET PROPULSION LABORATORY	1492976	43	RD	13,994	
	JET PROPULSION LABORATORY	1533766	43	RD	89,092	10,911
	JET PROPULSION LABORATORY	1538071	43	RD	8,087	
	JET PROPULSION LABORATORY	1547000	43	RD	35,245	
	JET PROPULSION LABORATORY	1554065	43	RD	12,861	
	JET PROPULSION LABORATORY	1557778	43	RD	43,296	
	JET PROPULSION LABORATORY	1557798	43	RD	45,434	
	JET PROPULSION LABORATORY	1558252	43	RD	67,139	
	JET PROPULSION LABORATORY	1560329	43	RD	203	
	JET PROPULSION LABORATORY	1561962	43	RD	60,188	
	JET PROPULSION LABORATORY	1562208	43	RD	262,518	
	JET PROPULSION LABORATORY	1563911	43	RD	4,817	
	JET PROPULSION LABORATORY	1563990	43	RD	27,011	
	JET PROPULSION LABORATORY	1564273	43	RD	3,780	
	JET PROPULSION LABORATORY	1568167	43	RD	32,336	
	JET PROPULSION LABORATORY	1570407	43	RD	142,769	
	JET PROPULSION LABORATORY	1570448	43	RD	122,315	
	JET PROPULSION LABORATORY	1573042	43	RD	135,516	
	JET PROPULSION LABORATORY	78529	43	RD	9,291	
	JET PROPULSION LABORATORY	A15-0098-001	43	RD	15,694	
	JET PROPULSION LABORATORY	A16-0081-001	43	RD	66,215	
	JET PROPULSION LABORATORY	A16-0228-001	43	RD	13,973	
	JET PROPULSION LABORATORY	A16-0609-001	43	RD	16	
	JET PROPULSION LABORATORY	A16-0615-001	43	RD	1,976	
	JET PROPULSION LABORATORY	RSA NO. 1519406	43	RD	11,615	
	JET PROPULSION LABORATORY	SUB 1450442 (NM07100956)	43	RD	8,730	
	JET PROPULSION LABORATORY	SUB 1542954 (NNN12AA01C)	43	RD	20,899	
	JET PROPULSION LABORATORY	SUB 1563698(NONE)	43	RD	20,447	
	JET PROPULSION LABORATORY	1521597	43	RD	70,391	
	JET PROPULSION LABORATORY	1587062-CYC1	43	RD	42,612	
	JET PROPULSION LABORATORY	59358	43	RD	7	
	JET PROPULSION LABORATORY	89069	43	RD	-425	
	JET PROPULSION LABORATORY	11588413:001	43	RD	8,812	
	JET PROPULSION LABORATORY	1385250:014	43	RD	74,776	
	JET PROPULSION LABORATORY	1542315:002	43	RD	51,979	
	JET PROPULSION LABORATORY	1551859:002	43	RD	135,812	
	JET PROPULSION LABORATORY	1556392:002	43	RD	8,084	
	JET PROPULSION LABORATORY	1561210	43	RD	24,425	
	JET PROPULSION LABORATORY	1575163	43	RD	16,527	
	JET PROPULSION LABORATORY	1576352	43	RD	36,406	
	JET PROPULSION LABORATORY	1576353	43	RD	127,654	
	JET PROPULSION LABORATORY	1576945	43	RD	2,267	
	JET PROPULSION LABORATORY	1578100	43	RD	5,608	
	JET PROPULSION LABORATORY	1578669:001	43	RD	349,926	
	JET PROPULSION LABORATORY	1580267:001	43	RD	31,809	
	JET PROPULSION LABORATORY	1580409	43	RD	7,852	
	JET PROPULSION LABORATORY	1581189	43	RD	57,638	
JET PROPULSION LABORATORY	1581439	43	RD	80,277		
JET PROPULSION LABORATORY	1584220	43	RD	10,000		
JET PROPULSION LABORATORY	1585610	43	RD	121,082		
JET PROPULSION LABORATORY	1586032	43	RD	49,261		
JET PROPULSION LABORATORY	1587032	43	RD	83,898		
JET PROPULSION LABORATORY	1587173	43	RD	39,596		
JET PROPULSION LABORATORY	1587256	43	RD	63,099		
JET PROPULSION LABORATORY	1587312	43	RD	6,822		
JET PROPULSION LABORATORY	1587430	43	RD	5,870		
JET PROPULSION LABORATORY	1587490	43	RD	34,045		
JET PROPULSION LABORATORY	1587631	43	RD	47,088		
JET PROPULSION LABORATORY	1587992	43	RD	74,728		
JET PROPULSION LABORATORY	1589490	43	RD	18,519		
JET PROPULSION LABORATORY	1589511	43	RD	10,617		
JET PROPULSION LABORATORY	1590154	43	RD	87,671		
JET PROPULSION LABORATORY	1590158	43	RD	54,603		
JET PROPULSION LABORATORY	1590202	43	RD	18,284		
JET PROPULSION LABORATORY	1591172	43	RD	10,416		
JET PROPULSION LABORATORY	1592509	43	RD	65,299		
JET PROPULSION LABORATORY	1592623	43	RD	22,427		
JET PROPULSION LABORATORY	1593244	43	RD	48,144		

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
NATIONAL AERONAUTICS & SPACE ADMINISTRATION	JET PROPULSION LABORATORY	1594502	43	RD	30,495	
	JET PROPULSION LABORATORY	1594653	43	RD	91,110	
	JET PROPULSION LABORATORY	1595663	43	RD	19,820	
	JET PROPULSION LABORATORY	1596092	43	RD	29,729	
	JET PROPULSION LABORATORY	1601851	43	RD	3,309	
	JET PROPULSION LABORATORY	1605992	43	RD	1,258	
	JET PROPULSION LABORATORY	57144	43	RD	31,016	
	JET PROPULSION LABORATORY	57566	43	RD	1,089	
	JET PROPULSION LABORATORY	57577	43	RD	25,604	
	JET PROPULSION LABORATORY	63478	43	RD	40,395	
	JET PROPULSION LABORATORY	77803	43	RD	10,000	
	JET PROPULSION LABORATORY	SUB1588114 (NONE)	43	RD	44,447	
	JET PROPULSION LABORATORY	1586260	43	RD	55,310	
	JET PROPULSION LABORATORY	1587840	43	RD	11,386	
	JET PROPULSION LABORATORY	1591586	43	RD	15,975	
	JET PROPULSION LABORATORY	1595546	43	RD	50,000	
	JET PROPULSION LABORATORY	1599746	43	RD	14,918	
	JOHNS HOPKINS UNIVERSITY	975268	43	RD	3,875,759	994,772
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B621545	43	RD	23,185	
	MALIN SPACE SCIENCE SYSTEMS	12-0256	43	RD	69,036	
	OEWAVES	NNX17CC66P	43	RD	59,935	
	PHYSICAL SCIENCES INC.	67872-6606-46	43	RD	13,448	
	ROCHESTER INSTITUTE OF TECHNOLOGY	31264-01:7	43	RD	6,306	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	009036	43	RD	8,990	
	SOUTHWEST RESEARCH INSTITUTE	D99005L	43	RD	119,930	
	STANFORD UNIVERSITY	A00-1350-017	43	RD	94,712	
	UNIVERSITY OF ARIZONA	A16-0449-002	43	RD	30,554	
	UNIVERSITY OF ARIZONA	A16-0505-002	43	RD	80,023	
	UNIVERSITY OF COLORADO BOULDER	1000013136	43	RD	1,803,822	
	UNIVERSITY OF COLORADO BOULDER	1000023229	43	RD	37,220	
	UNIVERSITY OF COLORADO BOULDER	1000144280	43	RD	207,038	
	UNIVERSITY OF ILLINOIS	NNA13AA91A	43	RD	58,752	
	UNIVERSITY OF NEW HAMPSHIRE	14-081	43	RD	36,808	
	UNIVERSITY OF WISCONSIN-MADISON	SUB 769K985 (NAS2-97001)	43	RD	63,755	
	WAKE FOREST UNIVERSITY	WFUHS 113809	43	RD	15,896	
	WYLE LABORATORIES	SUB PO T72614 (NNX14AN75G)	43	RD	49,946	
					96,433,018	15,848,517
	NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total				113,595,661	15,975,091
	NATIONAL FOUNDATION ARTS & HUMANITIES	Passthrough/Partial Passthrough				
		CALIFORNIA HUMANITIES	COS15-470	45	129	765
	CALIFORNIA HUMANITIES	HFAQ12-13	45	129	5,065	
	CALIFORNIA HUMANITIES	HFAQ17-45	45	129	4,574	
					10,404	
	Passthrough/Partial Passthrough					
	CARNEGIE MELLON UNIVERSITY	1080400-395143	45	169	13,015	
					13,015	
	Passthrough/Partial Passthrough					
	CALIFORNIA STATE LIBRARY	009238	45	310	209,534	
					209,534	
	Passthrough/Partial Passthrough					
	INDIANA UNIVERSITY BLOOMINGTON	BL-4348803-UCB	45	312	7,114	
					7,114	
	Direct					
	INSTITUTE OF MUSEUM AND LIBRARY SERVICES	VARIOUS	45	RD	672,823	120,050
	NATIONAL FOUNDATION ARTS & HUMANITIES	VARIOUS	45	RD	1,833,549	40,552
	NATIONAL FOUNDATION ARTS & HUMANITIES	VARIOUS	45	RD	55,965	
					2,562,337	160,602
NATIONAL FOUNDATION ARTS & HUMANITIES Total				2,802,404	160,602	
NATIONAL SCIENCE FOUNDATION	Passthrough/Partial Passthrough					
	AMERICAN PHYSICAL SOCIETY	CWC-012	47	041	-10,850	
	ARIZONA STATE UNIVERSITY/TEMPE	15742	47	041	710,582	
	ARIZONA STATE UNIVERSITY/TEMPE	17-026	47	041	26,305	
	ARIZONA STATE UNIVERSITY/TEMPE	17-217	47	041	81,464	
	BIOINSPIRA, INC.	042894	47	041	105,116	
	CALWAVE POWER TECHNOLOGIES, INC.	042560	47	041	79,252	

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			Prefix	Extension			
NATIONAL SCIENCE FOUNDATION	CARDIAC MOTION, LLC	201403401	47	041	261,787		
	CITY UNIVERSITY OF NEW YORK	40E48-A	47	041	36,611		
	CLEMSON UNIVERSITY RESEARCH FOUNDATION	SUB 1649-206-2009147 (CMMI-12)	47	041	23,014		
	COLORADO STATE UNIVERSITY	007837	47	041	36,438		
	COLORADO STATE UNIVERSITY	G-00973-2	47	041	99,011		
	CORNELL UNIVERSITY	75855-10557	47	041	53,207		
	CORNELL UNIVERSITY	70369-10329:2	47	041	38,250		
	DASCENA, INC.	B8536	47	041	14		
	EMBR LABS INC.	20161719	47	041	47,016		
	GEORGIA INSTITUTE OF TECHNOLOGY	RG382-G1	47	041	101,784		
	INSTON, INC	59242	47	041	272		
	IOWA STATE UNIVERSITY	420-72-25-CYC14	47	041	328,455		
	JOHNS HOPKINS UNIVERSITY	SUB 2001929066 (ERFI-1332344)	47	041	74,678		
	KNOX MEDICAL DIAGNOSTICS INC	A127937	47	041	6,819		
	MENTOR ON THE GO, LLC	SUB 20164627 (1621825)	47	041	25,302		
	METAL FATIGUE SOLUTIONS, INC.	20162427	47	041	214		
	NANOELECTRONICS RESEARCH CORPORATION	SUB 2016-NE-2701 (ECCS-164017)	47	041	90,695	51,055	
	NORTHWESTERN UNIVERSITY	SPO032077-PROJ0008536	47	041	128,475		
	OREGON STATE UNIVERSITY	S1826A-A	47	041	22,347		
	PHASE DIAGNOSTICS, INC.	20170815	47	041	67,166		
	PURDUE UNIVERSITY	4101-51805	47	041	220,327		
	SAFELYOU INC.	042186	47	041	2,400		
	STANFORD UNIVERSITY	28139880-50542-C	47	041	662,177		
	STANFORD UNIVERSITY	60359058-108886-C	47	041	3,185		
	STANFORD UNIVERSITY	SUB 61174008-120872 (CBET-150)	47	041	44,499		
	STANFORD UNIVERSITY	61613955-124096	47	041	93,898		
	STANFORD UNIVERSITY	61621756-121587	47	041	26,196		
	SYRACUSE UNIVERSITY	1536542	47	041	3,270		
	TEXAS A&M UNIVERSITY - COLLEGE STATION	M1801370	47	041	271,448		
	TRITON ALGAE INNOVATIONS, LLC	874C3	47	041	69,504		
	UNIVERSITY OF ARIZONA	349548	47	041	59,963		
	UNIVERSITY OF ARIZONA	57564	47	041	-236		
	UNIVERSITY OF ARIZONA	SUB Y502629 (EEC-0812072)	47	041	373,476		
	UNIVERSITY OF ARIZONA	SUB 413309 (CMMI-1662816)	47	041	448		
	UNIVERSITY OF CENTRAL FLORIDA	UCF-105305-CYC3	47	041	12,646		
	UNIVERSITY OF IDAHO	FEK232-SB-001	47	041	83,538		
	UNIVERSITY OF ILLINOIS	2012-03500-02	47	041	36,561		
	UNIVERSITY OF ILLINOIS	2014-04512-01	47	041	76,607		
	UNIVERSITY OF ILLINOIS	087442-16581	47	041	41,075		
	UNIVERSITY OF MINNESOTA	58615	47	041	-149		
	UNIVERSITY OF PENNSYLVANIA	SUB 567084 (EFMA-1542879)	47	041	158,186		
	UNIVERSITY OF SOUTH CAROLINA	162918	47	041	4,469		
	UNIVERSITY OF SOUTHERN CALIFORNIA	58669052:3	47	041	33,085		
	UNIVERSITY OF SOUTHERN CALIFORNIA	96586107	47	041	54,299		
	UNIVERSITY OF TEXAS-AUSTIN	SUB UTA15-000855 (1520817)	47	041	21,257		
	UNIVERSITY OF TEXAS-AUSTIN	UTA12-000944	47	041	480,473		
	UNIVERSITY OF TEXAS-AUSTIN	UTA15-000860	47	041	28,969		
	VAULT NANO INC.	20173688	47	041	74,343		
	SOUTH 8 TECHNOLOGIES, INC.	SUB 20172104 (1721646)	47	041	53,270		
	MICROGRID LABS INC.	044145	47	041	54,452		
	HARVEY MUDD COLLEGE	1745970	47	041	2,266		
	NICHE BIOMEDICAL LLC	20165020	47	041	43,151		
	RHK TECHNOLOGY, INC.	1721926	47	041	47,255		
					5,569,732	51,055	
		Passthrough/Partial Passthrough					
		TEMPLE UNIVERSITY	96366	47	047	2,751	
		UNIVERSITY OF WASHINGTON	UWSC6735	47	047	76,592	
						79,343	
		Passthrough/Partial Passthrough					
		ASSOCIATED UNIVERSITIES, INC	SUB SOSPA4-006 (AST-1519126)	47	049	2,294	
		ASSOCIATED UNIVERSITIES, INC	353517	47	049	1,771	
		ASSOCIATED UNIVERSITIES, INC	SUB TBD (1519126)	47	049	6,749	
		ASSOCIATED UNIVERSITIES, INC	360180	47	049	3,497	
		ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A15-0131-002	47	049	-37,673	
		ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	N56981C	47	049	417,596	
		ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	A17-0909-001	47	049	88,340	
		BAYLOR UNIVERSITY	SUB 30240114-1 (1740203)	47	049	11,495	
		CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY	11934:5	47	049	25,075	
		CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY	13401:1	47	049	186,920	

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			Prefix	Extension	Federal Expenditures		
NATIONAL SCIENCE FOUNDATION	CALIFORNIA INSTITUTE OF TECHNOLOGY	44C-1092164	47	049	88,004		
	CALIFORNIA INSTITUTE OF TECHNOLOGY	68D1094593	47	049	141,774		
	CALIFORNIA INSTITUTE OF TECHNOLOGY	A17-0921-001	47	049	34,418		
	COLUMBIA UNIVERSITY	3(GG006897):5	47	049	29,173		
	COLUMBIA UNIVERSITY	78543	47	049	7		
	CORNELL UNIVERSITY	75548-10820	47	049	396,302		
	CORNELL UNIVERSITY	009069	47	049	5,871		
	CORNELL UNIVERSITY	78877-10862	47	049	61,993		
	EMORY UNIVERSITY	T662235:6	47	049	124,092		
	EMORY UNIVERSITY	T662187	47	049	-5,349		
	EMORY UNIVERSITY	T662192-CYC1	47	049	284		
	EMORY UNIVERSITY	T849705	47	049	60,821		
	EMORY UNIVERSITY	T849615	47	049	67,245		
	GEORGIA INSTITUTE OF TECHNOLOGY	RG173-G1	47	049	2,521		
	INDIANA UNIVERSITY	BL-4830927-UCSC	47	049	35,521		
	JACKSON STATE UNIVERSITY	633156-UCSB	47	049	59,278		
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003959	47	049	107,810		
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003976	47	049	123,560		
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710004001:2	47	049	86,696		
	NEVADA SYSTEM OF HIGHER EDUCATION	UNR 18-25	47	049	15,297		
	NORTHWESTERN UNIVERSITY	SUB SP0044956-PROJ0013413(DM)	47	049	66,114		
	OHIO STATE UNIVERSITY	60046614:04	47	049	69,622		
	OREGON STATE UNIVERSITY	S1412A-C	47	049	370		
	OREGON STATE UNIVERSITY	S1891A-D	47	049	73,896		
	OREGON STATE UNIVERSITY	S1891AE	47	049	16,172		
	OREGON STATE UNIVERSITY	009533	47	049	15,350		
	PENNSYLVANIA STATE UNIVERSITY	5148-UCB-NSF-0620	47	049	79,857		
	PENNSYLVANIA STATE UNIVERSITY	5182-UC-NSF-0620-CYC2	47	049	1,672		
	PRINCETON UNIVERSITY	SUB 0000182(PHY-1624356)	47	049	1,917,608		
	PRINCETON UNIVERSITY	SUB 00002010 (PHY-1120138)	47	049	-511,449		
	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	76749/1136652/2-CYC2	47	049	45,519		
	TEXAS A&M UNIVERSITY - COLLEGE STATION	28S172803	47	049	13,417		
	UNIVERSITY OF COLORADO BOULDER	1554565	47	049	891,244		
	UNIVERSITY OF COLORADO BOULDER	1554568-CYC1	47	049	75,134		
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	1554564	47	049	1,130,437		
	UNIVERSITY OF FLORIDA	UFDSP00011774	47	049	5,564		
	UNIVERSITY OF MARYLAND	A00-1404-006	47	049	171,131		
	UNIVERSITY OF MEMPHIS	A17-0593-001	47	049	30,287		
	UNIVERSITY OF MICHIGAN	3003700329	47	049	67,089		
	UNIVERSITY OF MICHIGAN	3003700330-CYC1	47	049	67,379		
	UNIVERSITY OF MINNESOTA	30919	47	049	23,968		
	UNIVERSITY OF MISSOURI	C00047906-1	47	049	67,696		
	UNIVERSITY OF SOUTHERN CALIFORNIA	78356329	47	049	18,993		
	UNIVERSITY OF TEXAS-EL PASO	226100829B	47	049	54,957		
	UNIVERSITY OF UTAH	10030555	47	049	13,821		
	UNIVERSITY OF WASHINGTON	UWSC9674	47	049	139,269		
	UNIVERSITY OF WISCONSIN-MADISON	726K305-CYC1	47	049	28,142		
	UNIVERSITY OF WISCONSIN-MADISON	SUB 408K133 (PHY-1148698)	47	049	464,018		
	UNIVERSITY OF WISCONSIN-MADISON	776K193	47	049	31,576		
	WEST VIRGINIA UNIVERSITY	A17-0637-001	47	049	122,629		
	UNIVERSITY OF NEBRASKA-LINCOLN	UNL-209765-CYC1	47	049	1,330		
	W. M. KECK FOUNDATION	A18-0926-001	47	049	50,071		
						7,384,265	
		Passthrough/Partial Passthrough					
		ARIZONA STATE UNIVERSITY/TEMPE	006585	47	050	164,226	
		ARIZONA STATE UNIVERSITY/TEMPE	16-001	47	050	70,967	
		ARIZONA STATE UNIVERSITY/TEMPE	17-170	47	050	12,323	
		CALIFORNIA INSTITUTE OF TECHNOLOGY	681096456	47	050	12,937	
		CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	S140007	47	050	27,100	
		CALIFORNIA STATE UNIVERSITY, SAN JOSE STATE UNIVERSITY FOUNDATION	A18-0010-001	47	050	16,389	
		COLORADO STATE UNIVERSITY	G-96783-2	47	050	9,839	
		COLORADO STATE UNIVERSITY	G-84221-1	47	050	25,160	
		COLORADO STATE UNIVERSITY	G-96783-1	47	050	10,842	
		COLUMBIA UNIVERSITY	2(GG009393-01)	47	050	32,817	
		COLUMBIA UNIVERSITY	3 (GG008992)	47	050	239,433	
		COLUMBIA UNIVERSITY	3(GG008855)	47	050	93,178	
		COLUMBIA UNIVERSITY	46(GG009393)	47	050	40,485	
		COLUMBIA UNIVERSITY	A17-0707-001	47	050	19,925	
		COLUMBIA UNIVERSITY	009101	47	050	14,671	
	COLUMBIA UNIVERSITY	1(GG013222) PO G1270C	47	050	37,892		

UNIVERSITY OF CALIFORNIA
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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
NATIONAL SCIENCE FOUNDATION	COLUMBIA UNIVERSITY	63484	47	050	486	
	COLUMBIA UNIVERSITY	A15-0275-001	47	050	98,222	6,670
	COLUMBIA UNIVERSITY	A17-0414-003	47	050	11,212	
	COLUMBIA UNIVERSITY	A17-0484-001	47	050	111,235	
	COLUMBIA UNIVERSITY	A18-0526-001	47	050	26,548	
	CONSORTIUM FOR OCEAN LEADERSHIP	88875	47	050	-5	
	CONSORTIUM FOR OCEAN LEADERSHIP	87386	47	050	-2	
	CONSORTIUM FOR OCEAN LEADERSHIP	63378	47	050	-375	
	CORNELL UNIVERSITY	78328-10838	47	050	98,906	
	INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY	08-UCSD-SAGE	47	050	4,713,953	
	INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY	09-UCSD (MD)-SAGE	47	050	678,986	
	INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY	IRIS 56-OMO	47	050	1,866,513	
	JOHNS HOPKINS UNIVERSITY	2001377399	47	050	47,814	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003955	47	050	84,061	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710004225	47	050	67,501	
	NORTHERN ARIZONA UNIVERSITY	A16-0498-002	47	050	33,006	
	PENNSYLVANIA STATE UNIVERSITY	5038-UC-NSF-0507	47	050	137,096	
	PORTLAND STATE UNIVERSITY	207LOI582	47	050	49,751	
	PRINCETON UNIVERSITY	SUB00000008	47	050	1,001,712	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	5898	47	050	47,800	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	5995	47	050	1,276	
	THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	SUB 2014-107 (AGS-1358386)	47	050	-34	
	TUFTS UNIVERSITY	101180-00001	47	050	30,741	
	UNAVCO, INC.	UNAVCO S13-EAR1261833-S3	47	050	195,630	
	UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS)	R983146	47	050	168,560	
	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	Z16-21927-CYC2	47	050	37,123	
	UNIVERSITY OF ALASKA	A18-0011-001	47	050	1,422	
	UNIVERSITY OF CHICAGO	FP052668	47	050	76,270	
	UNIVERSITY OF CHICAGO	FP052668-D	47	050	290,189	
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	1553802	47	050	8,133	
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	1550692	47	050	26,570	
	UNIVERSITY OF HAWAII AT HILO	MA1129	47	050	105,495	
	UNIVERSITY OF HAWAII AT MANOA	MA1126	47	050	66,134	
	UNIVERSITY OF ILLINOIS	2014-04289-03-00	47	050	28,864	
	UNIVERSITY OF MARYLAND	009242	47	050	48,183	
	UNIVERSITY OF MIAMI	S15-15-CYC2	47	050	176	
	UNIVERSITY OF MIAMI	S15-49	47	050	206,208	
	UNIVERSITY OF MIAMI	S15-50	47	050	412,244	
	UNIVERSITY OF MINNESOTA	88575	47	050	-237	
	UNIVERSITY OF MINNESOTA	D004450802	47	050	37,172	
	UNIVERSITY OF MINNESOTA	A003176714	47	050	11,082	
	UNIVERSITY OF NEVADA, RENO	UNR-18-02	47	050	5,050	
	UNIVERSITY OF NEW HAMPSHIRE	14-063	47	050	18,916	
	UNIVERSITY OF NEW HAMPSHIRE	16-001	47	050	29,422	
	UNIVERSITY OF NEW HAMPSHIRE	17-014	47	050	45,011	
	UNIVERSITY OF NEW MEXICO	133660-8730	47	050	16,327	
	UNIVERSITY OF NEW MEXICO	63492	47	050	9,392	
	UNIVERSITY OF NEW MEXICO	A17-0628-001	47	050	298,637	
	UNIVERSITY OF OREGON	96397	47	050	-677	
	UNIVERSITY OF SOUTH FLORIDA	2500156500A	47	050	16,852	
	UNIVERSITY OF SOUTHERN CALIFORNIA	63134	47	050	4	
	UNIVERSITY OF SOUTHERN CALIFORNIA	A00-0936-015	47	050	8,220	
	UNIVERSITY OF SOUTHERN CALIFORNIA	009417	47	050	1,561	
	UNIVERSITY OF SOUTHERN CALIFORNIA	91272867	47	050	11,053	
	UNIVERSITY OF SOUTHERN CALIFORNIA	A00-0936-014	47	050	23,767	
	UNIVERSITY OF SOUTHERN CALIFORNIA	A17-0917-001	47	050	23,483	
	UNIVERSITY OF SOUTHERN CALIFORNIA	LIU-90703282:1	47	050	3,867	
	UNIVERSITY OF SOUTHERN CALIFORNIA	MENG-90703282:1	47	050	19,970	
	UNIVERSITY OF SOUTHERN CALIFORNIA	MOON-90703282	47	050	23,986	
	UNIVERSITY OF SOUTHERN CALIFORNIA	SHEN-90703282	47	050	29,969	
	UNIVERSITY OF SOUTHERN CALIFORNIA	100670135	47	050	27,816	
	UNIVERSITY OF SOUTHERN CALIFORNIA	91261301	47	050	27,530	
	UNIVERSITY OF TEXAS-AUSTIN	UTA11-001081	47	050	-844	
	UNIVERSITY OF UTAH	10043668	47	050	13,853	
	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A101360	47	050	235,642	
	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A101369	47	050	86,561	
	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A17-0790-001	47	050	19,742	
	SOUTHERN CALIFORNIA EARTHQUAKE CENTER	91269673	47	050	66,965	
					12,715,880	6,670

Passthrough/Partial Passthrough

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			Prefix	Extension	Federal Expenditures		
NATIONAL SCIENCE FOUNDATION	BINGHAMTON UNIVERSITY	007239	47	070	91,248		
	COMPUTING RESEARCH ASSOCIATION	UCLA_ALLIANCE001	47	070	35,109		
	CORNELL UNIVERSITY	76221-10547	47	070	257,928		
	GEORGIA INSTITUTE OF TECHNOLOGY	RD199-G11-CYC2	47	070	885		
	HDF GROUP	05-15	47	070	82,636		
	INDIANA UNIVERSITY	BL-4840230-UCLA	47	070	65,264		
	INDIANA UNIVERSITY	UA4812506UCD	47	070	42,301		
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SUB 72401 (CNS1413905)	47	070	71,761		
	NORTHWESTERN UNIVERSITY	SPO029341 PROJ0007719 (ACI-14	47	070	68,480		
	OHIO STATE UNIVERSITY	60056238	47	070	15,192		
	OHIO STATE UNIVERSITY	60057106	47	070	28,606		
	OLD DOMINION UNIVERSITY RESEARCH FOUNDATION	SUB 17-123-100613-010(1608140	47	070	17,229		
	PENNSYLVANIA STATE UNIVERSITY	5038-UCSB-NSF-3052	47	070	5,067		
	PURDUE UNIVERSITY	4101-38048	47	070	365,488		
	PURDUE UNIVERSITY	SUB 4101-38049 (CCF-0939370)	47	070	203,104		
	PURDUE UNIVERSITY	4101-83360	47	070	39		
	RICE UNIVERSITY	80013	47	070	390		
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	0209	47	070	244,500		
	UNIVERSITY OF CONNECTICUT	96324	47	070	47,780		
	UNIVERSITY OF ILLINOIS	078343-15668	47	070	142,715		
	UNIVERSITY OF ILLINOIS	SUB 083842-16110(ACI-1548562)	47	070	2,874,593		
	UNIVERSITY OF ILLINOIS AT CHICAGO	SUB 20151074 (CNS-1456638)	47	070	245,440		
	UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	58688	47	070	-5,269		
	UNIVERSITY OF MASSACHUSETTS AMHERST	13-007361 A 00-CYC1	47	070	29,402		
	UNIVERSITY OF MEMPHIS	20163902	47	070	193,929		
	UNIVERSITY OF MEMPHIS	A126878	47	070	57,098		
	UNIVERSITY OF MISSOURI	SUB C00058703-1 (730655)	47	070	24,017		
	UNIVERSITY OF NEW MEXICO	007941	47	070	51,598		
	UNIVERSITY OF NEW MEXICO	063045-873R	47	070	263,195		
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5105700	47	070	84,791		
	UNIVERSITY OF NOTRE DAME (INCL GEM)	202917UCI-CYC1	47	070	71,035		
	UNIVERSITY OF SOUTH FLORIDA	2106-1251-00-A	47	070	33,433		
	UNIVERSITY OF SOUTHERN CALIFORNIA	20154552	47	070	191,843		
	UNIVERSITY OF TEXAS-AUSTIN	UTA16-000755	47	070	72,721		
	UNIVERSITY OF UTAH	10037670-UCI-CYC1	47	070	74,369		
	UNIVERSITY OF UTAH	10038993-UCI-CYC1	47	070	146,167		
	UNIVERSITY OF WASHINGTON	UWSC9467	47	070	28,656		
	UNIVERSITY OF WASHINGTON	UWSC9942	47	070	3,105		
	VANDERBILT UNIVERSITY	3833-019899	47	070	81,299		
	VANDERBILT UNIVERSITY	UNIV59076	47	070	55,321		
	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	479589-19910	47	070	86,817		
	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	479589-19905-CYC1	47	070	31,554		
	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	SUB 478589-19A28 (ACI-1547580	47	070	31,346		
						6,512,182	
		Passthrough/Partial Passthrough					
		UNIVERSITY OF ARIZONA	Y503161	47	071	24,004	
						24,004	
		Passthrough/Partial Passthrough					
		AMERICAN SOCIETY FOR CELL BIOLOGY	201400396	47	074	20,685	
		ARIZONA STATE UNIVERSITY/TEMPE	17184	47	074	6,650	
		ARIZONA STATE UNIVERSITY/TEMPE	DEB1414374	47	074	64,228	
		BARNARD COLLEGE	UCD1455957	47	074	154,395	
		BROWN UNIVERSITY	00000776	47	074	9,242	
		CARY INSTITUTE OF ECOSYSTEM STUDIES	3161/200201406	47	074	-5	
		CARY INSTITUTE OF ECOSYSTEM STUDIES	1637661	47	074	10,747	
		CHAPMAN UNIVERSITY	500223-0001-CYC1	47	074	1,321	
		CHAPMAN UNIVERSITY	81734	47	074	1,002	
		CLEMSON UNIVERSITY	2008-206-2012311	47	074	-785	
		COLORADO STATE UNIVERSITY	G25762	47	074	17,071	
	COLORADO STATE UNIVERSITY	G-4023-2	47	074	-711		
	CORNELL UNIVERSITY	6718310110	47	074	480,845		
	FLORIDA INTERNATIONAL UNIVERSITY	800006917-01UG	47	074	20,931		
	FLORIDA STATE UNIVERSITY	008063	47	074	102,434		
	FLORIDA STATE UNIVERSITY	86634	47	074	106,438		
	IOWA STATE UNIVERSITY	420-40-45D	47	074	187,777		
	IOWA STATE UNIVERSITY	009496	47	074	279,555		
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003122	47	074	298,329		
	MICHIGAN TECHNOLOGICAL UNIVERSITY	006931	47	074	123,015		
	NEVADA SYSTEM OF HIGHER EDUCATION	UNR-16-23	47	074	72,467		

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NATIONAL SCIENCE FOUNDATION	NORTHERN ARIZONA UNIVERSITY	63394	47	074	22,839		
	OHIO STATE UNIVERSITY	60061209	47	074	12,900		
	OKLAHOMA STATE UNIVERSITY	AA-5-54654	47	074	272,512		
	PENNSYLVANIA STATE UNIVERSITY	5280-UC-DHHS-6044	47	074	109,868		
	PENNSYLVANIA STATE UNIVERSITY	5491-UC-NSF-6257	47	074	749		
	RICE UNIVERSITY	SUB R3G401 (MCB-1616755)	47	074	60,198		
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	20132841	47	074	1,706,736		
	THE NATIONAL MARINE MAMMAL FOUNDATION	NSF-1656077-1	47	074	495		
	UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS)	R877841	47	074	156,887		
	UNIVERSITY OF ARIZONA	152976	47	074	159,553		
	UNIVERSITY OF ARIZONA	357961	47	074	127,779		
	UNIVERSITY OF FLORIDA	B7640	47	074	-11,356		
	UNIVERSITY OF GEORGIA	007057	47	074	134,944		
	UNIVERSITY OF GEORGIA	39A78	47	074	47,499		
	UNIVERSITY OF MAINE SYSTEM	UMS-1046	47	074	202,538		
	UNIVERSITY OF MICHIGAN	85930	47	074	41,730		
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	SUB 5-37293 (IOS-1343020)	47	074	59,223		
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5108645	47	074	235,197		
	UNIVERSITY OF NOTRE DAME (INCL GEM)	202236	47	074	39,736		
	UNIVERSITY OF PUERTO RICO	2016-002	47	074	40,150		
	UNIVERSITY OF SOUTHERN CALIFORNIA	64141351	47	074	191,768		
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 96743467(BCS-1343544)	47	074	-186		
	UNIVERSITY OF TENNESSEE	A150127S001	47	074	35,280		
	UNIVERSITY OF TEXAS-AUSTIN	UTA13-000215	47	074	24		
	UNIVERSITY OF TEXAS-AUSTIN	UTA17-000640	47	74	81,424		
	UNIVERSITY OF WISCONSIN-MADISON	692K182	47	074	78,996		
	UNIVERSITY OF WYOMING	1002790A	47	074	67,243		
	UNIVERSITY OF WYOMING	1547796	47	074	31,783		
	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	47898919326	47	074	145,753	2,600	
	WASHINGTON STATE UNIVERSITY	127507-G003626	47	074	6,962		
	WASHINGTON UNIVERSITY IN ST. LOUIS	008615	47	074	6,572		
	YALE UNIVERSITY	GR101038 (CON-80001114)	47	074	70,011		
	DONALD DANFORTH PLANT SCIENCE CENTER	23704-C	47	074	88,365		
					6,179,803	2,600	
	Passthrough/Partial Passthrough						
		ARIZONA STATE UNIVERSITY/TEMPE	16-823:01	47	075	9,000	
		BOSTON UNIVERSITY	007901	47	075	12,108	
		BOSTON UNIVERSITY	SUB 4500001956 (SMA-1540920)	47	075	7,747	
		HARVARD UNIVERSITY	133873-5090398	47	075	20,234	
		HASKINS LABORATORIES, INC	1	47	075	16,331	
		JOHNS HOPKINS UNIVERSITY	2003169999	47	075	28,665	
		NATIONAL BUREAU OF ECONOMIC RESEARCH, INC	27355600079185770C	47	075	1,997	
		NATIONAL BUREAU OF ECONOMIC RESEARCH, INC	80213	47	075	-59	
		RICE UNIVERSITY	R3F755	47	075	11,903	
		RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	0080	47	075	81,663	
		STANFORD UNIVERSITY	61343100-122890-CYC1	47	075	82,735	
		STATE UNIVERSITY OF NEW YORK	550-1142143-79134	47	075	15,846	
		UNIVERSITY OF FLORIDA	009493	47	075	11,308	
	UNIVERSITY OF HOUSTON	R-17-0051	47	075	7,095		
	UNIVERSITY OF MICHIGAN	3003321372:02	47	075	774		
	UNIVERSITY OF MICHIGAN	3004172823	47	075	214,576		
	UNIVERSITY OF MINNESOTA	A005858801	47	075	56,812		
	UNIVERSITY OF WASHINGTON	A17-0315-001	47	075	742		
	UNIVERSITY OF WISCONSIN-MADISON	57562	47	075	49,996		
	VANDERBILT UNIVERSITY	SUB 58534 (1640681)	47	075	8,618		
	UNIVERSITY OF COLORADO COLORADO SPRINGS	18-089-001	47	075	8,102		
					646,193		
Passthrough/Partial Passthrough							
	AMERICAN MUSEUM OF NATURAL HISTORY	3-2014	47	076	94,852		
	CITY COLLEGE OF THE CITY UNIVERSITY OF NEW YORK, THE	SUB 40F51-A (DUE-1524779)	47	076	35,308		
	COLORADO STATE UNIVERSITY	G-96702-4	47	076	36,364		
	CONCORD CONSORTIUM, THE	282-02.01	47	076	55,981		
	EDUCATION DEVELOPMENT CENTER, INC.	11826	47	076	197,390		
	HARVARD UNIVERSITY	123930-5097974-CYC1	47	076	11,128		
	MICHIGAN STATE UNIVERSITY	RC104101UCB	47	076	79,890		
	NEW YORK UNIVERSITY	20164861	47	076	13,716		
	PENNSYLVANIA STATE UNIVERSITY	5510-UCI-NSF-4355-CYC1	47	076	66,238		
	RAND CORP	9920160031	47	076	52,197		
	STEVENS INSTITUTE OF TECHNOLOGY	SUB 2102411-01 (DUE-1407123)	47	076	8,134		

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NATIONAL SCIENCE FOUNDATION	UNIVERSITY OF KANSAS/KU CENTER FOR RESEARCH, INC.	FY2016056	47	076	23,093	
	UNIVERSITY OF MICHIGAN	3003593049	47	076	128,101	
	UNIVERSITY OF MICHIGAN	SUB 3004501602(DRL-1743150)	47	076	21,426	
	UNIVERSITY OF NEW MEXICO	008256	47	076	93,781	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5105374	47	076	2,158	
	UNIVERSITY OF SAN DIEGO	F12078-U2013-005	47	076	68,668	
	UNIVERSITY OF SAN DIEGO	MARSS1172-U2014-003	47	076	87,227	
	UNIVERSITY OF WISCONSIN-MADISON	787K161	47	76	17,827	
	VANDERBILT UNIVERSITY	96273	47	076	-43	
	WESTED	S-00014572-CYC1	47	076	81,838	
	WGBH EDUCATIONAL FOUNDATION	K201700254	47	076	109,651	
	FOUNDATION FOR CALIFORNIA COMMUNITY COLLEGES	SUB NS-017-17 (DUE-1645083)	47	076	27,379	
						1,312,304
	Passthrough/Partial Passthrough					
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SA0000200:7	47	079	356,774	
	CRDF GLOBAL	OISE-16-62791-0	47	079	24,479	
	CRDF GLOBAL	OISE-15-62024-1-CYC3	47	079	1,544	
	KANSAS STATE UNIVERSITY	1743701	47	079	14,486	
	UNIVERSITY OF PITTSBURGH	0055445	47	079	64,271	
	VANDERBILT UNIVERSITY	UNIV57932	47	079	10,889	
						472,443
	Passthrough/Partial Passthrough					
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	SUB 5037146 (OCI-0940841)	47	080	2,232	
						2,232
	Passthrough/Partial Passthrough					
	BOISE STATE UNIVERSITY	6800-G	47	083	65,037	
PENNSYLVANIA STATE UNIVERSITY	86699	47	083	145,565		
PENNSYLVANIA STATE UNIVERSITY	008449	47	083	43,409		
TEXAS A&M UNIVERSITY - COLLEGE STATION	009285	47	083	44,667		
UNIVERSITY OF ILLINOIS	2015-02361-01	47	083	96,694		
UNIVERSITY OF SOUTHERN CALIFORNIA	72781708	47	083	91,427		
UNIVERSITY OF SOUTHERN CALIFORNIA	A16-0468-004	47	083	246,312		
					733,111	
Direct						
NATIONAL SCIENCE FOUNDATION	VARIOUS	47	RD	461,080,827	30,655,726	
Passthrough/Partial Passthrough						
ASSOCIATED UNIVERSITIES, INC	358709	47	RD	15,234		
ASTRONOMICAL SOCIETY OF THE PACIFIC, THE	A00-1812-005	47	RD	21,574		
CARLETON COLLEGE	28-1773	47	RD	9,777		
COLORADO STATE UNIVERSITY	79985	47	RD	-720		
FORT VALLEY STATE UNIVERSITY	201703511	47	RD	24,656		
HARVARD UNIVERSITY	130783-5097125	47	RD	25,071		
ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-8628-4609	47	RD	-8,059		
SYRACUSE UNIVERSITY	28250-04301-S15-CYC1	47	RD	5,000		
TENNESSEE STATE UNIVERSITY	85557	47	RD	-7,413		
UNIVERSITY OF GEORGIA	E323961	47	RD	42,531		
UNIVERSITY OF ILLINOIS	15859	47	RD	6,508		
UNIVERSITY OF MINNESOTA	A004088504	47	RD	188,640		
UNIVERSITY OF NOTRE DAME (INCL GEM)	202764UCD	47	RD	228		
VISOLIS, INC.	042800	47	RD	63,357		
WESTED	S00030264.0	47	RD	103,353		
				461,570,564	30,655,726	
NATIONAL SCIENCE FOUNDATION Total				503,202,056	30,716,051	
SMALL BUSINESS ADMINISTRATION (SBA)						
Direct						
SMALL BUSINESS ADMINISTRATION (SBA)	VARIOUS	59	RD	25,951		
				25,951		
SMALL BUSINESS ADMINISTRATION (SBA) Total				25,951		
DEPARTMENT OF VETERANS AFFAIRS						
Direct						
DEPARTMENT OF VETERANS AFFAIRS	VARIOUS	64	RD	8,173,927		
DEPARTMENT OF VETERANS AFFAIRS (ARRA)	VARIOUS	64	RD	3,969,784		
				12,143,711		
DEPARTMENT OF VETERANS AFFAIRS Total				12,143,711		
ENVIRONMENTAL PROTECTION AGENCY						
Passthrough/Partial Passthrough						
CALIFORNIA STATE COASTAL CONSERVANCY	12065	66	126	65,790		

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			Prefix	Extension	Federal Expenditures	
ENVIRONMENTAL PROTECTION AGENCY					65,790	
	Passthrough/Partial Passthrough UNIVERSITY OF CONNECTICUT	137828	66	437	7,201 7,201	
	Passthrough/Partial Passthrough CONSTITUTIONAL RIGHTS FOUNDATION	2016 EPA01	66	440	6,229 6,229	
	Passthrough/Partial Passthrough STATE WATER RESOURCES CONTROL BOARD STATE WATER RESOURCES CONTROL BOARD	D16-15001 D1615002	66 66	454 454	169,719 53,632 223,351	
	Passthrough/Partial Passthrough CALIFORNIA STATE COASTAL CONSERVANCY	15-051	66	461	31,231 31,231	
	Passthrough/Partial Passthrough COLORADO STATE UNIVERSITY PARADIGM ENVIRONMENTAL, INC. SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT UNIVERSITY OF ILLINOIS UNIVERSITY OF IOWA UNIVERSITY OF NORTH CAROLINA SYSTEM UNIVERSITY OF WASHINGTON UNIVERSITY OF WASHINGTON	G-58008-1-CYC1 PE-EPAR9-UCB001 17203 070066-14318-CYC5 005719 5754601602 79156 UWSC10117	66 66 66 66 66 66 66 66	509 509 509 509 509 509 509 509	69,931 133,320 56,791 403 53,223 8,914 90 51,823 374,495	
	Passthrough/Partial Passthrough COLORADO SCHOOL OF MINES HEALTH EFFECTS INSTITUTE PUBLIC POLICY INSTITUTE OF CALIFORNIA	401090-5801 20151048 201500318	66 66 66	511 511 511	141,851 88,369 140,770 370,990	
	Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION	15C0091	66	605	130,110 130,110	
	Passthrough/Partial Passthrough MONTEREY BAY AQUARIUM FOUNDATION	63536	66	951	13 13	
	Direct ENVIRONMENTAL PROTECTION AGENCY	VARIOUS	66	RD	5,869,421	517,124
	Passthrough/Partial Passthrough RTI INTERNATIONAL SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT STATE WATER RESOURCES CONTROL BOARD ASSOCIATION OF BAY AREA GOVERNMENTS STATE OF NEVADA	5-312-0215574-52958L 15650 70A99 11853-2018 DEPS 18-011	66 66 66 66 66	RD RD RD RD RD	30,743 48,238 365,755 14,562 59,999 6,388,718	517,124
ENVIRONMENTAL PROTECTION AGENCY Total					7,598,128	517,124
NUCLEAR REGULATORY COMMISSION						
	Direct NUCLEAR REGULATORY COMMISSION	VARIOUS	77	RD	476,910 476,910	60,585 60,585
NUCLEAR REGULATORY COMMISSION Total					476,910	60,585
DEPARTMENT OF ENERGY						
	Passthrough/Partial Passthrough BATTELLE MEMORIAL INSTITUTE GENERAL ATOMICS GENERAL ATOMICS LAWRENCE LIVERMORE NATIONAL SECURITY, LLC OAK RIDGE NATIONAL LABORATORY OAK RIDGE NATIONAL LABORATORY	170434 4500059737-CYC1 4500063485-CYC1 B610987 4000136272-CYC1 4000159454-CYC1	81 81 81 81 81 81	036 036 036 036 036 036	21,810 295,868 151,996 12,508 281,420 119,437 883,039	34,514 34,514
	Passthrough/Partial Passthrough AERODYNE RESEARCH, INC.	ARI112931	81	049	38,985	

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF ENERGY	AERODYNE RESEARCH, INC.	ARI 10978-5-CYC3	81	049	4,031	
	AEROSOL DYNAMICS, INC.	3528	81	049	157,450	
	AGILTRON, INC.	150545	81	049	24,775	
	BINGHAMTON UNIVERSITY	039699	81	049	281,399	
	BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	198731:10	81	049	65,416	
	BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	233044:4	81	049	133,961	
	BUCK INSTITUTE FOR RESEARCH ON AGING	SA29494	81	049	10,288	
	CALIFORNIA INSTITUTE OF TECHNOLOGY	68J-1090279-CYC10	81	049	377,108	
	CALIFORNIA INSTITUTE OF TECHNOLOGY	SUB 650-1097562 (DE-SC001646f	81	049	196,560	
	CALIFORNIA INSTITUTE OF TECHNOLOGY	SUB 68JCAP-1090300 (DE-SC0004	81	049	102,564	
	COLORADO STATE UNIVERSITY	G000272	81	049	1,189	
	COLUMBIA UNIVERSITY	1(GG008772)	81	049	132,393	
	COLUMBIA UNIVERSITY	SUB 1(GG008714) (DE-SC001821f	81	049	155,578	
	DIRAC SOLUTIONS INC.	A18-0322-001	81	049	38,264	
	FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO)	PO 613885	81	049	88,432	88,432
	FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO)	PO#619181:4	81	049	13,814	
	GENERAL ATOMICS	4500059085	81	049	702,114	
	GENERAL ENGINEERING & RESEARCH, LLC	SUB 20173615 (DE-SC0015932)	81	049	66,758	
	HARVARD UNIVERSITY	130298-5106298	81	049	60,115	
	HJ SCIENCE AND TECHNOLOGY, INC.	20161999	81	049	22,305	
	IOWA STATE UNIVERSITY	401-21-37D	81	049	94,583	
	J. CRAIG VENTER INSTITUTE	SUB JCVI-17-014 (DE-SC0018344)	81	049	166,405	
	JOHNS HOPKINS UNIVERSITY	SUB 2002373314 (DESC0012658)	81	049	25,645	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	A18-0907-001	81	049	12,239	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B613194:2	81	049	2,517	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B623026	81	049	30,000	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B628729	81	049	6,483	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SUB B623760 (B599552)	81	049	20,000	
	LOS ALAMOS NATIONAL SECURITY, LLC	383906	81	049	28,553	
	LOS ALAMOS NATIONAL SECURITY, LLC	416628	81	049	97,717	
	LOS ANGELES DEPARTMENT OF WATER AND POWER	20616	81	049	-271	
	LOS GATOS RESEARCH, INC.	8721B	81	049	1	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	58426	81	049	-39,903	
	MIDWEST RESEARCH INST	XFC-6-62064-01:2	81	049	25,369	
	MOLECULAR VISTA	MV-204785-CYC2	81	049	17,466	
	NORTHWESTERN UNIVERSITY	79152	81	049	1,706	
	OAK RIDGE NATIONAL LABORATORY	4000116770:09	81	049	174,322	
	OAK RIDGE NATIONAL LABORATORY	4000158959	81	049	9,794	
	PACIFIC NORTHWEST NATIONAL LABORATORIES	261296:2	81	049	12,228	
	PENNSYLVANIA STATE UNIVERSITY	4916-USB-DOE-0620	81	049	106,259	
	PENNSYLVANIA STATE UNIVERSITY	SUB 5065-UCSD-DOE-2375 (DE-SI	81	049	84,725	
	PENNSYLVANIA STATE UNIVERSITY	5024-UCLA-DOE-2377:2	81	049	101,530	
	PURDUE UNIVERSITY	4105-77312	81	049	223,164	
	RADIABEAM TECHNOLOGIES, LLC	DE-SC0017102	81	049	43,736	
	RADIABEAM TECHNOLOGIES, LLC	79381	81	049	170,936	
	RADIASOFT LLC	20171598	81	049	52,688	
	SANDIA NATIONAL LABORATORIES	SUB 1856102 (NONE)	81	049	68,836	
	SMART MANUFACTURING LEADERSHIP COALITION	CESMII-2017-S-01	81	049	687,252	
	SPEC, INC.	SPEC 17-0329	81	049	16,836	
	STATE UNIVERSITY OF NEW YORK	68799	81	049	183,591	
	STATE UNIVERSITY OF NEW YORK	68856-11194936-3	81	049	41,266	
	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	72115:2	81	049	66,212	
	TDA RESEARCH, INC.	GA.2050.UC1.14.03-CYC3	81	049	17,561	
	THE UNIVERSITY OF ALABAMA (TUSCALOOSA)	000517656-SC002	81	049	26,363	
	ULTRAMET	PO NO. 13403	81	049	98,767	
	UNIVERSITIES RESEARCH ASSOCIATION (OPERATES FERMILAB)	PO #605974:6	81	049	19,792	
	UNIVERSITIES RESEARCH ASSOCIATION (OPERATES FERMILAB)	88243	81	049	-697	
	UNIVERSITY OF CENTRAL FLORIDA	004518	81	049	132,109	
	UNIVERSITY OF CINCINNATI	009725-002	81	049	230,676	
	UNIVERSITY OF COLORADO BOULDER	1553192-CYC2	81	049	67,647	
	UNIVERSITY OF KANSAS/KU CENTER FOR RESEARCH, INC.	007775	81	049	47,906	
	UNIVERSITY OF MARYLAND	18028-Z7181002:B	81	049	122,134	
	UNIVERSITY OF MARYLAND	Z7181005-CYC4	81	049	369,932	
	UNIVERSITY OF MIAMI	SPC-000615	81	049	15,914	
	UNIVERSITY OF MICHIGAN	3002880403	81	049	256,127	
	UNIVERSITY OF MICHIGAN	3003694279	81	049	191,585	
	UNIVERSITY OF MICHIGAN	3004764256	81	049	188,786	
	UNIVERSITY OF MINNESOTA	A004527503	81	049	192,704	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5107499	81	049	37,638	
	UNIVERSITY OF NOTRE DAME (INCL GEM)	202373	81	049	394,113	
	UNIVERSITY OF NOTRE DAME (INCL GEM)	82124	81	049	140,268	

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DEPARTMENT OF ENERGY	UNIVERSITY OF SOUTHERN CALIFORNIA	66913872:1	81	049	81,176		
	UNIVERSITY OF WASHINGTON	UWSC8126	81	049	10,450		
	UNIVERSITY OF WASHINGTON	763613-CYC3	81	049	4,649		
	UNIVERSITY OF WISCONSIN SYSTEM	005878	81	049	221,625		
	UNIVERSITY OF WISCONSIN-MADISON	609K674:2	81	049	92,282		
	UNIVERSITY OF WISCONSIN-MADISON	614K924:3	81	049	128,984		
	VISOLIS, INC.	20180271	81	049	95,904		
	WASHINGTON UNIVERSITY IN ST. LOUIS	004368	81	049	221,683		
	WASHINGTON UNIVERSITY IN ST. LOUIS	006723	81	049	131,679		
	WAYNE STATE UNIVERSITY	WSU14139-A3:3	81	049	43,161	10,697	
	LASER PRISMATICS, LLC	044715	81	049	67,329		
					8,853,631	99,129	
	Passthrough/Partial Passthrough	UNIVERSITY OF TEXAS-ARLINGTON	B 1260801390-61 (DE-FE0023118)	81	057	4,006	
					4,006		
	Passthrough/Partial Passthrough	UNIVERSITY OF ILLINOIS	2014-04905-01	81	079	29,633	
					29,633		
	Passthrough/Partial Passthrough	NORTH CAROLINA STATE UNIVERSITY	2014-0654-65	81	086	-14,047	
		SILURIA TECHNOLOGIES, INC.	DE-EE0005769	81	086	89,643	
		UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	3200001517-18-075	81	086	201,037	
		UNIVERSITY OF TEXAS-AUSTIN	UTA13-001076:4	81	086	227,280	47,540
					503,913	47,540	
	Passthrough/Partial Passthrough	ALLIANCE FOR SUSTAINABLE ENERGY, LLC	008145	81	087	37,859	
		ARIZONA STATE UNIVERSITY/TEMPE	SUB 17-209(DEEE0007751)	81	087	138,683	
		BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	325257-CYC5	81	087	1,143,599	
	CALIFORNIA MANUFACTURING TECHNOLOGY CONSULTING	DE-EE0007613	81	087	53,095		
	CALWAVE POWER TECHNOLOGIES, INC.	043841	81	087	91,805		
	COLORADO STATE UNIVERSITY	G-12018-1-CYC1	81	087	99,916		
	CORNELL UNIVERSITY	SUB 81344-10987 (DE-EE0007978)	81	087	24,833		
	ELECTRIC POWER RESEARCH INSTITUTE	008250	81	087	62,579		
	ELECTRIC POWER RESEARCH INSTITUTE	10007378-CYC1	81	087	9,352		
	ELECTRIC POWER RESEARCH INSTITUTE	0010006993	81	087	37,173		
	FERMI NATIONAL ACCELERATOR LABORATORY	634691-CYC1	81	087	-4,349		
	GLOBAL ALGAE INNOVATIONS	SUB 160849 (DE-EE0007689)	81	087	287,464		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B617108	81	087	22,137		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B620105	81	087	57,131		
	LOS ALAMOS NATIONAL SECURITY, LLC	324390-CYC1	81	087	146,751		
	MIDWEST RESEARCH INST	XGJ-8-70296-01	81	087	53,979		
	OAK RIDGE NATIONAL LABORATORY	4000132775	81	087	167,291		
	OAK RIDGE NATIONAL LABORATORY	4000152959	81	087	17,082		
	OHIO FUEL CELL COALITION	OFCC-205761-CYC1	81	087	29,028		
	OREGON STATE UNIVERSITY	G0154FA	81	087	41,107		
	SANDIA NATIONAL LABORATORIES	1802334	81	087	17,662		
	SMART MANUFACTURING LEADERSHIP COALITION	CESMII - 2017 - S - 01-CYC1	81	087	81,846		
	SOLAR RESERVE LLC	SUB UCSD-2 (DE-EE0007113)	81	087	120,235		
	SOLAR RESERVE LLC	872F7	81	087	-79,070		
	STANFORD UNIVERSITY	60094381-51077-C	81	087	71,990		
	STANFORD UNIVERSITY	60094385-51077-A	81	087	298,633		
	STANFORD UNIVERSITY	85625	81	087	1,309		
	STANFORD UNIVERSITY	A17-0611-001	81	087	77,510		
	UNIVERSITY OF CENTRAL FLORIDA	SUB 16226104-06 (EE0007327)	81	087	4,186		
	VISOLIS, INC.	20173746	81	087	43,840		
				3,154,656			
Passthrough/Partial Passthrough	BATTELLE MEMORIAL INSTITUTE	009513	81	089	50,579		
	COLUMBIA UNIVERSITY	A17-0866-001	81	089	46,093		
	OREGON STATE UNIVERSITY	G0148A-B	81	089	38,458		
	TDA RESEARCH, INC.	GA.2074.UCI.16.01-CYC1	81	089	23,292		
	TDA RESEARCH, INC.	GA.2339.UCI.16.01-CYC1	81	089	153,963		
	TDA RESEARCH, INC.	GA.2201.008.UCI.18.01-CYC1	81	089	41,144		
	TDA RESEARCH, INC.	GA.2208.UCI.16.01-CYC2	81	089	4,300		
	TDA RESEARCH, INC.	GA.2942.UCI.14.04-CYC5	81	089	134,346		
	TDA RESEARCH, INC.	JE.2939.UCI.14.03-CYC7	81	089	15,000		

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DEPARTMENT OF ENERGY	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	DE-FE0029168	81	089	140,249	
		WAYNE STATE UNIVERSITY 79931	81	089	530	
					647,954	
	Passthrough/Partial Passthrough					
	IDAHO NATIONAL LABORATORY	22051	81	105	-12,226	-12,226
					-12,226	-12,226
	Passthrough/Partial Passthrough					
	CARNEGIE INSTITUTION	4-10469-12	81	112	85,966	
	CORNELL UNIVERSITY	SUB 67350-9962 (DE-NA0001836)	81	112	24,185	
	CORNELL UNIVERSITY	SUB 83228-10970 (DE-NA000376)	81	112	127,809	
	HARVARD UNIVERSITY	130805-5088706	81	112	244,773	
	INTERNATIONAL BUSINESS MACHINES CORPORATION	88845	81	112	-132	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B620838	81	112	106,933	
	OAK RIDGE NATIONAL LABORATORY	4000139957.6	81	112	80,727	
					670,261	
	Passthrough/Partial Passthrough					
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B618358	81	113	19,289	
	SANDIA NATIONAL LABORATORIES	1653354	81	113	4,555	
					23,844	
	Passthrough/Partial Passthrough					
	ARIZONA STATE UNIVERSITY/TEMPE	14-423	81	121	19,078	
	LOS ALAMOS NATIONAL SECURITY, LLC	278765-CYC1	81	121	144,717	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003847	81	121	293,923	73,811
	TEXAS A&M UNIVERSITY - COLLEGE STATION	28-M1800913	81	121	68,291	
	UNIVERSITY OF ILLINOIS	2014-05784-01	81	121	51,189	
	UNIVERSITY OF MICHIGAN	3002964742	81	121	41,786	
	UNIVERSITY OF MICHIGAN	3002964977	81	121	36,064	
	UNIVERSITY OF TENNESSEE	DE-NE0008694	81	121	31	
	UNIVERSITY OF WISCONSIN-MADISON	634K071	81	121	107,525	
	UNIVERSITY OF WISCONSIN-MADISON	776K775	81	121	2,772	
					765,376	73,811
	Passthrough/Partial Passthrough					
	ARIZONA STATE UNIVERSITY/TEMPE	15-617	81	122	24,093	
	LOS ANGELES DEPARTMENT OF WATER AND POWER	20686	81	122	1,256	
	LOS ANGELES DEPARTMENT OF WATER AND POWER	20699	81	122	-15,365	
	SANDIA NATIONAL LABORATORIES	78115	81	122	-9,550	
					434	
	Passthrough/Partial Passthrough					
	BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	A17-0695-001	81	123	61,741	
	BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	A17-0696-001	81	123	13,221	
	BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	A17-0697-001	81	123	142,021	
	BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	A17-0698-001	81	123	98,342	
	BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	A17-0699-001	81	123	186,501	
	BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	A17-0700-001	81	123	58,695	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B622155-CYC1	81	123	59,982	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B616375-CYC2	81	123	15,255	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SUB B627864(DE-AC52-07NA2734)	81	123	29,294	
	LOS ALAMOS NATIONAL SECURITY, LLC	368641-CYC1	81	123	46,434	
	LOS ALAMOS NATIONAL SECURITY, LLC	009390	81	123	46,940	
					758,426	
	Passthrough/Partial Passthrough					
	PRINCETON PLASMA PHYSICS LABORATORY	S015152-F	81	124	31,992	
	UNIVERSITY OF UTAH	10029200-UJB	81	124	172,644	
					204,636	
	Passthrough/Partial Passthrough					
	ARIZONA STATE UNIVERSITY/TEMPE	16002	81	135	166,959	
	CALIFORNIA INSTITUTE OF TECHNOLOGY	7S-1098337-CYC1	81	135	49,999	
	COLUMBIA UNIVERSITY	4(GG008711)	81	135	126,798	
	GAS TECHNOLOGY INSTITUTE	S492	81	135	79,242	
	GAS TECHNOLOGY INSTITUTE	22422	81	135	-440	
	MAGNETO-INERTIAL FUSION TECHNOLOGIES, INC	SUB NONE (AR0000569)	81	135	538,076	
	METROPIA INC.	716001-004	81	135	12,740	
	NANOSD, INC.	SUB NONE (DE-AR0000744)	81	135	295,890	

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DEPARTMENT OF ENERGY	PRINCETON PLASMA PHYSICS LABORATORY	S015422-F	81	135	117,489		
	SRI INTERNATIONAL	119-000279-3	81	135	310,633		
	STANFORD UNIVERSITY	61275607-120983	81	135	243,897		
	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	71360	81	135	49,444		
	UNIVERSITY OF CINCINNATI	009725-002	81	135	149,698		
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	SUB 1554800 (DE-AR0000770)	81	135	210,272		
	UNIVERSITY OF FLORIDA	96376	81	135	-8		
	UNIVERSITY OF ILLINOIS	15653-CYC1	81	135	11,765		
	UNIVERSITY OF TENNESSEE	8500051702	81	135	114,038		
	UNIVERSITY OF WISCONSIN-MADISON	183405383	81	135	4,721		
					2,481,213		
	Direct	DEPARTMENT OF ENERGY	VARIOUS	81	RD	119,548,018	13,108,067
	Passthrough/Partial Passthrough	ADVANCED RESEARCH CORPORATION	36802	81	RD	62,118	
		ALLIANCE FOR SUSTAINABLE ENERGY, LLC	XAT-6-62531-01	81	RD	134,400	
		ALSTOM	89004	81	RD	-77	
		AMES LABORATORY	SC13395	81	RD	147,963	
		ARGONNE NATIONAL LABORATORY	009274	81	RD	61,707	
		BATTELLE MEMORIAL INSTITUTE	177836	81	RD	30,406	
		BLUE RIVER TECHNOLOGY	38A17	81	RD	232,877	
		BLUE RIVER TECHNOLOGY	Y152594	81	RD	2,707	
		BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	39554	81	RD	190,395	
	BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	63913	81	RD	239,524		
	CARNEGIE INSTITUTION	4-10469-18	81	RD	47,883		
	CENTER FOR ENERGY AND ENVIRONMENT	201602545	81	RD	105,717		
	FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO)	29A40	81	RD	3,938		
	FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO)	553611	81	RD	76,148		
	FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO)	617067	81	RD	13,860		
	FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO)	628813	81	RD	12,074		
	FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO)	631801	81	RD	14,468		
	FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO)	633923	81	RD	46,172		
	FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO)	639305	81	RD	3,079		
	FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO)	642024	81	RD	27,926		
	GAS TECHNOLOGY INSTITUTE	85663	81	RD	-1,254		
	GENERAL ATOMICS	SUB 4500054833 (DE-FG02-95ER5	81	RD	9,650		
	GENERAL ATOMICS	SUB 4500060525(DE-FC02-04ER5	81	RD	99,665		
	HYPERV TECHNOLOGIES CORP	H20162	81	RD	125,817		
	IDAHO NATIONAL LABORATORY	193494	81	RD	843		
	IOWA STATE UNIVERSITY	401-21-368	81	RD	5,941		
	KOOTENAI TRIBE OF IDAHO	1988-064-00	81	RD	79,304		
	KOOTENAI TRIBE OF IDAHO	201502254	81	RD	62,011		
	KOOTENAI TRIBE OF IDAHO	A18-1948	81	RD	8,198		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	201602508	81	RD	5,577		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	25B23	81	RD	-963		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B604236	81	RD	22,864		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B616616	81	RD	10,890		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B617085	81	RD	141,888		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B618392	81	RD	106,965		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B618408	81	RD	18,804		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B619357	81	RD	13,458		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B6200849	81	RD	27,943		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B620352	81	RD	128,196		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B620728	81	RD	20,393		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B621019	81	RD	6,025		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B621105	81	RD	29,703		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B621286	81	RD	36,862		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B623076	81	RD	88,640		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SUB B622171 (DE-AC52-07NA273	81	RD	182,131		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	872FA	81	RD	-1,525		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	A18-0425	81	RD	40,370		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B619815	81	RD	8,667		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B623214	81	RD	111,728		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B624727	81	RD	48,837		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B625903-CYC1	81	RD	77,431		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B626393	81	RD	9,999		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B626742-CYC1	81	RD	27,749		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B626804	81	RD	38,825		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B627187	81	RD	48,061		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B627271-CYC1	81	RD	15,584		

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DEPARTMENT OF ENERGY	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B627565	81	RD	9,778		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B628440-CYC1	81	RD	11,953		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	DE-AC52-07NA27344	81	RD	60,549		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SUB B624769 (DE-AC52-07NA27344)	81	RD	104,686		
	LOCKHEED MARTIN CORPORATION	4103052882	81	RD	300,000		
	LOS ALAMOS NATIONAL SECURITY, LLC	211060	81	RD	100,204		
	LOS ALAMOS NATIONAL SECURITY, LLC	SUB 351623 (DEAC52-06NA25396)	81	RD	1,621,481		
	LOS ALAMOS NATIONAL SECURITY, LLC	SUB 370334 (DE-AC52-06NA25396)	81	RD	220,511		
	LOS ALAMOS NATIONAL SECURITY, LLC	SUB 398502 (DE-AC52-06NA25396)	81	RD	16,849		
	LOS ALAMOS NATIONAL SECURITY, LLC	SUB 404673 (NONE)	81	RD	130,634		
	MIDWEST RESEARCH INST	XGJ-7-62614-01	81	RD	208,478		
	OAK RIDGE NATIONAL LABORATORY	005903	81	RD	206,650		
	OAK RIDGE NATIONAL LABORATORY	006982	81	RD	17,974		
	OAK RIDGE NATIONAL LABORATORY	008531	81	RD	79,611		
	OAK RIDGE NATIONAL LABORATORY	40000139641	81	RD	63,834		
	OAK RIDGE NATIONAL LABORATORY	4000100283	81	RD	20,996		
	OAK RIDGE NATIONAL LABORATORY	4000134953	81	RD	101,433		
	OAK RIDGE NATIONAL LABORATORY	4000141233	81	RD	290,089		
	OAK RIDGE NATIONAL LABORATORY	4000145177	81	RD	-16,171		
	OAK RIDGE NATIONAL LABORATORY	4000151688	81	RD	82,228		
	OAK RIDGE NATIONAL LABORATORY	SUB 4000153844 (DE-ACOS-OOOF)	81	RD	45,045		
	OAK RIDGE NATIONAL LABORATORY	009441	81	RD	157,341		
	OAK RIDGE NATIONAL LABORATORY	A18-1037	81	RD	43,650		
	PACIFIC NORTHWEST NATIONAL LABORATORIES	008894	81	RD	59,658		
	PACIFIC NORTHWEST NATIONAL LABORATORIES	190110	81	RD	35,922		
	PACIFIC NORTHWEST NATIONAL LABORATORIES	275882	81	RD	166,895		
	PACIFIC NORTHWEST NATIONAL LABORATORIES	SUB 274570 (DE-AC05-76RL0183C)	81	RD	-33,439		
	PACIFIC NORTHWEST NATIONAL LABORATORIES	387155	81	RD	39,319		
	PACIFIC NORTHWEST NATIONAL LABORATORIES	SUB 375997 (DE-AC05-76RL0183C)	81	RD	312,717	62,249	
	SANDIA NATIONAL LABORATORIES	1486765	81	RD	53,786		
	SANDIA NATIONAL LABORATORIES	1693730	81	RD	2,966		
	SANDIA NATIONAL LABORATORIES	1742077	81	RD	10,357		
	SANDIA NATIONAL LABORATORIES	1743585	81	RD	56,237		
	SANDIA NATIONAL LABORATORIES	1750185	81	RD	6,157		
	SANDIA NATIONAL LABORATORIES	1752703	81	RD	46,057		
	SANDIA NATIONAL LABORATORIES	1770585	81	RD	157,491		
	SANDIA NATIONAL LABORATORIES	1786332	81	RD	117,808		
	SANDIA NATIONAL LABORATORIES	A17-0410-001	81	RD	46,647		
	SANDIA NATIONAL LABORATORIES	PO1627708	81	RD	52,241		
	SANDIA NATIONAL LABORATORIES	PO 1875092-CYC1	81	RD	13,262		
	SANDIA NATIONAL LABORATORIES	1668054	81	RD	68,120		
	SANDIA NATIONAL LABORATORIES	1732394	81	RD	116,820		
	SANDIA NATIONAL LABORATORIES	1744159	81	RD	129,267		
	SANDIA NATIONAL LABORATORIES	1758713	81	RD	78,300		
	SANDIA NATIONAL LABORATORIES	1772593	81	RD	49,834		
	SANDIA NATIONAL LABORATORIES	1850573	81	RD	44,438		
	SANDIA NATIONAL LABORATORIES	83A43	81	RD	102,065		
	SANDIA NATIONAL LABORATORIES	PO 1917520	81	RD	9,753		
	SANDIA NATIONAL LABORATORIES	SUB 1646732 (DE-AC04-94AL850C)	81	RD	204,883		
	SANDIA NATIONAL LABORATORIES	1887840	81	RD	242,073		
	SANDIA NATIONAL LABORATORIES	A15-0012-010	81	RD	116,544		
	SANDIA NATIONAL LABORATORIES	A16-0441-004	81	RD	14,305		
	SANDIA NATIONAL LABORATORIES	1838273	81	RD	61,053		
	SANDIA NATIONAL LABORATORIES	PO1862167	81	RD	20,190		
	UNIVERSITIES RESEARCH ASSOCIATION (OPERATES FERMILAB)	604705	81	RD	32,331		
	UNIVERSITY OF MINNESOTA	A003127005	81	RD	228,095		
	DIGITAL PROMISE	DP-208459-CYC1	81	RD	3,339		
	PLASMA PROCESSES INC.	59581	81	RD	1,128		
	UCHICAGO ARGONNE, LLC	7F-30219-CYC1	81	RD	49,756		
	DEPARTMENT OF ENERGY Total					129,250,758	13,170,316
	DEPARTMENT OF ENERGY					148,219,554	13,413,083
	DEPARTMENT OF EDUCATION	Passthrough/Partial Passthrough					
		GEORGIA STATE UNIVERSITY	008047	84	116	233,951	
						233,951	
		Passthrough/Partial Passthrough					
		REHABILITATION INSTITUTE OF CHICAGO	81760-CYC6	84	133	52,342	
						52,342	
		Passthrough/Partial Passthrough					

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DEPARTMENT OF EDUCATION	CALIFORNIA DEPARTMENT OF EDUCATION	15-14765-3001-9A	84	287	6,505	7,472
	CALIFORNIA DEPARTMENT OF EDUCATION	16-14349-3001-9A	84	287	1,359,125	705,824
					1,365,630	713,297
	Passthrough/Partial Passthrough					
	COLUMBIA UNIVERSITY	1 (GG009670)	84	305	39,810	
	EDBOOST	20103499	84	305	4,224	
	FLORIDA STATE UNIVERSITY	R01855-CYC1	84	305	56	
	HARVARD UNIVERSITY	108135-5099346	84	305	139,116	
	LITERACY DESIGN COLLABORATIVE, INC	20145515	84	305	375,802	
	MINDSET WORKS, INC.	201500250	84	305	288,118	
	UNIVERSITY OF MICHIGAN	3004027875	84	305	85,842	
	UNIVERSITY OF SOUTH CAROLINA	15-2906	84	305	65,810	
	WASHINGTON STATE UNIVERSITY	121927G003243	84	305	-20,030	
	EDUCATIONAL TESTING SERVICE	UCLA-ED-305A	84	305	575	
					979,323	
	Passthrough/Partial Passthrough					
	GEORGIA STATE UNIVERSITY	SP00010919-06-CYC1	84	324	12,204	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B620630	84	324	49,485	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B622549	84	324	22,257	
	PENNSYLVANIA STATE UNIVERSITY	5265-UCI-USDE-0126-CYC2	84	324	46,437	
	UNIVERSITY OF MICHIGAN	3003847265-CYC2	84	324	146,277	
					276,660	
	Passthrough/Partial Passthrough					
	ARIZONA STATE UNIVERSITY/TEMPE	81B55	84	365	3,992	
	PENNSYLVANIA STATE UNIVERSITY	SUB 5590-UCSD-USDE-0311 (T36)	84	365	104,459	
	SANTA CLARA UNIVERSITY	A18-0382-001	84	365	41,548	
					149,999	
	Passthrough/Partial Passthrough					
	ORANGE COUNTY DEPARTMENT OF EDUCATION	41113-CYC1	84	366	16,254	
	SAN DIEGO COUNTY OFFICE OF EDUCATION	16170185	84	366	421	
					16,675	
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF EDUCATION	15-15196-3001-00	84	367	303,146	175,653
	CALIFORNIA DEPARTMENT OF EDUCATION	NCLB14-CWP-UCB	84	367	32,557	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB13-CMP-UCSB	84	367	333	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB13-CWP-UCSB	84	367	1,237	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB14-CHSSP-UCI-CYC1	84	367	40,373	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB14-CMP-UCSB	84	367	20,352	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB14-CSP-UCSB	84	367	32,788	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB14-CWLP-UCB	84	367	24,805	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB14-CWLP-UCI-CYC1	84	367	22,826	
	NATIONAL WRITING PROJECT	92-CA06-SEED2016-ILI-CYC1	84	367	3,773	
	NATIONAL WRITING PROJECT	92-CA06-SEED2017-CRWPPI-CYC1	84	367	15,013	
	NATIONAL WRITING PROJECT	92-CA07-SEED2016 (DOEDU U367)	84	367	-1	
	NATIONAL WRITING PROJECT	92-CA07-SEED2017-CRWPPI	84	367	17,016	
	NATIONAL WRITING PROJECT	SUB 92-CA07-SEED2017-ILI	84	367	14,768	
	SRI INTERNATIONAL	PO11765	84	367	29,874	
					558,860	175,653
	Passthrough/Partial Passthrough					
	NATIONAL MATH AND SCIENCE INITIATIVE, INC.	20160003	84	411	714,124	
	ONU TECHNOLOGY, INC.	201504131	84	411	18,339	
					732,463	
	Direct					
	DEPARTMENT OF EDUCATION	VARIOUS	84	RD	20,470,648	3,066,383
	Passthrough/Partial Passthrough					
	AFINGEN, INC.	30942	84	RD	-1,234	
	NATIONAL SCHOOL DISTRICT	20151009	84	RD	272	
	PACIFIC NORTHWEST NATIONAL LABORATORIES	344130	84	RD	5,000	
					20,474,686	3,066,383
DEPARTMENT OF EDUCATION Total					24,840,589	3,955,333
SMITHSONIAN INSTITUTE						
	Direct					
	SMITHSONIAN	VARIOUS	85	RD	4,763,752	55,231
	VIETNAM EDUCATION FOUNDATION	VARIOUS	85	RD	32,981	

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SMITHSONIAN INSTITUTE					4,796,733	55,231
SMITHSONIAN INSTITUTE Total					4,796,733	55,231
NATIONAL ARCHIVES AND RECORDS ADMINISTRATION						
	Passthrough/Partial Passthrough ANDREW W. MELLON FOUNDATION (THE)	A18-0534-001	89	003	37,307 37,307	
	Direct NATIONAL ARCHIVES AND RECORDS ADMINISTRATION	VARIOUS	89	RD	52,577 52,577	
NATIONAL ARCHIVES AND RECORDS ADMINISTRATION Total					89,884	
INSTITUTE OF PEACE						
	Passthrough/Partial Passthrough ATOX BIO	201600397	91	RD	3,608 3,608	
INSTITUTE OF PEACE Total					3,608	
NATIONAL COUNCIL ON DISABILITY						
	Passthrough/Partial Passthrough THE SCRIPPS RESEARCH INSTITUTE	SUB 5-52225 (NS092306)	92	273	167,535 167,535	
	Passthrough/Partial Passthrough FORDHAM UNIVERSITY	88050	92	279	-1,498 -1,498	
	Passthrough/Partial Passthrough UNIVERSITY OF VIRGINIA	SUB GB1025 150187 (HL127654)	92	837	117,556 117,556	
NATIONAL COUNCIL ON DISABILITY Total					283,593	
DEPARTMENT OF HEALTH AND HUMAN SERVICES						
	Passthrough/Partial Passthrough AFRICAN MEDICAL AND RESEARCH FOUNDATION RIVERSIDE-SAN BERNARDINO COUNTY INDIAN HEALTH, INC	37188-1052 20163878	93 93	001 001	102,511 85,199 187,710	
	Passthrough/Partial Passthrough O-CHEM, INC.	2R44GM096678-02	93	003	129,857 129,857	
	Passthrough/Partial Passthrough DXTERTY DIAGNOSTICS HISPANIC-SERVING HEALTH PROFESSIONS SCHOOLS, INC.	20150825 89584	93 93	004 004	14,354 -6,403 7,951	
	Passthrough/Partial Passthrough CHROMOLOGIC	57754	93	011	-23,101 -23,101	
	Passthrough/Partial Passthrough UNIVERSITY OF ARIZONA UNIVERSITY OF OKLAHOMA UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	278887-CYC2 83221 80899	93 93 93	061 061 061	8,002 -7,481 4,415 4,936	
	Passthrough/Partial Passthrough UNIVERSITY OF WASHINGTON	B1053	93	067	1,785 1,785	
	Passthrough/Partial Passthrough CEDARS-SINAI MEDICAL CENTER HEALTH RESEARCH, INC. PORTLAND STATE UNIVERSITY UNIVERSITY OF ILLINOIS AT CHICAGO UNIVERSITY OF ILLINOIS AT CHICAGO UNIVERSITY OF MINNESOTA UNIVERSITY OF MINNESOTA UNIVERSITY OF MINNESOTA UNIVERSITY OF WISCONSIN-MADISON	13447712 174-02 007815 2013-02549-04-00 16441 C1171 P006513802 P006513904 605K356	93 93 93 93 93 93 93 93 93	077 077 077 077 077 077 077 077 077	22,368 4,122 29,829 95,335 9,062 258,029 89,814 50,628 110,273 669,460	
	Passthrough/Partial Passthrough					

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS	SUB CIBDIX2015CDC-UCSD-1 (DI	93	080	8,351	
					8,351	
	Passthrough/Partial Passthrough					
	DUKE UNIVERSITY	219225	93	081	13,386	
	STRATATECH LLC	STRATA2016-CYC1	93	081	22,585	
					35,971	
	Passthrough/Partial Passthrough					
	HARVARD PILGRIM HEALTH CARE	HPHC-203160-CYC1	93	084	582,698	
	HARVARD PILGRIM HEALTH CARE	HPHC-204704-CYC1	93	084	256,039	
	HARVARD PILGRIM HEALTH CARE	HPHC-204773-CYC1	93	084	39,958	
					878,695	
	Passthrough/Partial Passthrough					
	SANFORD RESEARCH	SR-2018-14	93	085	16,163	
					16,163	
	Passthrough/Partial Passthrough					
	HEALTH QUALITY PARTNERS	SUB WH-AST-17-001_UCSD_WALL	93	088	18,802	
					18,802	
	Passthrough/Partial Passthrough					
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	87525	93	103	2,237	
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	SUB GENFD0001336281 (FD0060C	93	103	29,582	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	962629	93	103	34,986	
	DUKE UNIVERSITY	207574/215728	93	103	6,802	
	JOHN WAYNE INSTITUTE FOR CANCER TREATMENT AND RESEARCH	SUB KESARI-16-01 (FD005077)	93	103	104,650	
	JOHNS HOPKINS UNIVERSITY	2002172146	93	103	38,787	
	RTI INTERNATIONAL	78378	93	103	-4,790	
	STANFORD UNIVERSITY	61334664-122011:1	93	103	314,420	174,661
	STANFORD UNIVERSITY	HHSF223201610081C	93	103	5,697	
	TRACE-ABILITY, INC	TA-UCSF-SUB1	93	103	125,906	
	REAL PREVENTION LLC	RP-205497-CYC1	93	103	41,268	
					699,545	174,661
	Passthrough/Partial Passthrough					
	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS	CIBDIX2012HRSA-UCSF	93	110	46,353	
	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS	H30MC24045	93	110	48,111	
	MASSACHUSETTS GENERAL HOSPITAL	227146-CYC2	93	110	67,635	
	MASSACHUSETTS GENERAL HOSPITAL	MGH-205328-CYC2	93	110	136,330	
	PARTNERS HEALTHCARE SYSTEM, INC	226858-CYC2	93	110	32,747	
	PARTNERS HEALTHCARE SYSTEM, INC	226859-CYC2	93	110	307,569	59,784
	RAND CORP	9920140170 :02	93	110	35,261	
	RAND CORP	9920150142	93	110	56,951	
					730,957	59,784
	Passthrough/Partial Passthrough					
	CANCER PREVENTION INSTITUTE OF CALIFORNIA	R01ES019598-02-UCSF	93	113	575	
	CANCER PREVENTION INSTITUTE OF CALIFORNIA	R01ES026171-UCI-CYC1	93	113	58,229	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	U01ES029234	93	113	179,719	
	COLORADO STATE UNIVERSITY	1-R01ES023688-01A1	93	113	25,307	
	COLORADO STATE UNIVERSITY	G-33752-01	93	113	105,909	
	COLUMBIA UNIVERSITY	SUB 3(GG010691) (ES025225)	93	113	222,176	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	02558271-4609	93	113	152,813	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	A17-0820-001	93	113	102,729	
	JOHNS HOPKINS UNIVERSITY	2002850255	93	113	49,295	
	JOHNS HOPKINS UNIVERSITY	2003191417	93	113	20,838	
	JOHNS HOPKINS UNIVERSITY	2003218455	93	113	149,637	
	MICROVI BIOTECHNOLOGY	041991	93	113	64,621	
	RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK (THE)	1603	93	113	5,842	
	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB NONE (ES025585)	93	113	148,946	
	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB P0170265 (ES025585)	93	113	76,090	
	STANFORD UNIVERSITY	B1430	93	113	2,017	
	STATE UNIVERSITY OF NEW YORK	1456	93	113	26,997	
	SUNY UNIVERSITY AT ALBANY	15-21	93	113	31,335	
	UNIVERSITY OF COLORADO DENVER	FY17.625.006-CYC1	93	113	782,030	
	UNIVERSITY OF COLORADO DENVER	SUB FY17.625.007(ES027698)	93	113	422,664	
	UNIVERSITY OF MICHIGAN	008002	93	113	16,835	
	UNIVERSITY OF MISSOURI	005947	93	113	15,984	
	UNIVERSITY OF NEW MEXICO	3RT23:01	93	113	133,691	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	UNIVERSITY OF PITTSBURGH	U01AG012553	93	113	24,477	
	UNIVERSITY OF SOUTHERN CALIFORNIA	61933158	93	113	176,441	
	UNIVERSITY OF SOUTHERN CALIFORNIA	62248213:2	93	113	8,780	
	UNIVERSITY OF TEXAS-ARLINGTON	12616024261	93	113	22,035	
	UNIVERSITY OF TEXAS-ARLINGTON	R21ES028131	93	113	17,296	
	UNIVERSITY OF TEXAS-AUSTIN	A16-0601-002	93	113	67,250	
	UNIVERSITY OF WASHINGTON	A00-0864-007	93	113	41,896	
	WASHINGTON STATE UNIVERSITY	104099-G003798	93	113	174,755	
	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-14-109 (ES021488)	93	113	7,244	
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-16-159	93	113	15,768	
					3,350,221	
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	A8156	93	116	-90,296	
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	B1726	93	116	1,243,910	
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	17-10035	93	116	1,993,370	
					3,146,984	
	Passthrough/Partial Passthrough					
	BIOVINC LLC	2R44DE025524-02	93	121	278,887	
	BIOVINC LLC	79308	93	121	206	
	BRIGHAM AND WOMEN'S HOSPITAL	110670	93	121	129,486	
	BRIGHAM AND WOMEN'S HOSPITAL	UM1-A1068636 HAVLIR	93	121	407,264	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SA0000601	93	121	50,500	
	CASE WESTERN RESERVE UNIVERSITY	RES511675	93	121	-15	
	DUKE UNIVERSITY	2036412	93	121	59,537	
HARVARD UNIVERSITY	114244-5097391	93	121	143,756		
HARVARD UNIVERSITY	79914	93	121	1,214		
J. CRAIG VENTER INSTITUTE	JCVI-16-004	93	121	6,213		
JOHNS HOPKINS UNIVERSITY	3P50DE019032-11S2	93	121	-310		
JOHNS HOPKINS UNIVERSITY	2003603176	93	121	3,954	1,067	
LANKENAU INSTITUTE FOR MEDICAL RESEARCH	06297-0793	93	121	114,873		
NEW YORK UNIVERSITY	F7606-02	93	121	21,407		
NEW YORK UNIVERSITY	F8605-02 S	93	121	14,350		
PALO ALTO VETERANS INSTITUTE FOR RESEARCH, INC.	R01DE023113	93	121	400,293		
STANFORD UNIVERSITY	1U01DE024430-01/6120632C	93	121	340,279		
STANFORD UNIVERSITY	61676501-123526	93	121	16,964		
UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS)	R980481	93	121	32,561		
UNIVERSITY OF COLORADO DENVER	FY17.530.001-CYC1	93	121	253,570		
UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	FY15.236.004	93	121	178,874		
UNIVERSITY OF MARYLAND	58937	93	121	-2,429		
UNIVERSITY OF MICHIGAN	3004085830	93	121	419,237		
UNIVERSITY OF MICHIGAN	3004119292	93	121	17,009		
UNIVERSITY OF MICHIGAN	3004644384	93	121	24,706		
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5105898	93	121	81,885		
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	33766	93	121	6,128		
UNIVERSITY OF PENNSYLVANIA	567164:3	93	121	77,679		
UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0010816B	93	121	240,659		
UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0011414	93	121	265,577		
KAISER FOUNDATION RESEARCH INSTITUTION	20170125708	93	121	36,187		
				3,620,501	1,067	
Passthrough/Partial Passthrough						
UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	3210000447-17-155	93	135	125,166		
UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	00003349	93	135	-2,588		
				122,578		
Passthrough/Partial Passthrough						
CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	1511002	93	136	294,101		
CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	17-10480	93	136	5,804		
CHILDREN'S HOSPITAL OF PITTSBURGH	88156	93	136	46		
HELUNA HEALTH	0392.0101	93	136	15,327		
PUBLIC HEALTH ADVOCATES	20153323	93	136	266		
				315,544		
Passthrough/Partial Passthrough						
BOSTON UNIVERSITY	4500002421-CYC1	93	143	35,962		
				35,962		
Passthrough/Partial Passthrough						
CITY AND COUNTY OF SAN FRANCISCO	BPHC11000127	93	145	178,614		

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF HEALTH AND HUMAN SERVICES					178,614	
	Passthrough/Partial Passthrough HELUNA HEALTH	79120	93	153	-6,573 -6,573	
	Passthrough/Partial Passthrough CITY AND COUNTY OF SAN FRANCISCO	BPHC11000126	93	157	506,414 506,414	10,905 10,905
	Passthrough/Partial Passthrough ARIMA GENOMICS, INC.	85303	93	172	-14,966	
	BROAD INSTITUTE INC.	A17-0095-001	93	172	104,290	
	CALIFORNIA INSTITUTE OF TECHNOLOGY	18B-1097781-CYC1	93	172	1,372,136	
	HARVARD UNIVERSITY	117112-5098551	93	172	87,066	
	HARVARD UNIVERSITY	117112-5098555	93	172	91,115	
	INDIANA UNIVERSITY	SUB BL-4629708-UCSD (HG00707)	93	172	69	
	JACKSON LABORATORY, THE	SUB TBI (HG007497)	93	172	31,054	
	KAISER PERMANENTE DIVISION OF RESEARCH	B0854	93	172	-22	
	KAISER PERMANENTE DIVISION OF RESEARCH	OOS030229-UCSF	93	172	197,250	
	LUDWIG INSTITUTE FOR CANCER RESEARCH	SUB 241301-05003 (HG006997)	93	172	-268	
	LUDWIG INSTITUTE FOR CANCER RESEARCH	SUB 242201-05003A (HG008135)	93	172	163,470	
	LUDWIG INSTITUTE FOR CANCER RESEARCH	SUB 242201-05003B (HG008135)	93	172	181,903	
	NEW YORK GENOME CENTER INC	UM1-UCLA-2	93	172	24,682	
	NEW YORK GENOME CENTER INC	UM1-UCSF-2	93	172	26,889	
	SRI INTERNATIONAL	A17-0549-001	93	172	166,476	
	STANFORD UNIVERSITY	61280478-12162e	93	172	202,187	
	STANFORD UNIVERSITY	61285160-12316e	93	172	380,693	
	STANFORD UNIVERSITY	A00-0664-011	93	172	5,705	
	UNIVERSITY OF CONNECTICUT	SUB UCHC6-66263883 (HG00700E)	93	172	274,780	
	UNIVERSITY OF CONNECTICUT	SUB UCHC7-101026114 (HG0098)	93	172	13,161	
	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	WA00276640/RFS2015141	93	172	211,006	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	1U01HG007437-01	93	172	2,663	
	UNIVERSITY OF SOUTHERN CALIFORNIA	93063336	93	172	139,558	
	UNIVERSITY OF SOUTHERN CALIFORNIA	97780851	93	172	50,389	
	UNIVERSITY OF WASHINGTON	UWSC8775	93	172	14,764	
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-14-76	93	172	43	
	WELLCOME TRUST, THE	A00-2225-006	93	172	-6,139	
	ALBERT EINSTEIN COLLEGE OF MEDICINE INC.	SUB 311106 (HG008153)	93	172	308,927	
	EUROPEAN BIOINFORMATICS INSTITUTE	A17-0370-001	93	172	243,277	
					4,272,158	
	Passthrough/Partial Passthrough CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SUB SA0000551 (DC015046)	93	173	373,175	
	FATHER FLANAGANS BOYS HOME	96411-B	93	173	25,855	
	JOHNS HOPKINS UNIVERSITY	80394	93	173	1,949	
	OREGON HEALTH & SCIENCE UNIVERSITY	008310	93	173	104,106	
	OREGON HEALTH & SCIENCE UNIVERSITY	SUB 1002383 (DC012938)	93	173	7,590	
	RESEARCH FOUNDATION FOR STATE UNIVERSITY OF NEW YORK, THE	1048815	93	173	102,987	
	UNIVERSITY OF ILLINOIS	SUB 063773-00001 7235 (DC0131)	93	173	7,888	
	UNIVERSITY OF SOUTH CAROLINA	17-3346-CYC1	93	173	118,317	
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0011468C-CYC2	93	173	-2,424	
	UNIVERSITY OF TEXAS-AUSTIN	R03DC013403	93	173	21,878	
	UNIVERSITY OF TEXAS-AUSTIN	UTA17-000878	93	173	111,643	
	UNIVERSITY OF TEXAS-AUSTIN	UTA17-000879	93	173	175,383	
	UNIVERSITY OF TEXAS-AUSTIN	UTA18-000057-CYC1	93	173	53,728	
	UNIVERSITY OF UTAH	10041913-027	93	173	1,037	
	WEST VIRGINIA UNIVERSITY	SUB 05-159-UCSD (DC007695)	93	173	60,120	
					1,163,232	
	Passthrough/Partial Passthrough CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS	CIBDIX2011CDC-UCSF-1	93	184	26,585 26,585	
	Passthrough/Partial Passthrough JOHNS HOPKINS UNIVERSITY	88354	93	185	-19	
	UNIVERSITY OF ROCHESTER	416941	93	185	4,895 4,876	
	Passthrough/Partial Passthrough MICHIGAN STATE UNIVERSITY	RC107653-UCSF	93	197	39,056	

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF HEALTH AND HUMAN SERVICES					39,056	
	Passthrough/Partial Passthrough					
	NEXTRAST, INC	A130673	93	213	111,499	
	RAND CORP	9920140048:07	93	213	98,763	
	UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS	A15-0206-003	93	213	190,105	
	UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS	A15-0206-005	93	213	289,188	
	UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS	GMO-120904-6	93	213	-371,147	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA ADV LANG (AT007936)	93	213	58,629	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GOLSHAN 312138 (AT 00793	93	213	11,764	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HURST 312140 (AT 007936)	93	213	7,190	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LANG (AT007936)	93	213	16,407	
					412,398	
	Passthrough/Partial Passthrough					
	AGENCY FOR HEALTHCARE RESEARCH AND QUALITY	R01HS025429	93	226	88,032	
	CEDARS-SINAI MEDICAL CENTER	0001296869:01	93	226	42,309	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	134795:2	93	226	24,772	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	321060	93	226	31,338	
	DARTMOUTH COLLEGE	R814	93	226	54,049	
	DARTMOUTH COLLEGE	R815	93	226	303,558	
	DUKE UNIVERSITY	203-7629	93	226	106,772	
	DUKE UNIVERSITY	2038054	93	226	64,728	
	DUKE UNIVERSITY	203-7623	93	226	55,690	
	DUKE UNIVERSITY	70A51	93	226	12,395	
	HARVARD PILGRIM HEALTH CARE	1R18HS021424-01-CYC7	93	226	29,527	
	JOHNS HOPKINS UNIVERSITY	2002441400-CYC2	93	226	154,880	
	JOHNS HOPKINS UNIVERSITY	2003396916	93	226	253,280	
	RAND CORP	9920150014:04	93	226	23,076	
	RAND CORP	9920160022:04	93	226	81,060	
	RAND CORP	9920180026	93	226	15,886	
	RHODE ISLAND HOSPITAL	701-713-7041-CA	93	226	4,351	
	STANFORD UNIVERSITY	6085-6377-114856	93	226	107,901	
	UNIVERSITY OF MICHIGAN	3003979846-CYC2	93	226	28,288	
	UNIVERSITY OF ROCHESTER	416933-CYC1	93	226	38,415	
	UNIVERSITY OF ROCHESTER	416931:2	93	226	82,731	
	UNIVERSITY OF ROCHESTER	417278/URFAO GR51752	93	226	4,817	
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0011289	93	226	132,449	
	UNIVERSITY OF UTAH	10042477-02	93	226	10,991	
	VANDERBILT UNIVERSITY	VUMC 57336	93	226	16,930	
	WAYNE STATE UNIVERSITY	WSU12079	93	226	1,074	
	KAISER FOUNDATION RESEARCH INSTITUTION	HHS2902015000071	93	226	75,566	
	AMERICAN COLLEGE OF SURGEONS	A129384	93	226	121,309	
					1,966,174	
	Passthrough/Partial Passthrough					
	ARIZONA STATE UNIVERSITY/TEMPE	15-601:02	93	233	-306	
	UNIVERSITY OF SOUTH CAROLINA	79864	93	233	-12,045	
					-12,351	
	Passthrough/Partial Passthrough					
	ADVANCED BRAIN MONITORING, INC.	SUB NONE (MH097303)	93	242	48,554	
	ALLEN INSTITUTE FOR BRAIN SCIENCE	SUB 20170566 (MH114827)	93	242	282,651	
	ALLEN INSTITUTE FOR BRAIN SCIENCE	2017-0573	93	242	843,953	
	ALLEN/LOEB ASSOCIATES	A127351	93	242	90,040	85,015
	ALLEN/LOEB ASSOCIATES	R44MH099917	93	242	90,948	
	BAYLOR COLLEGE OF MEDICINE	7000000444	93	242	29,227	
	BIOPICO SYSTEMS	BPS-101073-CYC4	93	242	7,677	
	BRIGHAM AND WOMEN'S HOSPITAL	SUB 112807 (MH091448)	93	242	105,997	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	89229	93	242	100	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SUB SA0000067 (MH100260)	93	242	14,516	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SUB SA0000471 (MH107802)	93	242	7,135	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SUB SA0000502 (5R01MH101173-	93	242	9,938	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	83115	93	242	-1,558	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SUB SA0000475(MH103494)	93	242	65,386	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SUB SA0000478 58347B P4171 78	93	242	10,947	
	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	S16-0021	93	242	13,782	
	CEDARS-SINAI MEDICAL CENTER	0255-2131-4609(MH111499)	93	242	488,581	
	COLD SPRING HARBOR LABORATORY	SUB 64090112 (MH109113)	93	242	400,456	
	COLUMBIA UNIVERSITY MEDICAL CENTER	008292	93	242	5,562	
	DANA-FARBER CANCER INSTITUTE	1229301	93	242	-266	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	DIGITAL ARTEFACTS, LLC	SUB 20162384 (MH099964)	93	242	215,940	
	DREXEL UNIVERSITY	800106B	93	242	429,406	
	DUKE UNIVERSITY	2035615	93	242	49,106	
	EMORY UNIVERSITY	SUB T674498(MH108826)	93	242	121,368	
	EMORY UNIVERSITY	SUB T860026 (MH110364)	93	242	4,486	
	EPIGEN BIOSCIENCES, INC.	SUB 20173585 (MH115529)	93	242	28,811	
	GEORGE WASHINGTON UNIVERSITY	16-M111	93	242	70,869	
	GEORGE WASHINGTON UNIVERSITY	16-M72	93	242	24,892	
	GEORGE WASHINGTON UNIVERSITY	13-S28	93	242	1,613	
	GEORGE WASHINGTON UNIVERSITY	17-M95	93	242	228,953	
	GEORGETOWN UNIVERSITY	SUB 411069 GR411012-UCSD (MH	93	242	88,009	
	GLADSTONE INSTITUTES	R2419-A	93	242	253,505	
	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE	834958	93	242	9,133	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	025528514609	93	242	50,498	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	73B60	93	242	52,992	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	896E0	93	242	957	
	JOHNS HOPKINS UNIVERSITY	2003097374:1	93	242	122,942	
	JOHNS HOPKINS UNIVERSITY	88452	93	242	5,236	
	JOHNS HOPKINS UNIVERSITY	SUB 2003199958(MH111516)	93	242	226,649	
	JOHNS HOPKINS UNIVERSITY	SUB TASK LDR03 (A1068632)	93	242	43,921	
	JOHNS HOPKINS UNIVERSITY	2002933836-CYC2	93	242	12,003	
	JOHNS HOPKINS UNIVERSITY	88416	93	242	-26,774	
	JOHNS HOPKINS UNIVERSITY	88420	93	242	-7,240	
	JOHNS HOPKINS UNIVERSITY	88477	93	242	-12,340	
	KAISER FOUNDATION HEALTH PLAN OF WASHINGTON	B5426	93	242	-2,298	
	KDAC THERAPEUTICS	KDAC-203835-CYC2	93	242	18,859	
	KENNEDY KRIEGER INSTITUTE	SUB NONE (MH085328)	93	242	7,388	
	MASSACHUSETTS GENERAL HOSPITAL	225144	93	242	44,166	
	MCLEAN HOSPITAL	SUB 401185 (MH109334)	93	242	190,886	
	MCLEAN HOSPITAL	401366-CYC1	93	242	39,830	
	NEW YORK UNIVERSITY	15-A1-00-002894-01	93	242	8,402	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	MAT1870-095181	93	242	99,151	
	OREGON HEALTH & SCIENCE UNIVERSITY	58340	93	242	13,122	
	PRINCETON UNIVERSITY	SUB0000130	93	242	64,191	
	RADY CHILDREN'S HOSPITAL RESEARCH CENTER	SUB NONE (MH104289)	93	242	3,464	
	RADY CHILDREN'S HOSPITAL RESEARCH CENTER	83097	93	242	-1,596	
	RADY CHILDREN'S HOSPITAL RESEARCH CENTER	83204	93	242	-2,664	
	RADY CHILDREN'S HOSPITAL RESEARCH CENTER	87361	93	242	-1,724	
	RADY CHILDREN'S HOSPITAL RESEARCH CENTER	87716	93	242	-3,533	
	RADY CHILDREN'S HOSPITAL-SAN DIEGO	SUB 1001923(MH111491)	93	242	19,667	
	RAND CORP	58263	93	242	91	
	RAND CORP	9920150037:04	93	242	143,923	
	RAND CORP	9920150088	93	242	100,501	
	RESEARCH FOUNDATION FOR MENTAL HYGIENE	122583:2	93	242	21,458	
	RESEARCH FOUNDATION FOR MENTAL HYGIENE	128309:2	93	242	420,896	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	0029	93	242	30,591	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	009727	93	242	16,033	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	0402	93	242	7,214	
	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB 20162859(MH111534)	93	242	274,851	
	SALK INSTITUTE FOR BIOLOGICAL STUDIES	88602	93	242	-6,425	
	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB P0244872(MH114831)	93	242	22,705	
	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB0230285(MH1127630)	93	242	20,682	
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 59273-12708-UCSD (MH1068	93	242	349,160	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	88069	93	242	-1,281	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	89650	93	242	-719	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	89651	93	242	-1,326	
	SOFIE BIOSCIENCES, INC	2R44MH097271-05	93	242	68,004	
	STANFORD UNIVERSITY	60870346-10342C	93	242	126,706	
	STANFORD UNIVERSITY	61350493-114917	93	242	2,191	
	STANFORD UNIVERSITY	60546456-108656:4	93	242	72,335	
	STANFORD UNIVERSITY	61494937-126516	93	242	17,196	
	STANFORD UNIVERSITY	61540206-121859	93	242	173,020	
	STANFORD UNIVERSITY	61593944-123692	93	242	177,808	
	STANFORD UNIVERSITY	61615363-49958:1	93	242	23,985	
	STANFORD UNIVERSITY	R01MH108319	93	242	98,862	
	STANFORD UNIVERSITY	SUB 60444056-108656 (MH10090	93	242	14,556	
	TEMPLE UNIVERSITY	259238	93	242	70,127	
	TEMPLE UNIVERSITY	360762-UCLA:6	93	242	46,883	
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-50366 (MH100175)	93	242	266,158	
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-50499 (MH103134)	93	242	57,955	
	THE SCRIPPS RESEARCH INSTITUTE	5-53359	93	242	145,946	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	THE UNIVERSITY OF ALABAMA (TUSCALOOSA)	000388010-017	93	242	6,566	
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000506211-002	93	242	153,981	
	THINK-NOW INC.	20153040	93	242	70,374	
	THINK-NOW INC.	79185	93	242	-37	
	UNIVERSITY OF CAPE TOWN	A125318	93	242	15,172	
	UNIVERSITY OF CHICAGO	SUB FP060924 (MH087214)	93	242	76,739	
	UNIVERSITY OF CHICAGO	FP056858-A:1	93	242	34,943	
	UNIVERSITY OF COLORADO DENVER	FY17.496.001	93	242	56,321	
	UNIVERSITY OF CONNECTICUT	136123	93	242	38,860	
	UNIVERSITY OF ILLINOIS	2013-02152-01-03-16011:4	93	242	12,500	
	UNIVERSITY OF ILLINOIS	SUB 2013-00362-02-00 (MH10104	93	242	6,400	
	UNIVERSITY OF ILLINOIS	16522	93	242	84,089	
	UNIVERSITY OF IOWA	SUB W000657638 (MH105527)	93	242	6,787	
	UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	3200001431-18-177	93	242	12,873	
	UNIVERSITY OF MARYLAND, BALTIMORE	7761	93	242	92,130	
	UNIVERSITY OF MASSACHUSETTS AMHERST	SUB 18-010032 B00(MH114277)	93	242	27,866	
	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	WA00482521/OSP2017067	93	242	6,486	
	UNIVERSITY OF MIAMI	SUB 663805 (MH100942)	93	242	266,080	
	UNIVERSITY OF MICHIGAN	82841	93	242	63,396	
	UNIVERSITY OF MICHIGAN	3003330099	93	242	7,333	
	UNIVERSITY OF MICHIGAN	3004476836	93	242	154,406	
	UNIVERSITY OF MINNESOTA	N006175601	93	242	9,592	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5104172	93	242	24,322	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5104173	93	242	338,250	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5106481	93	242	34,914	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5101902:2	93	242	33,391	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5107035	93	242	170,692	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	73A46	93	242	35,782	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	A7710	93	242	25	
	UNIVERSITY OF PENNSYLVANIA	562318	93	242	2,338	
	UNIVERSITY OF PENNSYLVANIA	SUB 569829(MH109382)	93	242	108,060	
	UNIVERSITY OF PENNSYLVANIA	SUB 569975 (MH11389)	93	242	61,584	
	UNIVERSITY OF PENNSYLVANIA	570052	93	242	8,314	
	UNIVERSITY OF PITTSBURGH	0030253 (127587-3)	93	242	18,225	
	UNIVERSITY OF PITTSBURGH	0049614 (127776-1):-1	93	242	639	
	UNIVERSITY OF PITTSBURGH	79655	93	242	-785	
	UNIVERSITY OF SOUTHERN CALIFORNIA	104020221-CYC1	93	242	505	
	UNIVERSITY OF SOUTHERN CALIFORNIA	44748603:03	93	242	93,398	
	UNIVERSITY OF SOUTHERN CALIFORNIA	90341158	93	242	93,600	
	UNIVERSITY OF SOUTHERN CALIFORNIA	90342607	93	242	89,047	
	UNIVERSITY OF SOUTHERN CALIFORNIA	93088027	93	242	15,269	
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 96417636 (MH114829)	93	242	354,995	
	UNIVERSITY OF WASHINGTON	UWSC8566	93	242	9,384	
	UNIVERSITY OF WASHINGTON	UWSC9388	93	242	44,655	
	UNIVERSITY OF WASHINGTON	UWSC10127	93	242	60,666	
	UNIVERSITY OF WISCONSIN-MADISON	SUB 647K544 (MH095984)	93	242	25,696	
	VANDERBILT UNIVERSITY	SUB 8077-020521 (MH106748)	93	242	5,809	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	SUB 09581001-319873 (MH10342	93	242	14,149	
	VIRGINIA COMMONWEALTH UNIVERSITY	PD302841-SC107123:1	93	242	36,081	
	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	R01MH110504	93	242	101,865	
	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-17-128 (MH111520)	93	242	407,972	
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-18-34	93	242	834,036	
	WAYNE STATE UNIVERSITY	WSU16124	93	242	9,633	
	WEST VIRGINIA UNIVERSITY	14716	93	242	17,391	
	YALE UNIVERSITY	1P50MH106934-01	93	242	677,212	
	YALE UNIVERSITY	GK000476 (CON-80000387):03	93	242	-4,037	
	YALE UNIVERSITY	GR100246(CON-80000778):4	93	242	740,503	
	YALE UNIVERSITY	GR100254(CON-80000783):2	93	242	225,757	
	YALE UNIVERSITY	M15A11970 (A10040) (MH977969	93	242	32,731	
	YALE UNIVERSITY	M15A12179 (A10304)	93	242	155,791	
	YALE UNIVERSITY	YALE_M14A11892	93	242	100,655	
	YALE UNIVERSITY	57514	93	242	-20,218	
	YALE UNIVERSITY	C15A12041 (A10750)	93	242	476,117	
	YALE UNIVERSITY	C16A12292(A10752)	93	242	29,242	
	HELUNA HEALTH	A129116	93	242	14,690	
	HELUNA HEALTH	A129224	93	242	14,248	
	HELUNA HEALTH	R01MH109320	93	242	83,117	
	KAISER PERMANENTE CENTER FOR HEALTH RESEARCH	R01MH106510	93	242	5,110	
	KAISER PERMANENTE WASHINGTON HEALTH RESEARCH INSTITUTE	SUB 2017126572 (MH106510)	93	242	12,232	
	KAISER PERMANENTE WASHINGTON HEALTH RESEARCH INSTITUTE	SUB MH92201-07-UCSD(MH09220	93	242	7,153	
	UNIVERSITY OF MISSOURI - ST. LOUIS	00056433-2	93	242	60,515	

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
DEPARTMENT OF HEALTH AND HUMAN SERVICES	VIRTUALLY BETTER, INC. COLUMBIA UNIVERSITY	1R42MH11277-01A11	93	242	30,829	
		4(GG012936-01)	93	242	184,035	
					14,844,399	85,015
	Passthrough/Partial Passthrough					
	CLARE FOUNDATION, INC.	20152532	93	243	36,408	
	RAND CORP	9920170049	93	243	85,400	
	SANTA BARBARA, COUNTY OF	BC18-121	93	243	67	
	HUNTER COLLEGE	41973-00-01	93	243	36,496	
					158,371	
	Passthrough/Partial Passthrough					
	CPWR - THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING	16-3-PS	93	262	14,731	
	CPWR - THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING	3001-609-01	93	262	42,314	
	CPWR - THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING	3001-613-01	93	262	237,199	
	CPWR - THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING	3001-614-01	93	262	130,106	91,870
	GEORGE WASHINGTON UNIVERSITY	16-M80	93	262	9,191	
	STANFORD UNIVERSITY	61405844-48844	93	262	93,459	
	UNIVERSITY OF IOWA	SUB W000794302 (OH010238)	93	262	11,673	
	UNIVERSITY OF WASHINGTON	UWSC8016	93	262	18,461	
	UNIVERSITY OF WISCONSIN-MADISON	707K545	93	262	113,170	
					670,304	91,870
	Passthrough/Partial Passthrough					
	HEALTH RESEARCH, INC.	5306-02	93	266	33,021	
					33,021	
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	B1548	93	268	13,694,561	
					13,694,561	
	Passthrough/Partial Passthrough					
	CASE WESTERN RESERVE UNIVERSITY	922-SUB-CYC1	93	273	4,387	
	CHILDREN'S HOSPITAL LOS ANGELES	79633	93	273	-5	
	CHILDREN'S HOSPITAL LOS ANGELES	RGF010036-B	93	273	49,930	
	CLEVELAND CLINIC FOUNDATION	SUB 733-SUB(NS100610)	93	273	186,403	
	FAST-TRACK DRUGS & BIOLOGICS, LLC	HHSN27500003-1061-NCIG6-UCL	93	273	-61,519	
	FLORIDA STATE UNIVERSITY	SUB R01979 (AA022891)	93	273	10,806	
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG209359-UCSF-01	93	273	7,937	
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG209393-UCSF-03	93	273	78,492	
	KENNEDY KRIEGER INSTITUTE	SUB NONE (AA024404)	93	273	10,963	
	OREGON HEALTH & SCIENCE UNIVERSITY	1007778_UCSF	93	273	63,045	
	OREGON HEALTH & SCIENCE UNIVERSITY	78987	93	273	-5,539	
	PUBLIC HEALTH INSTITUTE	1020572	93	273	46,991	
	RAND CORP	9920130157:03	93	273	67,232	
	RAND CORP	9920170096	93	273	2,570	
	SRI INTERNATIONAL	SUB PO17058 (AA021697)	93	273	51,192	
	SUNY DOWNSTATE MEDICAL CENTER	SUB 1009189 (AA008401)	93	273	516,199	
	UNIVERSITY OF CAPE TOWN	20145278	93	273	30,734	
	UNIVERSITY OF MINNESOTA	H004915501/R21AA024E	93	273	17,362	
	UNIVERSITY OF MISSOURI - KANSAS CITY	004428500036238	93	273	-1	
	UNIVERSITY OF SOUTHERN CALIFORNIA	64762794-1	93	273	-3,907	
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 48143238 (AA011999)	93	273	93,781	
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 70547055 (AA011999)	93	273	17,345	
	UNIVERSITY OF SOUTHERN CALIFORNIA	58445116:2	93	273	83,371	
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 93814100 (AA18663)	93	273	17,300	
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 98579671 (AA011999)	93	273	2,883	
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 98581287 (AA011999)	93	273	10,516	
	UNIVERSITY OF TEXAS-AUSTIN	UTA13-000879	93	273	-434	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HO 310664 (AA021908)	93	273	2,859	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MANDYAM (AA006420)	93	273	4,868	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MANDYAM (DA034140)	93	273	22,880	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	877A4	93	273	89,361	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MANDYAM (AA020098)	93	273	69,578	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MANDYAM 5-53027 (AA00644)	93	273	15,027	
	WAYNE STATE UNIVERSITY	SUB W5U14013 (AA022891)	93	273	1,415	
	CHILDREN'S NATIONAL HEALTH SYSTEM	SUB 30004155-01 (AA026106)	93	273	40,683	5,800
					1,544,705	5,800
	Passthrough/Partial Passthrough					
	AFASCI, INC.	79125	93	279	-462	

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF HEALTH AND HUMAN SERVICES	AMERICAN ACADEMY OF CHILD & ADOLESCENT PSYCHIATRY	20164307	93	279	135,041	
	AMERICAN ACADEMY OF CHILD & ADOLESCENT PSYCHIATRY	SUB 20163988 (DA000357)	93	279	128,443	
	AMERICAN ACADEMY OF CHILD & ADOLESCENT PSYCHIATRY	895DD	93	279	38	
	BOSTON MEDICAL CENTER CORPORATION	88021	93	279	-1,393	
	BOSTON MEDICAL CENTER CORPORATION	SUB 617070535601(DA045547)	93	279	33,075	
	BOSTON UNIVERSITY	4500001814	93	279	74,073	
	CHILDREN'S HOSPITAL LOS ANGELES	P2014-0049-1	93	279	7,268	
	CHILDREN'S HOSPITAL LOS ANGELES	RGF009209-A2-2	93	279	1,011,946	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	SUB 8902890618 (HD000850)	93	279	13,682	
	COLUMBIA UNIVERSITY	1 (GG011510)	93	279	266,292	
	COLUMBIA UNIVERSITY	1(GG008409)	93	279	26,440	
	COLUMBIA UNIVERSITY	1GG01154701	93	279	33,633	
	DUKE UNIVERSITY	SUB 2036646 (DA044571)	93	279	10,563	
	EMMES CORPORATION, THE	20154935	93	279	70,743	
	EMORY UNIVERSITY	SUB T232419 (DA036233)	93	279	24,117	
	FLORIDA INTERNATIONAL UNIVERSITY	800002647-01	93	279	5,904	
	FRED HUTCHINSON CANCER RESEARCH CENTER	0000923080	93	279	348,724	
	JOHNS HOPKINS UNIVERSITY	2003204584.5	93	279	86,732	
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG200022	93	279	25,700	
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG200340-UCSF-01	93	279	77,107	
	KDAC THERAPEUTICS	KDAC-203834-CYC2	93	279	21,021	
	MENTOR ON THE GO, LLC	SUB 20172340 (DA044905)	93	279	119,432	
	MICHIGAN STATE UNIVERSITY	RC100146UCSB	93	279	7,420	
	NANOCELLECT BIOMEDICAL, INC.	873GF	93	279	-430	
	NEW YORK UNIVERSITY	15-A0-S1-003671:3	93	279	69,967	
	NEW YORK UNIVERSITY	80235	93	279	-3,279	
	NORTHWESTERN UNIVERSITY	60044679 UCLA	93	279	30,744	
	NORTHWESTERN UNIVERSITY	60042994 UCSFCA	93	279	20,827	
	NORTHWESTERN UNIVERSITY	A8747	93	279	216	
	OREGON HEALTH & SCIENCE UNIVERSITY	1003544 UCI-CYC5	93	279	98,132	
	RAND CORP	SUB 9920170060 (R21DA044073)	93	279	8,568	
	RTI INTERNATIONAL	1R01DA038632-01	93	279	52,296	
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 59842-12858-UCSD (DA0417	93	279	395,101	
	STANFORD UNIVERSITY	60317762-26345-F	93	279	132,830	
	STOCHASTECH CORPORATION	SUB 20170731 (R44DA041760)	93	279	55,582	
	TEXAS TECHNICAL UNIVERSITY	21F123-01	93	279	1,708	
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-52431 (DA040458)	93	279	73,969	
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-52673 (DA041750)	93	279	60,819	
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-52953 (DA043268)	93	279	110,587	
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-53163(DA043799)	93	279	176,203	
	UNIVERSITY OF CHICAGO	FP066079-01-PR-CYC2	93	279	144,123	
	UNIVERSITY OF CHICAGO	FP095270-B:2	93	279	72,774	
	UNIVERSITY OF COLORADO DENVER	SUB NONE (DA035804)	93	279	344,401	
	UNIVERSITY OF GEORGIA	RR376-417/4945336-2	93	279	22,174	
	UNIVERSITY OF KANSAS/KU CENTER FOR RESEARCH, INC.	1R01DA03579-01A1	93	279	13,784	
	UNIVERSITY OF KANSAS/KU CENTER FOR RESEARCH, INC.	A8409	93	279	-1,625	
	UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	3200000907-17-173	93	279	4,391	
	UNIVERSITY OF MICHIGAN	SUB 3004429839 (U01DA043098)	93	279	188,332	
	UNIVERSITY OF MINNESOTA	B4233	93	279	-47,915	
	UNIVERSITY OF NEVADA, RENO	SUB UNR-16-07(DA038185)	93	279	17,621	
	UNIVERSITY OF NEW MEXICO	2R01DA016017-12	93	279	961,949	-9
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5050229	93	279	44,012	
	UNIVERSITY OF PENNSYLVANIA	80780	93	279	-1,537	
	UNIVERSITY OF PITTSBURGH	0046202-CYC2	93	279	51,235	
	UNIVERSITY OF SOUTHERN CALIFORNIA	87935113	93	279	83,003	
	UNIVERSITY OF SOUTHERN CALIFORNIA	90972930	93	279	79,998	
	UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS	GMO160819:3	93	279	735,651	
	UNIVERSITY OF WASHINGTON	LWSC8956	93	279	57,099	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MANDYAM (DA034140)	93	279	55,345	
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-17-355-CYC1	93	279	4,570	
	WAYNE STATE UNIVERSITY	88320	93	279	-47	
	WESTAT	82545	93	279	-4,918	
	WESTAT	82546	93	279	4,431	
	FORDHAM UNIVERSITY	FORD0035 (R25 DA031608)	93	279	5,412	
	FORDHAM UNIVERSITY	FORD0036 (R25 DA031608)	93	279	4,396	
	FORDHAM UNIVERSITY	FORD0037	93	279	4,140	
	HELUNA HEALTH	0391.0101	93	279	41,545	
	HUNTER COLLEGE	41996-A	93	279	10,748	
	ANTEANA THERAPEUTICS, INC.	ATI-202776-CYC1	93	279	354,411	
	AUTOMATE SCIENTIFIC, INC.	NIH/NIDA 1R41DA044788-01	93	279	28,928	
	INTERNATIONAL RETT SYNDROME FOUNDATION	SUB 20160918 (HD061222)	93	279	81,729	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES						7,169,539	-9
	Passthrough/Partial Passthrough						
	AMERICAN THROMBOSIS AND HEMOSTASIS NETWORK	SUB ATHN2015-ATHN1 EXTENSIO	93	283	1,909		
	ASSOCIATION OF SCHOOLS OF PUBLIC HEALTH	S5058	93	283	311,307	221,458	
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	16-10942	93	283	69,140		
	COMMUNITY ACTION PARTNERSHIP OF ORANGE COUNTY	CAPOC -201561-CYC3	93	283	83,064		
	HARVARD PILGRIM HEALTH CARE	78142	93	283	120		
	HARVARD PILGRIM HEALTH CARE	HPHC-205795-CYC3	93	283	144,774		
	HELLUNA HEALTH	235.013.920	93	283	55,130		
	CHILDREN'S HOSPITAL OF ORANGE COUNTY	83023	93	283	-5,568		
					659,876	221,458	
	Passthrough/Partial Passthrough						
	BOSTON UNIVERSITY	4500002154	93	286	17,482		
	COLORADO STATE UNIVERSITY SYSTEM (SYSTEM PARENT CODE)	G-00068-1-CYC4	93	286	48,588		
	COLUMBIA UNIVERSITY	1(GG010793-03):1	93	286	33,530		
	CORNELL UNIVERSITY	16040595	93	286	45,817		
	EMORY UNIVERSITY	T494666	93	286	149,718		
	GE GLOBAL RESEARCH	400161117	93	286	-7,448		
	INDIANA UNIVERSITY	SUB BL-4629710(EB023685)	93	286	206,743		
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B620867	93	286	61,754		
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	65002243:4	93	286	7,207		
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	UNI-232985	93	286	122,658		
	NANOCOLLECT BIOMEDICAL, INC.	8728A	93	286	-3,913		
	NEUROENABLING TECHNOLOGIES, INC.	79016	93	286	-24,156		
	NORTHEASTERN UNIVERSITY	500562-78050	93	286	24,552		
	NORTHWESTERN UNIVERSITY	SUB SP0030422-PROJ0008084 (E)	93	286	70,868		
	NORTHWESTERN UNIVERSITY	SP0039982-PROJ0011251	93	286	56,814		
	RUSH UNIVERSITY MEDICAL CENTER	87768	93	286	17		
	STANFORD UNIVERSITY	26590470-44290-A	93	286	150,498		
	STANFORD UNIVERSITY	60664402-113972	93	286	383,982		
	STANFORD UNIVERSITY	SUB 61456675-125287 (EB018302)	93	286	65,692		
	UNIVERSITY OF ARIZONA	345325-CYC1	93	286	84,952		
	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	WA00433492/OSP2016195	93	286	4,539		
	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	WA00433618/OSP2016203	93	286	5,642		
	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	SUB OSP2016194 (EB0119936)	93	286	169,373		
	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	WA00433491/OSP2016197-CYC2	93	286	38,617		
	UNIVERSITY OF MEMPHIS	20142301	93	286	138,298		
	UNIVERSITY OF MEMPHIS	A124520	93	286	186,821		
	UNIVERSITY OF MEMPHIS	SUB NONE (EB020404)	93	286	71,470		
	UNIVERSITY OF MICHIGAN	3003598082-CYC3	93	286	256,437		
	YALE UNIVERSITY	GR100859 (CON-80000939)	93	286	42,398		
					2,408,950		
	Passthrough/Partial Passthrough						
	HEALTH RESEARCH, INC.	1U81HP27843-01-03	93	300	30,876		
	HEALTH RESEARCH, INC.	4925-04	93	300	99,391		
					130,267		
	Passthrough/Partial Passthrough						
	ALTAMED HEALTH SERVICES CORPORATION	5NU58DP005740-02-00	93	304	24,197		
	MANDELA MARKETPLACE INCORPORATED	82818	93	304	30,304		
					54,501		
	Passthrough/Partial Passthrough						
	CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE	20155050	93	307	32,087		
	CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE	20164501	93	307	144,725		
	MOREHOUSE COLLEGE	001UCLA16	93	307	116,078		
	PACIFIC INSTITUTE FOR RESEARCH AND EVALUATION	SUB 0784 (MD010292)	93	307	17,166		
	RAND CORP	9920140145:04	93	307	213,716		
	RAND CORP	9920160089:02	93	307	75,511		
	RAND CORP	9920180006	93	307	13,289		
	SAINT BARNABAS MEDICAL CENTER	UCLA1	93	307	120,088		
	UNIVERSITY OF PITTSBURGH	0047269 (126836-1):2	93	307	73,761		
	UNIVERSITY OF PITTSBURGH	0056157 (130212-2)	93	307	74,792		
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	858FB	93	307	-2,709		
	ALBERT EINSTEIN COLLEGE OF MEDICINE INC.	SUB:31106A(MD011389)	93	307	110,170		
	MEHARRY MEDICAL COLLEGE	170406MFL060-CYC1	93	307	21,806		
	NEW YORK UNIVERSITY SCHOOL OF MEDICINE	17-A0-00-007341-01-CYC1	93	307	8,172		
	UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER	RF00115-2018-0131	93	307	5,141		

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF HEALTH AND HUMAN SERVICES					1,023,793	
	Passthrough/Partial Passthrough					
	BRENTWOOD BIOMEDICAL RESEARCH INSTITUTE	80549	93	310		2,474
	BROAD INSTITUTE INC.	SUB 5230123-5500000792 (DK10	93	310		-19,851
	BROAD INSTITUTE INC.	5230123-5500000600:3	93	310		25,000
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	89160	93	310		-8
	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	1RL5MD009599-01	93	310		370,554
	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	9S16-0015	93	310		579,362
	COLUMBIA UNIVERSITY	1(GG011868-01)	93	310		136,294
	DREXEL UNIVERSITY	800059	93	310		178,396
	DREXEL UNIVERSITY	800060	93	310		30,655
	DREXEL UNIVERSITY	77B76	93	310		126,044
	DREXEL UNIVERSITY	80B03	93	310		12,368
	HARVARD UNIVERSITY	A00-2207-005	93	310		64,404
	INDIANA UNIVERSITY	BL-4624909-UCI-CYC2	93	310		241,848
	LUDWIG INSTITUTE FOR CANCER RESEARCH	SUB 242301-05003A (DK107977, ;	93	310		398,703
	LUDWIG INSTITUTE FOR CANCER RESEARCH	SUB 242301-05003B (DK107977)	93	310		297,737
	MASSACHUSETTS GENERAL HOSPITAL	1U01MH105027-01	93	310		-3,332
	MASSACHUSETTS GENERAL HOSPITAL	SUB 231406 (TR000931)	93	310		143,887
	MEDICAL UNIVERSITY OF SOUTH CAROLINA	MUSC16-089-8C267-CYC1	93	310		32,011
	MEMORIAL HOSPITAL OF RHODE ISLAND	5001311-MUELLER	93	310		248,878
	NEW YORK UNIVERSITY	16-A0-00-006256-0 1	93	310		68,566
	NEW YORK UNIVERSITY	F0018-05-CYC1	93	310		305,475
	RAND CORP	9920150065:03	93	310		14,763
	RESEARCH FOUNDATION FOR STATE UNIVERSITY OF NEW YORK, THE	SUB R1112800(CA221244)	93	310		30,037
	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB NONE (EB021247)	93	310		220,594
	STANFORD UNIVERSITY	60392112-109837-A:4	93	310		71,136
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-52994 (OD023176)	93	310		134,014
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-53190 (OD023176)	93	310		122,850
	UNIVERSITY OF CHICAGO	A8174	93	310		-70
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	UG30D023313-01	93	310		-4,665
	UNIVERSITY OF CONNECTICUT	UCHC6-61884479-CYC3	93	310		71,817
	UNIVERSITY OF ILLINOIS	084337-1604B	93	310		788,859
	UNIVERSITY OF IOWA	SUB W001049133 (AG055133)	93	310		6,291
	UNIVERSITY OF MASSACHUSETTS AMHERST	WA00363865/OSP2016101	93	310		116,989
	UNIVERSITY OF NEW MEXICO	3RBL1	93	310		170,771
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5050136	93	310		7,595
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5108560	93	310		370,609
	UNIVERSITY OF ROCHESTER	416985-G/UR FAO GR510571-CYC	93	310		647,935
	UNIVERSITY OF SOUTHERN CALIFORNIA	68588929	93	310		81,560
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 70853595 (TR000967)	93	310		9,824
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 71082591 (TR000967)	93	310		19,241
	UNIVERSITY OF SOUTHERN CALIFORNIA	64860970:03	93	310		4,905
	UNIVERSITY OF SOUTHERN CALIFORNIA	89820331	93	310		156,418
	UNIVERSITY OF WASHINGTON	UWSC9402	93	310		406,359
	UNIVERSITY OF WISCONSIN-MADISON	708K396	93	310		328,331
	YESHIVA UNIVERSITY	311048	93	310		386,592
	YESHIVA UNIVERSITY	311117	93	310		1,712
	YESHIVA UNIVERSITY	C0650	93	310		145,976
	SAGE BIONETWORKS	SUB AOU2018UCSD (OD023176)	93	310		50,664
						7,600,572
	Passthrough/Partial Passthrough					
	BRIGHAM AND WOMEN'S HOSPITAL	U19MH113201	93	313		37,298
						37,298
	Passthrough/Partial Passthrough					
	HELUNA HEALTH	0008.0106	93	317		24,811
	HELUNA HEALTH	44418	93	317		17,873
						42,684
	Passthrough/Partial Passthrough					
	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	WA00510787/OSP2017126	93	318		29,701
						29,701
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	1510403	93	323		482,120
	HELUNA HEALTH	201701024	93	323		109,027
	HELUNA HEALTH	3U50CK000410	93	323		2,616
	HELUNA HEALTH	SPO#16150	93	323		39,489

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF HEALTH AND HUMAN SERVICES					633,252	
	Passthrough/Partial Passthrough					
	UNIVERSITY OF MICHIGAN	3004796644	93	342		15,134
						15,134
	Passthrough/Partial Passthrough					
	CAIRN BIOSCIENCES, INC	20162958	93	350		22,172
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001170248	93	350		279,201
	CHILDREN'S HOSPITAL LOS ANGELES	SUP1601	93	350		688
	HARVARD UNIVERSITY	149749.5104143.4474	93	350		36,945
	INSTITUTE FOR SYSTEMS BIOLOGY	SUB 2016.0004(10T3TR002026-0	93	350		657,610
	J. CRAIG VENTER INSTITUTE	JCVI-16-005-CYC1	93	350		176,161
	J. CRAIG VENTER INSTITUTE	JCVI-16-007 (U01TR001801)	93	350		67,591
	J. CRAIG VENTER INSTITUTE	JCVI-16-008	93	350		76,968
	J. CRAIG VENTER INSTITUTE	SUB JCVI-16-006(TR001801)	93	350		72,061
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	80890	93	350		41,800
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	SUB UCA-231278 (TR002062)	93	350		87,339
	STANFORD UNIVERSITY	61707916-11017C	93	350		17,159
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000508606-015	93	350		58,504
	TUFTS UNIVERSITY	HH9120	93	350		35,856
	UNIVERSITY OF CINCINNATI	009904-005	93	350		230,715
	UNIVERSITY OF PITTSBURGH	0055353 (128885-18)	93	350		33,528
	UNIVERSITY OF PITTSBURGH	0055353 (128885-20)	93	350		39,635
	UNIVERSITY OF PITTSBURGH	SUB 0055353 (128885-16) (TR001	93	350		218,977
	UNIVERSITY OF PITTSBURGH	0055353 (129324-22)-CYC1	93	350		38,541
	UNIVERSITY OF PITTSBURGH	0055353 (129324-23)	93	350		39,133
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-17-248-CYC1	93	350		11,784
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-17-88-CYC5	93	350		9,368
	COLLABORATIONS PHARMACEUTICALS, INC.	SUB 20171862(TR002084)	93	350		187,081
	PHENVOGEN LLC	SUB 20163857 (TR001908)	93	350		53,026
	SCRIPPS TRANSLATIONAL SCIENCE INSTITUTE	SUB 2018-4KL (TR001114)	93	350		22,363
						2,514,206
	Passthrough/Partial Passthrough					
	DUKE UNIVERSITY	K01OD024877	93	351		153,801
	EMORY UNIVERSITY	T688100	93	351		83,314
	JACKSON LABORATORY, THE	SUB NONE (OD020351)	93	351		18,544
	JACKSON LABORATORY, THE	TBI	93	351		18,874
	MASSACHUSETTS GENERAL HOSPITAL	224641	93	351		128,739
	MICHIGAN STATE UNIVERSITY	RC104007UCD	93	351		18,299
	OREGON HEALTH & SCIENCE UNIVERSITY	32887	93	351		432
	UNIVERSITY OF FLORIDA	UFDSP00012005	93	351		22,315
	UNIVERSITY OF KANSAS/KU CENTER FOR RESEARCH, INC.	FY2016-054-CYC3	93	351		201,564
						645,882
	Passthrough/Partial Passthrough					
	SOFIE BIOSCIENCES, INC	2R44CA216539-02	93	353		64,923
	UNIVERSITY OF MARYLAND	SUB 54547-Z0078201(CA225291)	93	353		88,821
						153,744
	Passthrough/Partial Passthrough					
	NATIONAL UNIVERSITY	202102-001-FY2017	93	359		60,308
						60,308
	Passthrough/Partial Passthrough					
	MICROBEDX INC.	210618-CYC1	93	360		65,466
						65,466
	Passthrough/Partial Passthrough					
	BAYLOR COLLEGE OF MEDICINE	57023	93	361		-27
	DASCENA, INC.	A129186	93	361		20,280
	DASCENA, INC.	042859	93	361		16,537
	DUKE UNIVERSITY	2035445	93	361		232,579
	DUKE UNIVERSITY	2035667	93	361		-139
	DUKE UNIVERSITY	SUB 2036478 (NR014637)	93	361		21,573
	HARVARD UNIVERSITY	1215005	93	361		47
	INDIANA UNIVERSITY	IN467935UCI-CYC1	93	361		13,318
	KENT STATE UNIVERSITY	403016UCD	93	361		59,279
	KENT STATE UNIVERSITY	63514	93	361		-274
	NEW YORK UNIVERSITY	F7604-01	93	361		38,556

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			Prefix	Extension	Federal Expenditures		
DEPARTMENT OF HEALTH AND HUMAN SERVICES	RAND CORP	9920170074	93	361	33,338		
	UNIVERSITY OF COLORADO DENVER	FY17.782.004	93	361	230,628		
	UNIVERSITY OF COLORADO DENVER	SUB FY17.105.002 (1283501)	93	361	15,594		
	UNIVERSITY OF FLORIDA	UFDS00011715	93	361	756		
	UNIVERSITY OF MICHIGAN	3004518092	93	361	62,423		
	UNIVERSITY OF PITTSBURGH	0050074 (128868-2)	93	361	137,741		
	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-14-85 (NR014449)	93	361	7,944		
	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-16-302 (NR015738)	93	361	-1,537		
					888,616		
	Passthrough/Partial Passthrough	CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION	37B31	93	365	19,059	
						19,059	
	Passthrough/Partial Passthrough	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-50506 (TR001114)	93	371	129,352	
						129,352	
	Passthrough/Partial Passthrough	BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	51974 2001759 669305-CYC1	93	393	27,448	
		BODIMOJO	R43CA206666	93	393	34,660	
		BRIGHAM AND WOMEN'S HOSPITAL	80502	93	393	-30	
		BRIGHAM AND WOMEN'S HOSPITAL	B0538	93	393	-815	
		CANCER PREVENTION INSTITUTE OF CALIFORNIA	HHSN26100007-UCSF	93	393	103,155	
		CASE WESTERN RESERVE UNIVERSITY	RES511397	93	393	74,462	
		CEDARS-SINAI MEDICAL CENTER	1291278.1	93	393	97,110	
	CEDARS-SINAI MEDICAL CENTER	20171646	93	393	70,429		
	CHILDREN'S HOSPITAL OF PHILADELPHIA	321072	93	393	124,261		
	CHILDREN'S HOSPITAL OF PHILADELPHIA	88309	93	393	43,281		
	CHILDREN'S MERCY HOSPITAL, THE	SUB 16-0002 (CA194492)	93	393	53,319		
	CITY OF HOPE	SUB 51974.2001759.669301 (CA1	93	393	587,089		
	CITY OF HOPE	51089.2000553.669201	93	393	224,510		
	CITY OF HOPE	78595	93	393	-26,440		
	CITY OF HOPE	78601	93	393	236		
	DANA-FARBER CANCER INSTITUTE	1286601	93	393	118,769		
	DUKE UNIVERSITY	2035765	93	393	35,539		
	FRED HUTCHINSON CANCER RESEARCH CENTER	0000845112	93	393	44,565		
	FRED HUTCHINSON CANCER RESEARCH CENTER	R01CA183570	93	393	29,419		
	GEORGETOWN UNIVERSITY	411842_GR410064-UCLA:2	93	393	17,716		
	GEORGETOWN UNIVERSITY	R01CA207361	93	393	6,228		
	HARVARD PILGRIM HEALTH CARE	AH000632	93	393	17,398		
	HARVARD UNIVERSITY	114226-5108097	93	393	21,548		
	JOHNS HOPKINS UNIVERSITY	2002945254	93	393	43,196		
	KAISER FOUNDATION HEALTH PLAN OF WASHINGTON	CA154292-UCSF	93	393	-1,979	1,995	
	LEIDOS BIOMEDICAL RESEARCH, INC.	16X164	93	393	95,379		
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	USF-225625	93	393	143,719		
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	A122238	93	393	146,777		
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	R01CA154517/6322731E	93	393	13,735		
	NATIONAL DEVELOPMENT AND RESEARCH INSTITUTES, INC.	A7598	93	393	4		
	NORTHWESTERN UNIVERSITY	1R01CA16404101	93	393	-3		
	NORTHWESTERN UNIVERSITY	60034672UCD	93	393	30,538		
	NORTHWESTERN UNIVERSITY	SUB 60037274 UCSD (CA186878)	93	393	62,740		
	NORTHWESTERN UNIVERSITY	60037274 UCLA:A03	93	393	72,097		
	NORTHWESTERN UNIVERSITY	6004 72 62 U C SF	93	393	63,317		
	PROTEIN SCIENCES CORP.	3U44CA167593-03S1	93	393	31,644		
	RADIABEAM TECHNOLOGIES, LLC	2LRR	93	393	71,029		
	RADIABEAM TECHNOLOGIES, LLC	DE-SC0017687	93	393	7,584		
	RESEARCH FOUNDATION FOR STATE UNIVERSITY OF NEW YORK, THE	1784	93	393	60,503		
	ROCKEFELLER UNIVERSITY	R01CA204127	93	393	41,966		
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	59856-12856-UCSF	93	393	347,170		
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 60131-12957-UCSD (CA2182)	93	393	109,458		
	THOMAS JEFFERSON UNIVERSITY	SUB 080-30000-S27901 (CA21552)	93	393	26,578		
	UNIVERSITY OF ARIZONA	306440.1	93	393	280,075		
	UNIVERSITY OF ARIZONA	R01CA092596	93	393	94,593		
	UNIVERSITY OF COLORADO DENVER	FY18.900.001	93	393	10,612		
	UNIVERSITY OF HAWAII AT MANOA	KA0084	93	393	-7,319		
	UNIVERSITY OF HAWAII AT MANOA	KA1363	93	393	51,556		
	UNIVERSITY OF HAWAII AT MANOA	KA1369	93	393	32,045		
	UNIVERSITY OF HAWAII AT MANOA	KA1374	93	393	67,361		
	UNIVERSITY OF HOUSTON	R-15-0034:2	93	393	7,610		
	UNIVERSITY OF IOWA	1001588781:01	93	393	89,732		

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			Prefix	Extension	Federal Expenditures		
DEPARTMENT OF HEALTH AND HUMAN SERVICES	UNIVERSITY OF KANSAS/KU CENTER FOR RESEARCH, INC.	FY2014-080	93	393	66,992		
	UNIVERSITY OF MICHIGAN	3004171785	93	393	30,776		
	UNIVERSITY OF MINNESOTA	P006826901	93	393	29,565		
	UNIVERSITY OF NEW MEXICO	3RB58	93	393	29,475		
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	R01CA197205	93	393	9,908		
	UNIVERSITY OF PENNSYLVANIA	569853	93	393	-6,313		
	UNIVERSITY OF PENNSYLVANIA	SUB 568559 (CA202699)	93	393	149,096		
	UNIVERSITY OF ROCHESTER	416055-G	93	393	85,930		
	UNIVERSITY OF SOUTHERN CALIFORNIA	100794433	93	393	14,986		
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	3000931350	93	393	17,516		
	UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER	00003027	93	393	12,627		
	UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER	SUB 00001664 (CA177914)	93	393	488		
	UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER	SUB 00003030 (CA186566)	93	393	15,437		
	UNIVERSITY OF UTAH	10035205	93	393	95,315		
	UNIVERSITY OF UTAH	10042691-00	93	393	108,688		
	UNIVERSITY OF WASHINGTON	UWC8242	93	393	125,525		
	UNIVERSITY OF WASHINGTON	UWSC9125	93	393	6,048		
	UNIVERSITY OF WASHINGTON	UWSC9237	93	393	113,748		
	WAKE FOREST UNIVERSITY	WFUHS 114040:1	93	393	55,927		
	WAKE FOREST UNIVERSITY HEALTH SCIENCES	114040	93	393	45,258		
	WASHINGTON STATE UNIVERSITY	123700-G003622-CYC2	93	393	30,187		
					4,732,753	1,995	
		Passthrough/Partial Passthrough					
		AMERICAN COLLEGE OF RADIOLOGY	88797	93	394	8,582	
		BAYLOR COLLEGE OF MEDICINE	7000000364	93	394	122,757	
		BLUENOVO BIOSYSTEMS, INC.	SUB CA214386	93	394	48,620	
		BOSTON UNIVERSITY	4500002273	93	394	109,475	
		BOSTON UNIVERSITY	4500002285	93	394	421,622	
		BROWN UNIVERSITY	SUB 00001163 (CA159954)	93	394	40,140	
		CANCER TARGETED TECHNOLOGY	A126694	93	394	77,515	
		CASE WESTERN RESERVE UNIVERSITY	SUB RES512506 (CA198892)	93	394	186,773	
		CEDARS-SINAI MEDICAL CENTER	SUB 0001402018 (CA218526)	93	394	41,357	
		DREXEL UNIVERSITY	89702	93	394	-1,034	
		FRED HUTCHINSON CANCER RESEARCH CENTER	0000917464	93	394	116,008	
		JOHNS HOPKINS UNIVERSITY	2002335877:2	93	394	2,493	
	MEMORIAL SLOAN-KETTERING CANCER CENTER	B0134	93	394	241		
	MEMORIAL SLOAN-KETTERING CANCER CENTER	BD516943	93	394	59,652		
	NRG ONCOLOGY	NRG BSB - UCSF YR 1	93	394	666,261		
	OMNIOX INC.	A17-0353	93	394	329,615		
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 59971-12897-UCSD (CA2145:1)	93	394	22,338		
	SPECTRAL MOLECULAR IMAGING, INC.	SMI-103747-CYC4	93	394	2,200		
	SRI INTERNATIONAL	R01CA214515	93	394	37,194		
	STANFORD UNIVERSITY	61676311-116575	93	394	13,718		
	STANFORD UNIVERSITY	R01CA227687	93	394	7,464		
	THOMAS JEFFERSON UNIVERSITY	SUB 080-30000-S22601(CA19430:1)	93	394	122,772		
	UNIVERSITY OF MICHIGAN	3003732467	93	394	111,070		
	UNIVERSITY OF MINNESOTA	SUB P006911701 (CA214550)	93	394	62,676		
	UNIVERSITY OF PENNSYLVANIA	568870	93	394	28,853		
	UNIVERSITY OF PITTSBURGH	0053387 (129061-3)	93	394	8,853		
	UNIVERSITY OF PITTSBURGH	0059566 (130769-2)	93	394	93,801		
	UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER	00003874	93	394	44,674		
	UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER	00005316	93	394	318,842		
	WEINBERG MEDICAL PHYSICS LLC	78669	93	394	-57,832		
					3,046,700		
	Passthrough/Partial Passthrough						
	ABREOS BIOSCIENCES	79639	93	395	-349		
	ACCELERATED MEDICAL DIAGNOSTICS, LLC	A18-1262	93	395	65,892		
	AMERICAN COLLEGE OF RADIOLOGY	82594	93	395	10,858		
	CELLSIGHT TECHNOLOGIES	A121974	93	395	26,806		
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	SUB RSTFD0000659211 (CA10946)	93	395	475,775		
	CHILDREN'S HOSPITAL LOS ANGELES	2004-05	93	395	17,639		
	CHILDREN'S HOSPITAL LOS ANGELES	P2014-0022_UCLA5:4	93	395	45,007		
	CHILDREN'S HOSPITAL LOS ANGELES	RGF011025-A	93	395	154,545		
	CHILDREN'S HOSPITAL LOS ANGELES	SUB PBMTC1401 (CA181050)	93	395	681		
	CHILDREN'S HOSPITAL OF PHILADELPHIA	1U10CA180886-01	93	395	12,899		
	CHILDREN'S HOSPITAL OF PHILADELPHIA	1UG1CA189955-01	93	395	25,803		
	CHILDREN'S HOSPITAL OF PHILADELPHIA	201503563	93	395	21,414		
	CHILDREN'S HOSPITAL OF PHILADELPHIA	20150682	93	395	120		
	CHILDREN'S HOSPITAL OF PHILADELPHIA	8567G	93	395	-243		

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF HEALTH AND HUMAN SERVICES	CHILDREN'S HOSPITAL OF PHILADELPHIA	88569	93	395	-769	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	88748	93	395	-21,814	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	89236	93	395	-11,238	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	89464	93	395	3,241	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	9500100715	93	395	52,504	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	961551-RSUB	93	395	1,572	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	A121763	93	395	22,499	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	A128833	93	395	26,435	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	B4355	93	395	-4,429	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	PRM:UM1CA097452	93	395	24,902	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	SUB FP13560 (CA097452)	93	395	-843	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	SUB UG1CA189955	93	395	11,325	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	UCSF#A122092	93	395	6,500	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	UCSF#A124469	93	395	20,843	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	UCSF#A124960	93	395	54,726	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	8731F	93	395	2,424	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	89293	93	395	50,968	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	SUB FP:FP00021561_SUB36_01 ((93	395	1,057	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	U10CA180886	93	395	70,659	
	CITY OF HOPE	51183.2000123.669399	93	395	113,709	
	CITY OF HOPE	52284.2002184.669302	93	395	68,978	
	COLUMBIA UNIVERSITY	89131	93	395	-724	
	CORNELL UNIVERSITY	76088-10742	93	395	198,025	
	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION INC.	58627	93	395	2,219	
	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION INC.	B5197	93	395	60	
	EMMES CORPORATION, THE	89538	93	395	204	
	EMMES CORPORATION, THE	B1178	93	395	-146,186	
	FRED HUTCHINSON CANCER RESEARCH CENTER	0000852801	93	395	-14,862	
	FRED HUTCHINSON CANCER RESEARCH CENTER	SUB 000821830 (CA154967)	93	395	11,134	
	GYNECOLOGIC ONCOLOGY GROUP	78065	93	395	159,440	
	GYNECOLOGIC ONCOLOGY GROUP	GOG-101462-CYC5	93	395	40,196	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	SUB 0255-1071-4609 (CA 195164)	93	395	21,150	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	SUB 02556-0601-4609 (CA193523)	93	395	12,226	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	SUB 0255-3141-4609 (1R01CA207	93	395	47,642	
	INTEGRATED SENSORS, LLC	A16-0372-001	93	395	108,226	
	JOHN WAYNE INSTITUTE FOR CANCER TREATMENT AND RESEARCH	FARIES-15-05	93	395	103,966	
	JOHN WAYNE INSTITUTE FOR CANCER TREATMENT AND RESEARCH	FARIES-15-06	93	395	-67,069	
	JOHNS HOPKINS UNIVERSITY	2002439005	93	395	-739	
	JOHNS HOPKINS UNIVERSITY	ABTC 1301	93	395	2,774	
	JOHNS HOPKINS UNIVERSITY	ABTC1302	93	395	8,313	
	JOHNS HOPKINS UNIVERSITY	2002439042	93	395	11,195	
	JOHNS HOPKINS UNIVERSITY	80476	93	395	2,199	
	JOHNS HOPKINS UNIVERSITY	81056	93	395	770	
	LEIDOS, INC.	SUB 13XS025 (HHSN2612008000C	93	395	10,013	
	LOMA LINDA UNIVERSITY (INCL NATL MEDICAL TECHNOLOGY TESTBED, INC.)	B9928	93	395	-9,887	
	MASSACHUSETTS GENERAL HOSPITAL	226035	93	395	185,839	
	MASSACHUSETTS GENERAL HOSPITAL	B1836	93	395	-2,190	-1,382
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710004107	93	395	170,582	
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	SUB MCC-194321 (CA189823)	93	395	15,032	
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	SUB SAD-149321 (CA189823)	93	395	62,593	
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	CSF-194321	93	395	77,727	
	MEDICAL COLLEGE OF WISCONSIN	R01CA184798	93	395	15,397	
	MEMORIAL SLOAN-KETTERING CANCER CENTER	BD517413C-CYC1	93	395	8,090	
	MEMORIAL SLOAN-KETTERING CANCER CENTER	229411-CYC3	93	395	232	
	NEW YORK UNIVERSITY	F7618-02-S:02	93	395	246,711	
	NRG ONCOLOGY	BIQSF YR1-UCSF	93	395	-10,930	
	NRG ONCOLOGY	NRG ONCOLOGY	93	395	74,811	21,950
	NRG ONCOLOGY	NRG-201385-CYC1	93	395	25,601	
	NRG ONCOLOGY	BN003-UCSF-JORDAN	93	395	1,817	
	NRG ONCOLOGY	GOG0237-UCI-02-CYC2	93	395	150,359	
	NRG ONCOLOGY	TEWARI - YR. 4-CYC1	93	395	9,784	
	NRG ONCOLOGY	UCAI-YR.1-CYC4	93	395	9,465	
	NSABP FOUNDATION, INC.	TFED41-137	93	395	2,819	
	OLD DOMINION UNIVERSITY RESEARCH FOUNDATION	15-187-100516-010	93	395	27,488	
	OREGON HEALTH & SCIENCE UNIVERSITY	1004086001UCDAVIS	93	395	17,544	
	OREGON HEALTH & SCIENCE UNIVERSITY	21B21	93	395	62,510	
	OREGON HEALTH & SCIENCE UNIVERSITY	SUB 9009627 UCSD (CA180888)	93	395	-15,379	
	OREGON HEALTH & SCIENCE UNIVERSITY	SWOG-201304-CYC3	93	395	48,012	
	OREGON HEALTH & SCIENCE UNIVERSITY	1005019_UCIRVINE-CYC3	93	395	39,157	
	OREGON HEALTH & SCIENCE UNIVERSITY	9009627	93	395	10,375	
	OREGON HEALTH & SCIENCE UNIVERSITY	9009627_UCDAVIS_MACK	93	395	14,373	

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients	
DEPARTMENT OF HEALTH AND HUMAN SERVICES	OREGON HEALTH & SCIENCE UNIVERSITY	9009627_UCIRVINE-CYC3	93	395	94,038		
	OREGON HEALTH & SCIENCE UNIVERSITY	9009627_UCLA:3	93	395	32,263		
	OREGON HEALTH & SCIENCE UNIVERSITY	SWOG-201304-1-CYC4	93	395	58,192		
	OREGON HEALTH & SCIENCE UNIVERSITY	U10CA180888	93	395	69,251		
	PANDOMEDX	201603988	93	395	21,105		
	PPD INC.	78994	93	395	-30,955		
	SAINT LOUIS UNIVERSITY	89337	93	395	-20		
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	59510-12770-UCSD (CA198103)	93	395	123,709		
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 59953-12989 (CA128814)	93	395	161,733		
	SIGNALRX PHARMACEUTICALS, INC	SUB 20163117 (CA206859)	93	395	12,235		
	SIGNALRX PHARMACEUTICALS, INC	SUB 20170710 (CA192656)	93	395	88,088		
	ST. JUDE CHILDREN'S RESEARCH HOSPITAL	111287230-7744212	93	395	137,289		
	STANFORD UNIVERSITY	60958489-117119:2	93	395	36,278		
	STANFORD UNIVERSITY	61251710-118307	93	395	191,656		
	STANFORD UNIVERSITY	61251750-118307	93	395	58,350		
	STANFORD UNIVERSITY	61658251-117899	93	395	24,702		
	SWOG	20154355	93	395	17,351		
	SWOG	20161228	93	395	22,506		
	THE UNIVERSITY OF ALABAMA (TUSCALOOSA)	SUB 000515449 (CA189823)	93	395	4,960		
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000508437-005:A02	93	395	3,190		
	UNIVERSITY OF ARKANSAS, FAYETTEVILLE	51758	93	395	329,682		
	UNIVERSITY OF FLORIDA	UFDSP00011465	93	395	63,425		
	UNIVERSITY OF MARYLAND	1600557:1	93	395	-1,532		
	UNIVERSITY OF MINNESOTA	N005494302	93	395	42,682		
	UNIVERSITY OF MINNESOTA	SUB H005023201 (CA203348)	93	395	132,130		
	UNIVERSITY OF NEVADA, LAS VEGAS/UNLV RESEARCH FOUNDATION	17-22AY-01-CYC1	93	395	241,857		
	UNIVERSITY OF PITTSBURGH	5R01CA178766-03	93	395	12,059		
	UNIVERSITY OF PITTSBURGH	0048529(127109-1)	93	395	20,792		
	UNIVERSITY OF PITTSBURGH	0049527(127522-1)	93	395	168,985		
	UNIVERSITY OF SOUTHERN CALIFORNIA	86620293:1	93	395	53,191		
	UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS	A18-0911-001	93	395	11,687		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	82165	93	395	-4,522		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA CALIFANO (A204264)	93	395	7,442		
	YALE UNIVERSITY	M16A12481(A10651)	93	395	20,122		
	YESHIVA UNIVERSITY	310635	93	395	44,951		
	ZONEONE PHARMA, INC.	B5631	93	395	-3		
	CURESEARCH FOR CHILDREN'S CANCER	85937	93	395	-2,932		
	IMMUNGENE, INC.	79007	93	395	-11,393		
	WINSANTOR INC	SUB 20163900 (R41CA213555)	93	395	12,242		
					5,364,986	20,568	
		Passthrough/Partial Passthrough					
		ACOUSTIC MEDSYSTEMS, INC.	2R44CA121740-02	93	396	15,785	
		BAYLOR RESEARCH INSTITUTE	41010301401-CYC4	93	396	329,762	
		BRIGHT AND WOMEN'S HOSPITAL	118360	93	396	128,483	
		CALIFORNIA INSTITUTE OF TECHNOLOGY	SUB 19GM-1093586 (CA164803)	93	396	32,063	
		CALIFORNIA INSTITUTE OF TECHNOLOGY	68-1098295	93	396	70,789	
		CASE WESTERN RESERVE UNIVERSITY	SUB RES509813 (CA198941)	93	396	88,612	
		CEDARS-SINAI MEDICAL CENTER	1335054:2	93	396	116,635	
		CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	137592	93	396	33,792	
		CHILDREN'S HOSPITAL OF PHILADELPHIA	88382	93	396	2	
		INSTITUTE FOR SYSTEMS BIOLOGY	81706	93	396	190,032	
		JOHNS HOPKINS UNIVERSITY	SUB 2002785140 (CA177669)	93	396	9,396	
		JOHNS HOPKINS UNIVERSITY	A17-0764-001	93	396	25,879	
		LEIDOS BIOMEDICAL RESEARCH, INC.	16X002, NOT 003,004,005,	93	396	51,939	
		LEIDOS BIOMEDICAL RESEARCH, INC.	A9098	93	396	-16,673	
	LEIDOS BIOMEDICAL RESEARCH, INC.	A9311	93	396	-7,553		
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SUB 5710004012 (CA184898)	93	396	108,885		
	NEW YORK UNIVERSITY	16-A1-00-005762-01	93	396	32,122		
	NVIGEN INC.	A17-0625-003	93	396	10,903		
	ST. JUDE CHILDREN'S RESEARCH HOSPITAL	111913019-7593083	93	396	26,435		
	STANFORD UNIVERSITY	61643576-118326	93	396	288,426		
	UNIVERSITY OF CHICAGO	FP031553	93	396	70,332		
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	FY14.701.001	93	396	45,967		
	UNIVERSITY OF PENNSYLVANIA	1P01CA165997-01A1	93	396	165,559		
	UNIVERSITY OF SOUTHERN CALIFORNIA	65232523:3	93	396	155,520		
	UNIVERSITY OF SOUTHERN CALIFORNIA	65279540-CYC3	93	396	39,655		
	UNIVERSITY OF SOUTHERN CALIFORNIA	65318381:2	93	396	70,099		
	UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER	SUB 00001959 (CA182905)	93	396	98,684		
	UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER	SUB 00003638 (CA196403)	93	396	71,185		
	UNIVERSITY OF TEXAS-M.D. ANDERSON CANCER CENTER	00003639	93	396	86,309		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	UNIVERSITY OF WASHINGTON	9764 (CA211310-01)	93	396	15,438	
	VANDERBILT UNIVERSITY	A9099	93	396	-15,710	
	WASHINGTON UNIVERSITY IN ST. LOUIS	1R21CA223836-01	93	396	23,505	
					2,362,257	
	Passthrough/Partial Passthrough					
	CALIFORNIA INSTITUTE OF TECHNOLOGY	68D-1096829:1	93	397	572,590	
	CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE	16-17-JV-G007740C-UCLA	93	397	10,985	
	CORNELL UNIVERSITY	78542-10760	93	397	95,978	
	INDIANA UNIVERSITY	B9293	93	397	41,593	
	INDIANA UNIVERSITY	IN4681941UCSF	93	397	25,605	
	INDIANA UNIVERSITY	IN4687563UCSF	93	397	106,294	
	INDIANA UNIVERSITY	IN4689835UCSF	93	397	40,019	
	INDIANA UNIVERSITY	IN4689836UCSF	93	397	395,386	
	INDIANA UNIVERSITY	IN4681937UCSF	93	397	229,608	
	INDIANA UNIVERSITY	IN4689861UCSF	93	397	19,880	
MEMORIAL SLOAN-KETTERING CANCER CENTER	BD511891	93	397	-151		
NORTHWESTERN UNIVERSITY	60040958UCSF	93	397	163,545		
NORTHWESTERN UNIVERSITY	79188	93	397	-7,412		
PRINCETON UNIVERSITY	58685	93	397	-2,358		
UNIVERSITY OF MARYLAND	SR00004046	93	397	594		
UNIVERSITY OF MICHIGAN	3004314292	93	397	2,372		
UNIVERSITY OF PITTSBURGH	0046110 (127890-1)	93	397	264,810		
UNIVERSITY OF PITTSBURGH	9013520 (128999-1)	93	397	133,768		
UNIVERSITY OF PITTSBURGH	B7560	93	397	-1,534		
YESHIVA UNIVERSITY	31082B	93	397	62,558		
OREGON HEALTH & SCIENCE UNIVERSITY	60566	93	397	2,320		
OREGON HEALTH & SCIENCE UNIVERSITY	60569	93	397	10,589		
				2,167,039		
Passthrough/Partial Passthrough						
CHILDREN'S HOSPITAL OF PHILADELPHIA	89022	93	398	338		
NRG ONCOLOGY	SUB 908798 (NCI)	93	398	249,160		
PURDUE UNIVERSITY	1R25CA174665-01A1	93	398	32,264		
				281,762		
Passthrough/Partial Passthrough						
BRIGHAM AND WOMEN'S HOSPITAL	CALGB/CA136	93	399	190,572		
CHILDREN'S HOSPITAL OF PHILADELPHIA	57461	93	399	436		
MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	58424	93	399	3,519		
				194,527		
Passthrough/Partial Passthrough						
ORGANIZATION OF TERATOLOGY INFORMATION SPECIALISTS	SUB NONE(20174089)	93	424	9,445		
MARCH OF DIMES BIRTH DEFECTS FOUNDATION	SUB 20180428 (U380T000199-05-	93	424	33,800	21,807	
				43,245	21,807	
Passthrough/Partial Passthrough						
REHABILITATION INSTITUTE OF CHICAGO	81758-CYC6	93	433	5,936		
UNIVERSITY OF MINNESOTA	A005198604	93	433	26,404		
				32,340		
Passthrough/Partial Passthrough						
RIVERSIDE-SAN BERNARDINO COUNTY INDIAN HEALTH, INC	57523	93	508	5,238		
				5,238		
Passthrough/Partial Passthrough						
CALIFORNIA DEPARTMENT OF INSURANCE	13038IA	93	511	694,385	364,667	
				694,385	364,667	
Passthrough/Partial Passthrough						
CALIFORNIA HEALTH BENEFIT EXCHANGE	13-E9001:A2	93	525	95,824	103,600	
				95,824	103,600	
Passthrough/Partial Passthrough						
JOHNS HOPKINS UNIVERSITY	SUB 2002922541(DP005045)	93	542	40,490		
				40,490		
Passthrough/Partial Passthrough						
SOUTH BAY COMMUNITY SERVICES	SUB 20140475 (90EV0422-01-00)	93	592	27,081		
				27,081		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	Passthrough/Partial Passthrough						
	ASSOCIATION OF AMERICAN MEDICAL COLLEGES	C1CMS331324	93	610	101,546		
	ASSOCIATION OF AMERICAN MEDICAL COLLEGES	SUB GT-32013-06 (1CLCMS33132)	93	610	23,062		
	CHILDREN'S NATIONAL HEALTH SYSTEM	30002606-07:5	93	610	116,887		
					241,495		
	Passthrough/Partial Passthrough						
	SUNY UNIVERSITY AT ALBANY	18-9	93	623	63,814		
					63,814		
	Passthrough/Partial Passthrough						
	LOS ANGELES GAY AND LESBIAN COMMUNITY SERVICES CENTER INC	79715	93	648	43,992		
	SUNY UNIVERSITY AT ALBANY	1135853-9-76397	93	648	79,447	7,359	
	UNIVERSITY OF NEBRASKA	24-0520-0249-005	93	648	17,171		
					140,610	7,359	
	Passthrough/Partial Passthrough						
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	16-IA-00870	93	658	606,825		
					606,825		
	Passthrough/Partial Passthrough						
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG209336-01	93	687	72,867		
					72,867		
	Passthrough/Partial Passthrough						
DUKE UNIVERSITY	79404	93	701	-1,406			
EMMES CORPORATION, THE	20101609	93	701	13,768			
TULANE UNIVERSITY (ARRA)	87447	93	701	18			
UNIVERSITY OF MICHIGAN	9166SC	93	701	6,859			
UNIVERSITY OF MICHIGAN	79014	93	701	8,542	3,095		
UNIVERSITY OF ROCHESTER	58151	93	701	63			
UNIVERSITY OF IOWA (ARRA)	83306	93	701	9,068			
				36,912	3,095		
Passthrough/Partial Passthrough							
ACADEMIC PEDIATRIC ASSOCIATION	20152248	93	733	51,441			
				51,441			
Passthrough/Partial Passthrough							
MERCED COUNTY DEPARTMENT OF PUBLIC HEALTH	2016232	93	737	22,482			
NEW YORK MEDICAL COLLEGE	L-10215	93	737	4,794			
				27,276			
Passthrough/Partial Passthrough							
CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	16-2011	93	747	73,192			
				73,192			
Passthrough/Partial Passthrough							
CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	1410730	93	757	73,799			
				73,799			
Passthrough/Partial Passthrough							
CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	16-10961	93	758	108,533			
				108,533			
Passthrough/Partial Passthrough							
BRIGHAM AND WOMEN'S HOSPITAL	SUB NONE (HL101422)	93	827	8,403			
				8,403			
Passthrough/Partial Passthrough							
BAYLOR COLLEGE OF MEDICINE	5601104669	93	837	58,039			
BETH ISRAEL DEACONESS MEDICAL CENTER	SUB NONE (HL 108724)	93	837	87,435			
BIOPICO SYSTEMS	BPS-54576-CYC5	93	837	-379			
BRIGHAM AND WOMEN'S HOSPITAL	114963 (HL134168)	93	837	141,984			
BRIGHAM AND WOMEN'S HOSPITAL	59455	93	837	-12			
BRIGHAM AND WOMEN'S HOSPITAL	B3973	93	837	1,426			
BRIGHAM AND WOMEN'S HOSPITAL	SUB 110007 (AI068636)	93	837	12,436			
BRIGHAM AND WOMEN'S HOSPITAL	SUB 110009 (AI068636)	93	837	51,993			
BRIGHAM AND WOMEN'S HOSPITAL	SUB 112044 (HL128135)	93	837	95,799			
BRIGHAM AND WOMEN'S HOSPITAL	SUB 225707 (HL123336)	93	837	115,127			

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	BRIGHAM AND WOMEN'S HOSPITAL	SUB PS#107223 (HL101422)	93	837	26,445	
	BRIGHAM AND WOMEN'S HOSPITAL	114117	93	837	8,918	
	BRIGHAM AND WOMEN'S HOSPITAL	5U01HL101422	93	837	8,712	
	BRIGHAM AND WOMEN'S HOSPITAL	89369	93	837	2	
	BRIGHAM AND WOMEN'S HOSPITAL	BWH-101848-CYC2	93	837	68,786	
	BRIGHAM AND WOMEN'S HOSPITAL	SUB 117712 (HL134811)	93	837	195,944	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SUB SA0000320-321-322 (HL0855)	93	837	265,688	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SUB SA0000322 (HL085577)	93	837	669,005	
	CASE WESTERN RESERVE UNIVERSITY	SUB RES510972(HL132364)	93	837	49,219	
	CEDARS-SINAI MEDICAL CENTER	0001150918-005	93	837	133,122	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	137341	93	837	555,263	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	SUB 138275(HL131003)	93	837	75,852	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	SUB 138281 (HL131003)	93	837	389,402	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	SUB 2018 CVDC 138275 CHAIR (H	93	837	9,052	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	3200170321-1	93	837	4,652	
	COLUMBIA UNIVERSITY	1(GG011028)	93	837	83,056	
	COLUMBIA UNIVERSITY	SUB GG10320 (HL123061)	93	837	225,901	
	COLUMBIA UNIVERSITY	7(GG0110462-02)-1	93	837	58,844	
	COLUMBIA UNIVERSITY	88327	93	837	-12	
	CORNELL UNIVERSITY	R24HL120847	93	837	39,890	
	DETON CORPORATION	873DE	93	837	577	
	DUKE UNIVERSITY	2036055	93	837	396,193	
	DUKE UNIVERSITY	203-7620	93	837	24,091	
	DUKE UNIVERSITY	SITE - 077-CABABA	93	837	19,749	
	DUKE UNIVERSITY	SUB 2035665 (HL13753)	93	837	81,937	
	FRED HUTCHINSON CANCER RESEARCH CENTER	SUB 0000857429 (HL122273)	93	837	369,396	
	FRED HUTCHINSON CANCER RESEARCH CENTER	89134	93	837	8	
	GEORGIA TECH RESEARCH CORPORATION	RG884-G1	93	837	225,867	
	GLADSTONE INSTITUTES	R02177-C	93	837	60,397	
	GLADSTONE INSTITUTES	R2316-A	93	837	395,438	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	875DC	93	837	128,977	
	INDIANA UNIVERSITY	IN4687648UCLA	93	837	37,370	
	JOHNS HOPKINS UNIVERSITY	2002681722	93	837	141,360	
	KAISER FOUNDATION HEALTH PLAN OF WASHINGTON	SUB 2018103333 (HL125440)	93	837	11,051	
	LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY	SUB 22593-44-393 (HL055798)	93	837	119,651	
	LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY	SUB 22817-44-393 (HL136275)	93	837	289,054	
	LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY	SUB 22817-50-393 (HL136275)	93	837	62,280	
	LOMA LINDA UNIVERSITY (INCL NATL MEDICAL TECHNOLOGY TESTBED, INC.)	2160056-UCLA	93	837	151,653	
	LOS ANGELES BIOMEDICAL RESEARCH INSTITUTE AT HARBOR-UCLA MEDICAL CTR	008874	93	837	32,018	
	LOS ANGELES BIOMEDICAL RESEARCH INSTITUTE AT HARBOR-UCLA MEDICAL CTR	2013092430	93	837	90,539	
	MASSACHUSETTS GENERAL HOSPITAL	201522908:3	93	837	70,278	
	MASSACHUSETTS GENERAL HOSPITAL	224883	93	837	8,479	
	MASSACHUSETTS GENERAL HOSPITAL	B5156	93	837	-740	
	MASSACHUSETTS GENERAL HOSPITAL	U01HL23336	93	837	49,467	
	MASSACHUSETTS GENERAL HOSPITAL	20172788	93	837	64,170	
	MASSACHUSETTS GENERAL HOSPITAL	79680	93	837	-169	
	MASSACHUSETTS GENERAL HOSPITAL	SUB 231822 (HL140224)	93	837	92,343	
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	CSF-215432	93	837	4,178	
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	UNI-203880-02:2	93	837	36,810	
	MEMORIAL HOSPITAL OF RHODE ISLAND	5001191-KLEIN	93	837	28,464	
	MEMORIAL HOSPITAL OF RHODE ISLAND	SUB 5001191-LACROIX (HL13059	93	837	1,165	
	MIRIAM HOSPITAL, THE	87898	93	837	84	
	NATIONAL BUREAU OF ECONOMIC RESEARCH, INC	4144B.UCSF	93	837	102,748	
	NATIONAL BUREAU OF ECONOMIC RESEARCH, INC	B1992	93	837	-1,923	
	NATIONAL JEWISH HEALTH	20100603_UCSF SUB	93	837	106,403	
	NATIONAL JEWISH HEALTH	20103402	93	837	151,443	
	NEW ENGLAND RESEARCH INSTITUTE, INC.	201500084	93	837	9,322	
	NEW ENGLAND RESEARCH INSTITUTE, INC.	SUB 20170873 (HL068270)	93	837	18,509	
	NEW ENGLAND RESEARCH INSTITUTE, INC.	SUB NONE (HL107407)	93	837	3,844	
	NEW ENGLAND RESEARCH INSTITUTE, INC.	895E0	93	837	16,754	
	NEW ENGLAND RESEARCH INSTITUTE, INC.	G140030-CYC1	93	837	353	
	NEW ENGLAND RESEARCH INSTITUTE, INC.	SUB 20173994 (HL068270)	93	837	2,084	
	NEW YORK UNIVERSITY	20131088	93	837	4,291	
	NEW YORK UNIVERSITY	NYU-103915-CYC1	93	837	1,572	
	NEW YORK UNIVERSITY	NYU-202588-CYC1	93	837	76,164	
	NEW YORK UNIVERSITY	UCSF#A126863	93	837	4,299	
	NEW YORK UNIVERSITY	NYU-201291-CYC1	93	837	1,177	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	RAT1855-01	93	837	66,023	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	1774:4	93	837	34,410	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	PUL1939	93	837	-2,553	
	NORTHWESTERN UNIVERSITY	60043010UCSF	93	837	24,211	

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF HEALTH AND HUMAN SERVICES	NORTHWESTERN UNIVERSITY	60036200 UCSF	93	837	222,648	
	NORTHWESTERN UNIVERSITY	SP0028071-PROJ0007326:2	93	837	101,276	
	OCT MEDICAL IMAGING, INC	OCTMI-204394-CYC2	93	837	14,958	
	OHIO STATE UNIVERSITY	60059645	93	837	102	
	OHIO STATE UNIVERSITY	60060457:5	93	837	9,547	
	OHIO STATE UNIVERSITY	89373	93	837	1,402	
	OREGON HEALTH & SCIENCE UNIVERSITY	1002459UCDHS	93	837	5,474	
	OREGON HEALTH & SCIENCE UNIVERSITY	1005364UCDAVIS	93	837	55,375	
	OREGON HEALTH & SCIENCE UNIVERSITY	SUB 1005338 UCSD (HL078610)	93	837	59,942	
	OREGON HEALTH & SCIENCE UNIVERSITY	1002459_UCLA:3	93	837	148,136	
	OREGON HEALTH & SCIENCE UNIVERSITY	1010835_UCSF	93	837	41,544	
	PARTNERS HEALTHCARE SYSTEM, INC	229172	93	837	86,563	
	PENNSYLVANIA STATE UNIVERSITY	UCAHL098115_TO7	93	837	10,951	
	PENNSYLVANIA STATE UNIVERSITY	UCAHL098115	93	837	1,603	
	PENNSYLVANIA STATE UNIVERSITY	UCAHL098115_TO5	93	837	74,423	34,771
	PENNSYLVANIA STATE UNIVERSITY	UCAHL098115-07	93	837	10	
	PURDUE UNIVERSITY	4102-82266	93	837	127,604	
	QT MEDICAL, INC.	QT001-CYC5	93	837	42,588	
	RHODE ISLAND HOSPITAL	701-7137112:4	93	837	253,370	
	RTI INTERNATIONAL	15-312-0214047-52992L-CYC1	93	837	19,309	
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	60062-12920-UCSB	93	837	438,947	
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 60062-12921-UCSD (HL1314)	93	837	459,041	
	SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION	SUB 11639SUB (UM1HL119073)	93	837	14,495	
	STANFORD UNIVERSITY	60436086-107606-D:4	93	837	72,007	
	STANFORD UNIVERSITY	60436089107606C	93	837	4,276	
	STANFORD UNIVERSITY	60594679-107635	93	837	65,672	
	STANFORD UNIVERSITY	61335463-12198C	93	837	144,646	
	STANFORD UNIVERSITY	R01HL128170	93	837	161,712	
	STANFORD UNIVERSITY	SUB 60988003-118781 (HL083355)	93	837	83,769	
	STANFORD UNIVERSITY	SUB 61153993-121531 (HL12368	93	837	119,794	
	STANFORD UNIVERSITY	SUB 61289425-123492 (HL13222E	93	837	55,532	
	STANFORD UNIVERSITY	SUB 61324668-122625(HL130840)	93	837	53,880	
	STANFORD UNIVERSITY	36B10	93	837	180,029	
	STANFORD UNIVERSITY	D2041	93	837	33,184	
	TEXAS TECHNICAL UNIVERSITY	SC18-01	93	837	70,513	
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	B5051	93	837	-7,186	
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000503570-016 (HL120338)	93	837	3,100	
	TOURO COLLEGE AND UNIVERSITY SYSTEM	000075C	93	837	182,188	
	TOURO COLLEGE AND UNIVERSITY SYSTEM	000085C	93	837	15,763	
	TRANSTARGET, INC.	A128899	93	837	6,529	
	UNIVERSITY OF ARIZONA	381130	93	837	212,030	
	UNIVERSITY OF CHICAGO	SUB FP053857 (HL119967)	93	837	87,280	
	UNIVERSITY OF COLORADO BOULDER	SUB1554895(HL134887)	93	837	172,775	
	UNIVERSITY OF CONNECTICUT	SUB 133694 (HL128067)	93	837	11,401	
	UNIVERSITY OF ILLINOIS AT CHICAGO	15927	93	837	150,439	
	UNIVERSITY OF IOWA	1001475908	93	837	187,194	
	UNIVERSITY OF IOWA	871E7	93	837	5,378	
	UNIVERSITY OF IOWA	87304	93	837	-18,527	
	UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	3200000734-17-033	93	837	220,883	
	UNIVERSITY OF MIAMI	667431	93	837	35,942	
	UNIVERSITY OF MICHIGAN	SUB 3002988796 (HL117860)	93	837	1,850	
	UNIVERSITY OF MICHIGAN	3004402852	93	837	40,329	
	UNIVERSITY OF MICHIGAN	73B44	93	837	4,378	
	UNIVERSITY OF MINNESOTA	N006187402	93	837	6,417	
	UNIVERSITY OF MINNESOTA	R01HL138539	93	837	36,780	
	UNIVERSITY OF MISSISSIPPI	66105170517-UCLA:3	93	837	24,357	
	UNIVERSITY OF NEW SOUTH WALES	RG161191-RUC01	93	837	16,607	
	UNIVERSITY OF PENNSYLVANIA	567197	93	837	68,404	
	UNIVERSITY OF PITTSBURGH	SUB 0041597 (HL122144)	93	837	37,747	
	UNIVERSITY OF TEXAS-AUSTIN	UTA16-000560:1	93	837	275,882	
	UNIVERSITY OF VIRGINIA	87356	93	837	-1,768	
	UNIVERSITY OF VIRGINIA	SUB GB10392 153894 (HL136098)	93	837	4,929	
	UNIVERSITY OF WASHINGTON	8535:1	93	837	67,342	
	UNIVERSITY OF WASHINGTON	BPO18370	93	837	39,636	
	UNIVERSITY OF WASHINGTON	SUB UWSC8735 (HL122199)	93	837	63,518	
	UNIVERSITY OF WASHINGTON	UWSC7526	93	837	54,304	
	UNIVERSITY OF WASHINGTON	UWSC9050	93	837	55,353	
	UNIVERSITY OF WISCONSIN SYSTEM	809K373	93	837	5,432	
	VANDERBILT UNIVERSITY	58542	93	837	-802	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	SUB 08558-309843 (HL066941)	93	837	402,031	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	SUB 08558-309844 (HL066941)	93	837	189,475	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	SUB 08558-309845 (HL066941)	93	837	266,825		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA 315351 FU (HL066941)	93	837	84,422		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HAMMOND (HL066941)	93	837	35,722		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HAMMOND (HL122038)	93	837	19,162		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GUATELLI (AI081668)	93	837	59,701		
	WAKE FOREST UNIVERSITY	WFUHS 114487:1	93	837	82,107		
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-15-188-MOD-2	93	837	65,359		
	YALE UNIVERSITY	SUB NONE (HL125918)	93	837	237		
	YESHIVA UNIVERSITY	311297	93	837	1,410		
	ALBERT EINSTEIN COLLEGE OF MEDICINE INC.	SUB 311257(HL140976)	93	837	3,836		
	3DT HOLDINGS, LLC	3DT-200995-CYC2	93	837	64,457		
	MCGILL UNIVERSITY	SUB PO CC 417 (R01 HL128550)	93	837	110,784		
	OPTIMA INTEGRATED HEALTH, INC	A130200	93	837	264,856		
	RESHAPE LIFESCIENCES LLC	RL-203921-CYC1	93	837	52,016		
					14,045,461	34,771	
		Passthrough/Partial Passthrough					
		BAYLOR COLLEGE OF MEDICINE	7000000159	93	838	16,646	
		BRIGHAM AND WOMEN'S HOSPITAL	117080	93	838	7,297	
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	74159:3	93	838	6,212		
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	U01HL107681	93	838	-4		
	CHILDREN'S HOSPITAL OF PHILADELPHIA	80062	93	838	3,874		
	COLUMBIA UNIVERSITY	1(GG010919-02)	93	838	109,542		
	COLUMBIA UNIVERSITY	3(GG007619-04)	93	838	42,083		
	COLUMBIA UNIVERSITY	SUB 1 GG013356-01(HL138468)	93	838	30,336		
	DUKE UNIVERSITY	79017	93	838	-1,159		
	EMORY UNIVERSITY	T702698	93	838	-7,453		
	HENRY FORD HEALTH SYSTEM	1R01HL118267-01A1	93	838	268,092		
	JOHNS HOPKINS UNIVERSITY	2003614631	93	838	43,688		
	MASSACHUSETTS GENERAL HOSPITAL	A126302	93	838	289,167	24,947	
	MASSACHUSETTS GENERAL HOSPITAL	100465C	93	838	2,548		
	MASSACHUSETTS GENERAL HOSPITAL	2013D003748	93	838	65,734	26,745	
	MASSACHUSETTS GENERAL HOSPITAL	B8560	93	838	24,256	4,740	
	NATIONAL JEWISH HEALTH	20111601_UCSF SUB	93	838	486,044		
	NORTHWESTERN UNIVERSITY	60043345 UC:A04	93	838	30,675		
	PENNSYLVANIA STATE UNIVERSITY	UCASF HL109086	93	838	20,156		
	PENNSYLVANIA STATE UNIVERSITY	UCASFHL109086-SARP3	93	838	17,195		
	RADIOLOGICAL SOCIETY OF NORTH AMERICA INC	HSN268201200078C(2A)	93	838	195,501		
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000503442 (HL122626)	93	838	198,960		
	UNIVERSITY OF ARIZONA	291957	93	838	54,130		
	UNIVERSITY OF COLORADO DENVER	FY15.727.002	93	838	128,504		
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	FY14.064.001	93	838	136,122		
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	FY14.064.003	93	838	133,401		
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	FY15.369.005	93	838	30,752		
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	FY13.369.006	93	838	-1,572		
	UNIVERSITY OF ILLINOIS	7922:2	93	838	61,600		
	UNIVERSITY OF MICHIGAN	3003837218	93	838	38,892		
	UNIVERSITY OF MICHIGAN	3004355200	93	838	431,842		
	UNIVERSITY OF MICHIGAN	3004647871-CYC1	93	838	14,930		
	UNIVERSITY OF MINNESOTA	A000213101	93	838	39,189		
	UNIVERSITY OF MINNESOTA	A005956202	93	838	99,134		
	UNIVERSITY OF PENNSYLVANIA	565138	93	838	18,751		
	UNIVERSITY OF PENNSYLVANIA	B8568	93	838	22,486		
	UNIVERSITY OF PENNSYLVANIA	571558	93	838	32,676		
	UNIVERSITY OF PENNSYLVANIA	572978	93	838	26,229		
	UNIVERSITY OF PENNSYLVANIA	A7473	93	838	1		
	UNIVERSITY OF PITTSBURGH	0035200(123815-1)	93	838	70,034		
	UNIVERSITY OF PITTSBURGH	0041577 (1251-1)	93	838	85,198		
	UNIVERSITY OF PITTSBURGH	0041577(125120-2)	93	838	122,430		
	UNIVERSITY OF PITTSBURGH	79221	93	838	-17,333		
	UNIVERSITY OF PITTSBURGH	0059236 (130132-1)	93	838	5,207		
	UNIVERSITY OF PITTSBURGH	0059617 (130153-1)	93	838	62,171		
	UNIVERSITY OF PITTSBURGH	58035	93	838	-8,408		
	UNIVERSITY OF PITTSBURGH	9012549(128373-23)	93	838	123		
	UNIVERSITY OF PITTSBURGH	U01HL128954	93	838	1,012		
	UNIVERSITY OF WASHINGTON	13487	93	838	312,823		
	UNIVERSITY OF WASHINGTON	17561:2	93	838	602,272		
	VANDERBILT UNIVERSITY	58669	93	838	2,976		
	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC 44301	93	838	-165		
	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC 44299:1	93	838	-12,805		
	XFIBRA, LLC	871A8	93	838	-1,827		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	XFIBRA, LLC	8726C	93	838	-12,753	
	COPD FOUNDATION	001	93	838	185	
	COPD FOUNDATION	002	93	838	138	
					4,327,735	56,432
	Passthrough/Partial Passthrough					
	CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION	127909	93	839	55,050	
	CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION	2_7909_UCSF_OL_L6_17	93	839	43,203	
	CHILDREN'S HOSPITAL LOS ANGELES	RGF008095-A.4	93	839	79,932	
	DIAGNOLOGIX LLC	SUB 20180337 (HL126285)	93	839	37,837	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-2931-4609	93	839	465,059	
	KAISER PERMANENTE DIVISION OF RESEARCH	209203-001	93	839	64,522	
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	CLA-234667	93	839	136,513	
	NATIONAL JEWISH MEDICAL AND RESEARCH CENTER	SUB 2020072608 (HL089897)	93	839	205,611	
	NATIONAL MARROW DONOR PROGRAM	A111930	93	839	-379	
	NATIONAL MARROW DONOR PROGRAM	SUB RIDER 1302 (HL69294)	93	839	4,032	
	OHIO STATE UNIVERSITY	60057321 (HL126945)	93	839	204,161	
	OHIO STATE UNIVERSITY	60061716	93	839	8,250	
	OHIO STATE UNIVERSITY	SUB 60061829 (HL138116)	93	839	93,531	
	PENNSYLVANIA STATE UNIVERSITY	UCA-SFHL098115-02	93	839	53,050	
	PROTEOGENOMICS RESEARCH INSTITUTE FOR SYSTEMS MEDICINE	SUB NONE (HL119165)	93	839	231,573	
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 60062-12923-UCSD (HL1314)	93	839	220,195	
	THE SCRIPPS RESEARCH INSTITUTE	88254	93	839	-1,983	
	UNIVERSITY OF MARYLAND	14822-20552001	93	839	147,237	
	UNIVERSITY OF MICHIGAN	A16-0006-004	93	839	7,964	
	UNIVERSITY OF MINNESOTA	N003130601	93	839	-4,822	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	201122155	93	839	241,952	
	UNIVERSITY OF PENNSYLVANIA	564154/10042446/14855/0X	93	839	176,776	
	UNIVERSITY OF PENNSYLVANIA	565117	93	839	208,661	
	UNIVERSITY OF PENNSYLVANIA	566085-2	93	839	456	
	UNIVERSITY OF VERMONT	SUB 30768 SUB UCSD1(HL110955)	93	839	100,928	
	UNIVERSITY OF WASHINGTON	UWSC8734	93	839	75,191	
	UNIVERSITY SYSTEM OF MARYLAND	1600222/14242-CYC2	93	839	67,649	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA CHEN (HL066941)	93	839	12,312	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HAMMOND (HL066941)	93	839	35,941	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HAMMOND 309658 (HL0669-	93	839	95,762	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HAMMOND 309878 (HL06694	93	839	48,912	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA KIRK (HL066941)	93	839	42,171	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA PATEL (HL066941)	93	839	19,117	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	88905	93	839	86,529	
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-14-194	93	839	45,713	
	YESHIVA UNIVERSITY	SUB 9-526-6969 (HL110900)	93	839	174,195	
	ANN & ROBERT H. LURIE CHILDREN'S HOSPITAL OF CHICAGO	901516-UCI-CYC1	93	839	23,752	
	JOHNS HOPKINS ALL CHILDREN'S HOSPITAL INC	SUB ACRI 9-001 (HL130048)	93	839	1,582	
					3,508,135	
	Passthrough/Partial Passthrough					
	BLOOD SYSTEMS, INC. DBA BLOOD SYSTEMS RESEARCH INSTITUTE	10841UC131	93	840	185,923	
					185,923	
	Passthrough/Partial Passthrough					
	CEDARS-SINAI MEDICAL CENTER	0000953876	93	845	-8,951	
					-8,951	
	Passthrough/Partial Passthrough					
	BAYLOR COLLEGE OF MEDICINE	5601061110-2	93	846	194,273	
	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY1717M112	93	846	84,401	
	BIONIKS	R41AR068202	93	846	46,219	
	BOSTON UNIVERSITY	4500001229	93	846	16,259	
	BOSTON UNIVERSITY	4500001983	93	846	145,875	
	BOSTON UNIVERSITY	450001255	93	846	22,538	
	BOSTON UNIVERSITY	4500002312	93	846	72,328	
	BRIGHAM AND WOMEN'S HOSPITAL	109136	93	846	16,618	
	BRIGHAM AND WOMEN'S HOSPITAL	20163020-1	93	846	-56,222	
	BROWN UNIVERSITY	00000531-CYC7	93	846	-19	
	BROWN UNIVERSITY	00001093-CYC1	93	846	74,905	
	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	280201003-0714-S167	93	846	200,899	
	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	A170045	93	846	22,429	
	ICELANDIC HEART ASSOCIATION	HHSN27120120022C	93	846	397	
	JOHNS HOPKINS UNIVERSITY	1R01AR070773	93	846	38,347	
	LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY	89394	93	846	-297	

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF HEALTH AND HUMAN SERVICES	MAINE MEDICAL CENTER	ROSEN-111071-B	93	846	164,791	42,316
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	THE-214784	93	846	23,689	
	NATIONWIDE CHILDREN'S HOSPITAL	SUB 735611 (AR060949)	93	846	10,216	
	NORTHWELL HEALTH INC	500678UCSF	93	846	207,236	62,451
	NORTHWESTERN UNIVERSITY	60031647 UCSF	93	846	4,345	
	NORTHWESTERN UNIVERSITY	60036404 UCSF	93	846	193,622	
	O.N. DIAGNOSTICS, LLC	R44AR057616	93	846	2,626	
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 58556-12524 (AR 064873)	93	846	21,218	
	SCARLESS LABORATORIES, INC	2R44AR064126-03A1	93	846	7,992	
	SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION	83299	93	846	-3,602	
	STANFORD UNIVERSITY	61600887-32757	93	846	1,283	
	SUTTER WEST BAY HOSPITALS	SUB 280201005-S175 (AR006526)	93	846	-745	
	THE FEINSTEIN INSTITUTE FOR MEDICAL RESEARCH	8753C	93	846	-27	
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000502603-004-CYC1	93	846	92,812	
	TUFTS MEDICAL CENTER, INC.	5012099-SERV	93	846	57,999	
	UNIVERSITY OF ARIZONA	247411	93	846	215,034	
	UNIVERSITY OF CINCINNATI	008754-013:3	93	846	20,301	
	UNIVERSITY OF COLORADO DENVER	FY17.873.001	93	846	98,529	
	UNIVERSITY OF COLORADO DENVER	SUB 15.090.005 (AR067681)	93	846	90,527	
	UNIVERSITY OF CONNECTICUT	SUB UCHC6-80676187(AR070879)	93	846	125,059	
	UNIVERSITY OF FLORIDA	UFDSP00011388	93	846	123,547	
	UNIVERSITY OF FLORIDA	UFDSP00011389	93	846	14,135	
	UNIVERSITY OF FLORIDA	UFDSP00011390	93	846	62,781	
	UNIVERSITY OF FLORIDA	UFDSP00012127-CYC1	93	846	2,329	
	UNIVERSITY OF IOWA	39B27	93	846	88,605	
	UNIVERSITY OF MICHIGAN	3003938003:02	93	846	12,682	
	UNIVERSITY OF NORTH CAROLINA SYSTEM	5103374	93	846	4,254	
	UNIVERSITY OF SOUTHERN CALIFORNIA	79693	93	846	-5,086	
	UNIVERSITY OF SOUTHERN CALIFORNIA	87118183	93	846	9,576	
	UNIVERSITY OF TENNESSEE	AR064354 UCLA	93	846	507	
	UNIVERSITY OF WASHINGTON	58455	93	846	-133	
	UNIVERSITY OF WISCONSIN-MADISON	SUB 630K464 (AR068373)	93	846	32,438	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	87627	93	846	-758	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	879A2	93	846	34,176	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA TERKELTAUB (AR060772)	93	846	19,211	
	WASHINGTON STATE UNIVERSITY	11617 G003611	93	846	54,655	
	WASHINGTON UNIVERSITY IN ST. LOUIS	87623	93	846	334	
	YESHIVA UNIVERSITY	310451	93	846	6,408	
	CHILDREN'S NATIONAL HEALTH SYSTEM	300003331203	93	846	6,155	
	CONFLUENCE LIFE SCIENCES, LLP	85289	93	846	-4,274	
	MAGNAMOSIS, INC.	070117	93	846	200,155	
					2,873,552	104,767
	Passthrough/Partial Passthrough					
	ACOUSTIC MEDSYSTEMS, INC.	A127047	93	847	274,661	
	ARBOR RESEARCH COLLABORATIVE FOR HEALTH	20162920:2	93	847	53,783	
	ARBOR RESEARCH COLLABORATIVE FOR HEALTH	ARB041916	93	847	143	
	AUGUSTA UNIVERSITY	30835/25034-72	93	847	4,414	
	AUGUSTA UNIVERSITY	U24DK076169-12	93	847	25,045	
	BAYLOR COLLEGE OF MEDICINE	008859	93	847	120,691	
	BAYLOR COLLEGE OF MEDICINE	20170707	93	847	62,989	
	BAYLOR COLLEGE OF MEDICINE	7000000289	93	847	50,459	
	BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	50578.1914951.669302-CYC1	93	847	66,744	
	BETH ISRAEL DEACONESS MEDICAL CENTER	SUB 01029372(DK111529)	93	847	35,855	
	BOSTON UNIVERSITY	4500001991:001	93	847	10,384	
	BOSTON UNIVERSITY	SUB 4500002259(DK108612)	93	847	33,477	
	BRENTWOOD BIOMEDICAL RESEARCH INSTITUTE	20145153:2	93	847	233,482	
	BROAD INSTITUTE INC.	SUB 5216277-00000942(DK10555	93	847	425,873	
BROAD INSTITUTE INC.	874F9	93	847	233,770		
BROAD INSTITUTE INC.	SUB 5216278-5500001102 (DK10	93	847	48,523		
CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	28000004128	93	847	326,173		
CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	280201011-S2104	93	847	51,473		
CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	280201011-S202	93	847	31,907		
CASE WESTERN RESERVE UNIVERSITY	78264	93	847	-13		
CASE WESTERN RESERVE UNIVERSITY	RES511776	93	847	105,051		
CASE WESTERN RESERVE UNIVERSITY	SUB RES509275 (DK094157)	93	847	220,250		
CASE WESTERN RESERVE UNIVERSITY	SUB RES509478 (DK104438)	93	847	4,735		
CASE WESTERN RESERVE UNIVERSITY	SUB RES508624 (DK101074)	93	847	13,935		
CEDARS-SINAI MEDICAL CENTER	0001285404	93	847	56,736		
CEDARS-SINAI MEDICAL CENTER	0001285442	93	847	49,557		
CEDARS-SINAI MEDICAL CENTER	0001297218:001	93	847	7,272		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	CEDARS-SINAI MEDICAL CENTER	0001273470	93	847	11,688	
	CEDARS-SINAI MEDICAL CENTER	0001355007	93	847	33,475	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	137610	93	847	214,717	
	CHILDREN'S MERCY HOSPITAL, THE	13-0022:4	93	847	13,125	
	CHILDREN'S MERCY HOSPITAL, THE	13-0025	93	847	1,737	
	CITY OF HOPE	51504.2000556.669309 (5U01DK1	93	847	12,204	
	CITY OF HOPE	SUB 53234.2000556.669301(DK1C	93	847	52,577	37,300
	COLUMBIA UNIVERSITY	SUB 1 (GG010427-05) (DK061734	93	847	104,821	
	COLUMBIA UNIVERSITY	SUB 1(GG010427)(DK061734)	93	847	572,644	
	COLUMBIA UNIVERSITY	SUB 3 (GG010427) (DK061734)	93	847	-33,422	
	COLUMBIA UNIVERSITY	SUB GG005583-02 (DK061734)	93	847	267,815	
	CONNECTICUT CHILDRENS MEDICAL CENTER	2-179296-28	93	847	2,767	
	EMMES CORPORATION, THE	UC4 DK114839-01	93	847	725	
	EMORY UNIVERSITY	3U01DK062470-14S1	93	847	40,275	
	EMORY UNIVERSITY	87984	93	847	21,174	
	EMORY UNIVERSITY	R01DK098231	93	847	-2	
	FLORIDA STATE UNIVERSITY	R01948-CYC1	93	847	12,895	
	GEORGE WASHINGTON UNIVERSITY	SUB S-DPP1718-JC03 (U01DK048-	93	847	33,153	
	GEORGE WASHINGTON UNIVERSITY	SUB S-GRD1213-KR40 (DK098246	93	847	67,837	
	GEORGE WASHINGTON UNIVERSITY	D2054	93	847	20,391	
	HARVARD UNIVERSITY	SUB 01060116 (DK110150)	93	847	145,085	
	IATERION, INC.	041630	93	847	4,847	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-2171-4609	93	847	21,725	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-3830-4609	93	847	183,094	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	58231	93	847	16	
	INDIANA UNIVERSITY	A15-0013-003	93	847	61,107	
	JOHNS HOPKINS UNIVERSITY	2001646276	93	847	168	
	JOHNS HOPKINS UNIVERSITY	2002297514	93	847	523,256	
	JOHNS HOPKINS UNIVERSITY	20170465	93	847	39,355	
	KAISER PERMANENTE DIVISION OF RESEARCH	115-7257/1494	93	847	46,532	
	KAISER PERMANENTE DIVISION OF RESEARCH	115-7258/1493	93	847	4,519	
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG200381-UCSF	93	847	31,294	
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG200630-01	93	847	167,592	
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG200295-03:2	93	847	43,856	
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG200631-03	93	847	41,481	
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG200631-04	93	847	22,553	
	LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY	871E3	93	847	1,211	
	LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY	SUB 2010844342 (DK114457)	93	847	6,799	
	LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE	5R01DK092575	93	847	36,751	
	LOYOLA UNIVERSITY OF CHICAGO	206423:1	93	847	28,955	
	LOYOLA UNIVERSITY OF CHICAGO	SUB 206423 (DK104842)	93	847	10,872	
	LOYOLA UNIVERSITY OF CHICAGO	SUB 206882 (U01DK106898)	93	847	97,182	
	LUDWIG INSTITUTE FOR CANCER RESEARCH	SUB 2420012-05003A (DK105541)	93	847	373,452	
	LUDWIG INSTITUTE FOR CANCER RESEARCH	8711D	93	847	203,890	
	MASSACHUSETTS GENERAL HOSPITAL	B6696	93	847	-3,526	
	MEDICAL COLLEGE OF WISCONSIN	201501396	93	847	160,024	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	YUKL1941-098824	93	847	107,240	
	NORTHWESTERN UNIVERSITY	60042868UCD	93	847	16,648	
	OREGON HEALTH & SCIENCE UNIVERSITY	SUB 1005905 UCSD (DK102813)	93	847	37,136	
	RHODE ISLAND HOSPITAL	70171373041	93	847	11,885	
	SAINT BARNABAS MEDICAL CENTER	UCLA4	93	847	-1,311	
	STANFORD UNIVERSITY	60867766-111862	93	847	31,368	
	STANFORD UNIVERSITY	60896104-116817	93	847	50,082	
	STANFORD UNIVERSITY	61328829-116833	93	847	185,618	
	THE SCRIPPS RESEARCH INSTITUTE	5-52131	93	847	-883	
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-53376 (DK110162)	93	847	11,987	
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-53455 (DK112927)	93	847	43,514	
	THE UNIVERSITY OF ALABAMA SYSTEM (SYSTEMWIDE PARENT CODE)	SUB 000501524 (DK079337)	93	847	586,449	
	TOURO COLLEGE AND UNIVERSITY SYSTEM	A8330	93	847	-33	
	UNIVERSITY OF ARIZONA	SUB PO 148522 (DK058251)	93	847	10,612	
	UNIVERSITY OF CHICAGO	FPO64994	93	847	207,620	
	UNIVERSITY OF CINCINNATI	009897-002	93	847	30,516	
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	FY13.274.003	93	847	110,877	44,054
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	FY15.018.001	93	847	263,052	
	UNIVERSITY OF FLORIDA	UFDSP00011567	93	847	212,144	
	UNIVERSITY OF HAWAII AT MANOA	KA1365	93	847	12,206	
	UNIVERSITY OF IOWA	1001420122	93	847	7,164	
	UNIVERSITY OF IOWA	W000834895	93	847	7,225	
	UNIVERSITY OF IOWA	W000936998	93	847	9,680	
	UNIVERSITY OF MARYLAND	10018477	93	847	41,413	
	UNIVERSITY OF MARYLAND	1300318A	93	847	42,071	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	UNIVERSITY OF MASSACHUSETTS AMHERST	SUB 13-007352 (DK064902)	93	847	12,579		
	UNIVERSITY OF MASSACHUSETTS AMHERST	SUB 14-007792 (DK097011)	93	847	41,353		
	UNIVERSITY OF MICHIGAN	SUB 3004220372(DK082841)	93	847	101,563		
	UNIVERSITY OF MICHIGAN	3004817920	93	847	53,382		
	UNIVERSITY OF MICHIGAN	SUB 3004306289 (NIH: U24DK076	93	847	17,816		
	UNIVERSITY OF MICHIGAN	SUBK00004867	93	847	6,685		
	UNIVERSITY OF MINNESOTA	SUB P006540201 (DK106786)	93	847	25,323		
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5101190-2	93	847	79,556		
	UNIVERSITY OF OREGON	SUB 215380A (DK095926)	93	847	27,320		
	UNIVERSITY OF PENNSYLVANIA	572042	93	847	79,450		
	UNIVERSITY OF PENNSYLVANIA	U01DK103225	93	847	40,701	22,038	
	UNIVERSITY OF PITTSBURGH	0019927(118536-5)	93	847	41,848		
	UNIVERSITY OF PITTSBURGH	0034844 (128385-2)	93	847	51,001		
	UNIVERSITY OF SOUTH FLORIDA	188359	93	847	39,611		
	UNIVERSITY OF SOUTH FLORIDA	SUB 6143-1147-00A (DK110621)	93	847	23,233		
	UNIVERSITY OF SOUTHERN CALIFORNIA	66872909-1	93	847	84,158		
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 92129430 (DK110793)	93	847	167,803		
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	SUB 162897/162598 (DK114920)	93	847	7,710		
	UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS	161111-REGISTRY	93	847	103,344		
	UNIVERSITY OF UTAH	10021598	93	847	17,549		
	UNIVERSITY OF WASHINGTON	SUB 698055 (DK082325)	93	847	43,161		
	UNIVERSITY OF WASHINGTON	R01DK102134	93	847	6,109		
	UNIVERSITY OF WASHINGTON	UWSC10242	93	847	16,746		
	UNIVERSITY OF WASHINGTON	UWSC8994	93	847	17,587		
	UNIVERSITY OF WASHINGTON	UWSC9341-CYC2	93	847	933		
	UNIVERSITY OF WISCONSIN-MADISON	SUB 785K610(DK088925)	93	847	28,127		
	VALITOR, INC.	AR062418	93	847	1,683		
	VANDERBILT UNIVERSITY	UNIV 58354	93	847	126,665		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA EDELMAN (DK098246-01)	93	847	545		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HENRY (DK098246)	93	847	24,907		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HENRY(DK098246)	93	847	3,480		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HENRY(DK098246)	93	847	26,464		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA IX (DK097093)	93	847	19,882		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA IX (DK101720)	93	847	54,873		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA IX 310177 DK098234-01A1	93	847	22,453		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA IX 5013860(DK102730)	93	847	1,763		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA VALLON (DK106102)	93	847	-4,575		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA IX (DK102438)	93	847	4,232		
	VIRGINIA COMMONWEALTH UNIVERSITY	1R01DK094818-01A1	93	847	78,423		
	VIRGINIA COMMONWEALTH UNIVERSITY	SUB PD304070-SC106315 (DK105	93	847	465,521		
	WAKE FOREST UNIVERSITY	WFUHS118247	93	847	89,296		
	WAKE FOREST UNIVERSITY	A8904	93	847	-105		
	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-15-284 (DK078669)	93	847	114,238		
	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-15-285 (DK078669)	93	847	23,992		
	YALE UNIVERSITY	M15A11978 (CON-80000330)-CYC	93	847	86,921		
	MCGILL UNIVERSITY	215686	93	847	147,222		
	OKLAHOMA MEDICAL RESEARCH FOUNDATION	0232-06UCLA	93	847	40,105		
	ORGANOVO, INC.	SUB 20182413 (DK115242)	93	847	89,883		
	SYNTR HEALTH TECHNOLOGIES, LLC	SHT-208505-CYC2	93	847	42,067		
					10,878,918	103,391	
	Passthrough/Partial Passthrough						
	CHILDREN'S MERCY HOSPITAL, THE	59331	93	849	-14,928		
	CHILDREN'S MERCY HOSPITAL, THE	SUB 07-005 (DK066143)	93	849	16,374		
	MEDICAL COLLEGE OF WISCONSIN	SUB NONE (DK088831)	93	849	165,185		
	TEXAS BIOMEDICAL RESEARCH INSTITUTE (TEXAS BIOMED)	SUB 16-04613-401 (DK110096)	93	849	216,458		
	THE SCRIPPS RESEARCH INSTITUTE	SUB TSRI-20162946-GODINO(DK1	93	849	301,656		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA AFARI (1 R01 DK106415-01A	93	849	72,918		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA AFARI 316834 (DK106415-0'	93	849	37,894		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GODINO (DK106415)	93	849	7,580		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GOLSHAN 317249 (DK10641	93	849	28,010		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA IX (1U01 DK102730-01)	93	849	27,258		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LANG 316833 (1 R01 DK1064	93	849	9,146		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	83474	93	849	-11,774		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	877EA	93	849	70,545		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA IX (OK101720)	93	849	33,149		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA IX (5 R01 DK101720-03)	93	849	20,622			
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA RIFKIN (DK105314)	93	849	21,007			
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA THOMSON (DK112042)	93	849	49,439			
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA VALLON (DK112042)	93	849	16,403			
				1,066,942			

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	Passthrough/Partial Passthrough					
	CASE WESTERN RESERVE UNIVERSITY	RES512886	93	850	172,015	172,015
	Passthrough/Partial Passthrough					
	ALLEN INSTITUTE FOR BRAIN SCIENCE	R01NS092474	93	853	156,640	
	AUGUSTA UNIVERSITY	31350-1-CYC2	93	853	68,250	
	BETH ISRAEL DEACONESS MEDICAL CENTER	01025970	93	853	67,735	
	BOSTON UNIVERSITY	4500002090	93	853	31,435	
	BOSTON UNIVERSITY	4500002214	93	853	15,804	
	BOSTON UNIVERSITY	A16-0139-003	93	853	71,585	
	BRENTWOOD BIOMEDICAL RESEARCH INSTITUTE	58029	93	853	-2,474	
	BRIGHAM AND WOMEN'S HOSPITAL	SUB 108685 (NS 079201)	93	853	31,627	
	BRIGHAM AND WOMEN'S HOSPITAL	114929-CYC1	93	853	111,498	
	CALIFORNIA INSTITUTE OF TECHNOLOGY	SUB 18B-1097808(NS094403B)	93	853	113,560	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SA0000528 (2R56NS051247)	93	853	-365	
	CASE WESTERN RESERVE UNIVERSITY	RES511434	93	853	372,814	
	CASE WESTERN RESERVE UNIVERSITY	RES513070-CYC1	93	853	98,084	
	CAYETANO HEREDIA UNIVERSITY	80986	93	853	42,502	
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001201720:7	93	853	107,653	
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001201721:1	93	853	161,149	
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001206273:2	93	853	69,243	
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001206274:3	93	853	72,212	
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	0000705381	93	853	58,275	
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001325174:7	93	853	38,271	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	58871	93	853	-3,557	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	SUB 137754 (NS096053)	93	853	259	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	3210390817:5	93	853	74,944	
	COLD SPRING HARBOR LABORATORY	64100112	93	853	205,941	
	COLUMBIA UNIVERSITY	1(GG010432) / G10319	93	853	18,413	
	COLUMBIA UNIVERSITY	1(GG010432-02)	93	853	662	
	COLUMBIA UNIVERSITY	SUB GG010312 (NS078059)	93	853	31,185	
	COLUMBIA UNIVERSITY	2(GG010432-01)	93	853	5,549	
	COLUMBIA UNIVERSITY	3(GG012011-01)	93	853	81,389	
	CORNELL UNIVERSITY	16081320	93	853	11,495	
	CORNELL UNIVERSITY	183412	93	853	61,948	
	DANA-FARBER CANCER INSTITUTE	1278001	93	853	202,923	
	DUKE UNIVERSITY	SUB 2034905 (NS092521)	93	853	292,390	
	EMMES CORPORATION, THE	SUB NONE (NS062835)	93	853	1,328	
	EMORY UNIVERSITY	T423135-CYC1	93	853	170,895	
	GLADSTONE INSTITUTES	R2442-A	93	853	227,462	
	GLADSTONE INSTITUTES	R2442-C	93	853	459,536	
	GLADSTONE INSTITUTES	R2442-D	93	853	63,126	
	GLADSTONE INSTITUTES	R2442-E	93	853	174,328	
	GLADSTONE INSTITUTES	SUB R2400-A (NS094342)	93	853	549,040	
	GLADSTONE INSTITUTES	SUB R2432-A (NS097976)	93	853	110,695	
	GLADSTONE INSTITUTES	R01774-B	93	853	-2,610	
	GLADSTONE INSTITUTES	R02082-A	93	853	9,632	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-0642-4609:1	93	853	400,385	
	INSTITUTE FOR MOLECULAR MEDICINE, INC. (CALIFORNIA)	UCI-2014-56074-CYC3	93	853	117,374	
	INSTITUTE FOR MOLECULAR MEDICINE, INC. (CALIFORNIA)	UCI-2014-56212-CYC3	93	853	100,062	
	IOWA STATE UNIVERSITY	4301738A	93	853	40,621	
	JOHNS HOPKINS UNIVERSITY	2003042369:2	93	853	51,857	
	JOHNS HOPKINS UNIVERSITY	SUB 2002110195 (NS080824)	93	853	630	
	JOHNS HOPKINS UNIVERSITY	58981	93	853	-8,081	
	JOHNS HOPKINS UNIVERSITY	59722	93	853	-585	
	KAISER PERMANENTE DIVISION OF RESEARCH	115-7290/1514-01	93	853	62,755	
	KAISER PERMANENTE DIVISION OF RESEARCH	115-9703/1301-01	93	853	144,972	
	KENNEDY KRIEGER INSTITUTE	1K12NS098482-01-CYC1	93	853	136,392	
	LUDWIG INSTITUTE FOR CANCER RESEARCH	233308-05012:01	93	853	14,028	
	LUDWIG INSTITUTE FOR CANCER RESEARCH	SUB 240630-05003 (NS027036)	93	853	11,211	
	MASSACHUSETTS GENERAL HOSPITAL	201604272	93	853	35,144	
	MASSACHUSETTS GENERAL HOSPITAL	20164300	93	853	27,561	
	MASSACHUSETTS GENERAL HOSPITAL	226396	93	853	45,737	
	MASSACHUSETTS GENERAL HOSPITAL	59781	93	853	-270	
	MASSACHUSETTS GENERAL HOSPITAL	NN103	93	853	3,912	
	MASSACHUSETTS GENERAL HOSPITAL	79011	93	853	4,890	
	MASSACHUSETTS GENERAL HOSPITAL	A18-0600-001	93	853	1,344	
	MASSACHUSETTS GENERAL HOSPITAL	NN107	93	853	22,230	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003857-CYC1	93	853	218,324	

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF HEALTH AND HUMAN SERVICES	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	87412	93	853	-4,074	
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	A126507	93	853	304	
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	CLA-232463	93	853	83,185	
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	THE-224063	93	853	12,457	
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	UH2NS095495	93	853	73,950	
	MEDICAL UNIVERSITY OF SOUTH CAROLINA	MUSC14-016:FIVE(5)	93	853	10,768	
	MICHIGAN STATE UNIVERSITY	88257	93	853	543	
	MOREHOUSE SCHOOL OF MEDICINE	008650	93	853	159,842	
	NEURAL ANALYTICS	2R44NS092209-2	93	853	397,677	
	NORTHWESTERN UNIVERSITY	1U01NS080818-01A1	93	853	15,807	
	NORTHWESTERN UNIVERSITY	60042630 UCD	93	853	55,630	
	NORTHWESTERN UNIVERSITY	R01NS080619	93	853	64,934	
	NORTHWESTERN UNIVERSITY	SUB 60036745 UCSD (NS080818)	93	853	61,506	
	NORTHWESTERN UNIVERSITY	60036745 UC-CYC5	93	853	21,700	
	NORTHWESTERN UNIVERSITY	60041563 UCI-CYC2	93	853	129,693	
	POSIT SCIENCE CORPORATION	20152305	93	853	74,660	
	PRINCETON UNIVERSITY	U19NS104648	93	853	66,074	
	ROCKEFELLER UNIVERSITY	R01NS083823:1	93	853	36	
	RUSH UNIVERSITY MEDICAL CENTER	15060903-SUB03	93	853	123,170	
	SANFORD RESEARCH	SR-2014-25	93	853	3,040	
	SCINTILLON INSTITUTE	874E3	93	853	-6,131	
	SEACOAST SCIENCE, INC.	16-1004SC-CYC1	93	853	104,612	
	SEPULVEDA RESEARCH CORPORATION	LAI0004_UC03:3	93	853	130,399	
	ST. JOSEPH'S HOSPITAL AND MEDICAL CENTER	UCLA32322:1	93	853	104,702	
	STANFORD UNIVERSITY	61288309-120633	93	853	46,980	
	STANFORD UNIVERSITY	61304878-12317E	93	853	1,423	
	STANFORD UNIVERSITY	61311381-124387-CYC1	93	853	63,610	
	STANFORD UNIVERSITY	61318549-12054-CYC2	93	853	79,593	
	THE UNIVERSITY OF ALABAMA (TUSCALOOSA)	000508025-001	93	853	30,611	
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000510297-005-A01	93	853	35,174	
	THOMAS JEFFERSON UNIVERSITY	080-19000-K07201	93	853	12,870	
	UNIVERSITY OF CHICAGO	FP060364-CYC2	93	853	55,115	
	UNIVERSITY OF CHICAGO	FP066261-G	93	853	36,087	
	UNIVERSITY OF CHICAGO	SUB FP063810-D(OD023281)	93	853	84,387	
	UNIVERSITY OF CINCINNATI	008822-ADM-CRAMER-CYC1	93	853	103,539	
	UNIVERSITY OF CINCINNATI	80321	93	853	-413	
	UNIVERSITY OF CINCINNATI	SUB 010085-119530 (NS092076)	93	853	2,770	
	UNIVERSITY OF CINCINNATI	008822-ADM-SAVER-1:3	93	853	38,372	
	UNIVERSITY OF CINCINNATI	010085-135728	93	853	3,365	
	UNIVERSITY OF CINCINNATI	8734E	93	853	-37,880	
	UNIVERSITY OF CINCINNATI	SUB 010785-135727 (NS095869)	93	853	3,465	
	UNIVERSITY OF CINCINNATI	SUB 135727(NS091951)	93	853	13,925	
	UNIVERSITY OF CINCINNATI	U01NS091951-133897-CYC4	93	853	38,412	
	UNIVERSITY OF FLORIDA	UFDSP00010612-CYC3	93	853	90,188	
	UNIVERSITY OF IOWA	80389	93	853	1	
	UNIVERSITY OF IOWA	W000873022	93	853	67,403	
	UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	SUB 3210000405-17-136 (NS0971)	93	853	221,739	
	UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	3200001169-17-202	93	853	95,827	
	UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	SUB 3048112415-17-189 (NS0708)	93	853	31,670	
	UNIVERSITY OF MIAMI	SUB 664008 (NS092091)	93	853	-170,381	
	UNIVERSITY OF MIAMI	665673-CYC2	93	853	72,011	
	UNIVERSITY OF MIAMI	669245:3	93	853	78,516	
	UNIVERSITY OF MIAMI	SPC-000308	93	853	30,553	
	UNIVERSITY OF MICHIGAN	3002987750	93	853	8,173	
	UNIVERSITY OF MICHIGAN	3004167516	93	853	397,454	
	UNIVERSITY OF MICHIGAN	10622	93	853	3,500	
	UNIVERSITY OF MICHIGAN	3002112002-SHN	93	853	-61,565	
	UNIVERSITY OF MICHIGAN	3002348507-SHN:22	93	853	11,944	
	UNIVERSITY OF MICHIGAN	3002773601-ISPOT:25	93	853	1,143	
	UNIVERSITY OF MICHIGAN	3004730634	93	853	27,476	
	UNIVERSITY OF MICHIGAN	A9796	93	853	38	
	UNIVERSITY OF MICHIGAN	B2366	93	853	-5,750	
	UNIVERSITY OF MICHIGAN	SUBK00004112-ESETT	93	853	158,918	
	UNIVERSITY OF MICHIGAN	SUBK00004114-ESETT:27	93	853	18,265	2,500
	UNIVERSITY OF MONTANA	PG16-64514-03	93	853	293,768	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5108837	93	853	17,120	
	UNIVERSITY OF PENNSYLVANIA	566106-CYC3	93	853	23,471	
	UNIVERSITY OF PENNSYLVANIA	572024	93	853	80,487	
	UNIVERSITY OF PITTSBURGH	0030451(123192)	93	853	3,696	
	UNIVERSITY OF PITTSBURGH	0044484(125590-1)	93	853	-47,568	
	UNIVERSITY OF PITTSBURGH	57605	93	853	12,724	

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			Prefix	Extension			
DEPARTMENT OF HEALTH AND HUMAN SERVICES	UNIVERSITY OF PITTSBURGH	89043	93	853	28,200		
	UNIVERSITY OF ROCHESTER	415681-G/5-27019	93	853	1,502		
	UNIVERSITY OF ROCHESTER	41668:4	93	853	1,954		
	UNIVERSITY OF ROCHESTER	417100URFAOGR510660	93	853	245		
	UNIVERSITY OF SOUTHERN CALIFORNIA	84718050	93	853	828,463		
	UNIVERSITY OF SOUTHERN CALIFORNIA	85744618	93	853	59,656		
	UNIVERSITY OF TENNESSEE HEALTH SCIENCE CENTER	18-3078 UCI-CYC1	93	853	6,379		
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0012260C-CYC2	93	853	138,631		
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	81800	93	853	4,400		
	UNIVERSITY OF TEXAS-AUSTIN	UTA17-000609	93	853	7,755,760	6,506,954	
	UNIVERSITY OF TEXAS-AUSTIN	A00-0486-005	93	853	8,357		
	UNIVERSITY OF UTAH	10035100-01:2	93	853	122,356		
	UNIVERSITY OF VERMONT	27988SUBS1551-CYC4	93	853	522		
	UNIVERSITY OF VIRGINIA	GB10094-147357	93	853	67,383		
	UNIVERSITY OF VIRGINIA	GB10094154461	93	853	46,000		
	UNIVERSITY OF VIRGINIA	R01NS099653	93	853	2,300		
	UNIVERSITY OF WASHINGTON	57611	93	853	-6,753		
	UNIVERSITY OF WASHINGTON	752137	93	853	12,764		
	UNIVERSITY OF WASHINGTON	78692	93	853	-971		
	UNIVERSITY OF WASHINGTON	87626	93	853	415		
	UNIVERSITY OF WASHINGTON	88783	93	853	-12,992		
	UNIVERSITY OF WISCONSIN SYSTEM	SUB 547K304 (NS083688)	93	853	168,450		
	UNIVERSITY OF WISCONSIN-MADISON	SUB 578K325 (NS083514)	93	853	89,312		
	YALE UNIVERSITY	M14A11621 (A09205)	93	853	23,989		
	YESHIVA UNIVERSITY	311172	93	853	108,964		
	ALBERT EINSTEIN COLLEGE OF MEDICINE INC.	R01NS104911	93	853	111,189		
	ALBERT EINSTEIN COLLEGE OF MEDICINE INC.	SUB 311235 (NS104911)	93	853	124,005		
	WINSANTOR INC	SUB NONE (NS105177)	93	853	137,047		
	NEURALSTEM INC.	SUB 20172379 (R44NS103703)	93	853	74,115		
	COLUMBIA UNIVERSITY	1(GG012976-05)	93	853	44,940		
					19,566,256	6,576,159	
		Passthrough/Partial Passthrough					
		AMERICAN ONCOLOGIC HOSPITAL	SUB CORE B (A1102853)	93	855	205,780	
		AMERICAN ONCOLOGIC HOSPITAL	SUB PROJECT 4 (A1102853)	93	855	337,992	
		ANTIGEN DISCOVERY, INC	AD1-203880-CYC1	93	855	51,857	
		ARIMA GENOMICS, INC.	SUB 20171427 (R43AI124837)	93	855	7,851	
		ARISAN THERAPEUTICS	A17-0366-001	93	855	28,384	
		ARIZONA STATE UNIVERSITY/TEMPE	16-964:1	93	855	82,034	
		BAYLOR COLLEGE OF MEDICINE	7000000260	93	855	149,150	
		BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY14ITN078	93	855	17,697	
		BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY15ITN160	93	855	117,220	
		BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY16ITN047	93	855	18,539	
		BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY16ITN182	93	855	29,988	
		BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY16ITN186	93	855	12,888	
		BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY16ITN207	93	855	96,105	
	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	1UM1A1109565 01	93	855	1,258		
	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY14ITN098	93	855	33,335		
	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY14ITN053	93	855	41,609		
	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY15ITN104	93	855	242,883		
	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY17ITN057	93	855	7,138,733		
	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY17ITN199-01	93	855	33,378		
	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY17ITN258	93	855	4,987		
	BETH ISRAEL DEACONESS MEDICAL CENTER	01029108	93	855	73,838		
	BLOOD SYSTEMS, INC. DBA BLOOD SYSTEMS RESEARCH INSTITUTE	11530UCD150	93	855	184,799		
	BOSTON MEDICAL CENTER CORPORATION	0371101	93	855	17,370		
	BOSTON UNIVERSITY	4500002391	93	855	28,229		
	BOSTON UNIVERSITY	4500002399	93	855	26,804		
	BRIGHAM AND WOMEN'S HOSPITAL	109925	93	855	299,394		
	BRIGHAM AND WOMEN'S HOSPITAL	110007	93	855	15,159		
	BRIGHAM AND WOMEN'S HOSPITAL	110237	93	855	5,305		
	BRIGHAM AND WOMEN'S HOSPITAL	110256	93	855	20		
	BRIGHAM AND WOMEN'S HOSPITAL	SUB 108561 (A1068636)	93	855	20,410		
	BRIGHAM AND WOMEN'S HOSPITAL	SUB 110009 (A1068636)	93	855	98,309		
	BRIGHAM AND WOMEN'S HOSPITAL	SUB 110080 (A1 068636)	93	855	24,717		
	BRIGHAM AND WOMEN'S HOSPITAL	SUB 110206 (A1068636)	93	855	977,362		
	BRIGHAM AND WOMEN'S HOSPITAL	110008:3	93	855	279,028		
	BRIGHAM AND WOMEN'S HOSPITAL	110009:2	93	855	48,707		
	BRIGHAM AND WOMEN'S HOSPITAL	110207:4	93	855	116,359		
	BRIGHAM AND WOMEN'S HOSPITAL	110229	93	855	39,362		
	BRIGHAM AND WOMEN'S HOSPITAL	110238	93	855	10,639		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	BRIGHAM AND WOMEN'S HOSPITAL	110668	93	855	9,286	
	BRIGHAM AND WOMEN'S HOSPITAL	111669:2	93	855	175,251	
	BRIGHAM AND WOMEN'S HOSPITAL	114868	93	855	60,248	
	BRIGHAM AND WOMEN'S HOSPITAL	114959	93	855	3,666	
	BRIGHAM AND WOMEN'S HOSPITAL	117056	93	855	21,288	
	BRIGHAM AND WOMEN'S HOSPITAL	117291	93	855	6,512,446	3,954,093
	BRIGHAM AND WOMEN'S HOSPITAL	20171359	93	855	16,035	
	BRIGHAM AND WOMEN'S HOSPITAL	80702	93	855	10,820	
	BRIGHAM AND WOMEN'S HOSPITAL	SUB 110299 (A1068636)	93	855	23,850	
	BRIGHAM AND WOMEN'S HOSPITAL	SUB 116529 (A1068636)	93	855	4,165	
	BROWN UNIVERSITY	00000979	93	855	1,679	
	BUCK INSTITUTE FOR RESEARCH ON AGING	SA14003-UC	93	855	15,812	
	CASE WESTERN RESERVE UNIVERSITY	RES509997-CYC1	93	855	176,750	
	CASE WESTERN RESERVE UNIVERSITY	RES512472	93	855	45,843	
	CAYETANO HEREDIA UNIVERSITY	R01A1099727:5	93	855	5,766	
	CHILD FAMILY HEALTH INTERNATIONAL	SUB HPTN-MGA-REGUC-1 (A1069E)	93	855	1,313,350	1,304,772
	CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION	128217002	93	855	5,532	
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001471889-CYC1	93	855	1,520	
	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	RSTFD0000665451:5	93	855	-290	
	CHILDREN'S HOSPITAL LOS ANGELES	89130	93	855	-13,256	
	CHILDREN'S HOSPITAL LOS ANGELES	89149	93	855	-232,261	
	CHILDREN'S HOSPITAL LOS ANGELES	RGF010603-D	93	855	7,138	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	SUB 135407 (A1117804)	93	855	105,434	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	137646:04	93	855	18,995	
	COLORADO STATE UNIVERSITY	G-14944-1	93	855	82,643	
	COLORADO STATE UNIVERSITY	88578	93	855	39,276	
	COLUMBIA UNIVERSITY	7(GG008377-19)	93	855	252,668	
	COLUMBIA UNIVERSITY	07(GG011896-34)	93	855	137,843	
	COLUMBIA UNIVERSITY	11(GG011896-21)	93	855	153,155	
	COLUMBIA UNIVERSITY	14(GG011896-21)	93	855	168,515	
	COLUMBIA UNIVERSITY	8(GG011896-21)	93	855	145,847	
	COLUMBIA UNIVERSITY	U54A1138370	93	855	18,138	
	CORNELL UNIVERSITY	73829-10836	93	855	5,216	
	DANA-FARBER CANCER INSTITUTE	1235903	93	855	69,222	
	DARTMOUTH COLLEGE	009256	93	855	6,969	
	DARTMOUTH COLLEGE	009399	93	855	52,414	
	DUKE UNIVERSITY	20164584	93	855	8,998	
	DUKE UNIVERSITY	2032191	93	855	1,438,580	
	DUKE UNIVERSITY	2034442	93	855	-4,889	
	DUKE UNIVERSITY	2035602	93	855	61,009	
	DUKE UNIVERSITY	2036057	93	855	128,189	
	DUKE UNIVERSITY	2038087	93	855	197,244	
	DUKE UNIVERSITY	203-8252	93	855	935,953	
	DUKE UNIVERSITY	89192	93	855	-250	
	DUKE UNIVERSITY	B1048	93	855	-13,215	
	DUKE UNIVERSITY	PRM:R01A1103315	93	855	4,956	
	DUKE UNIVERSITY	203-7713	93	855	53,736	
	DUKE UNIVERSITY	203-8462	93	855	1,291	
	DUKE UNIVERSITY	2037021	93	855	4,439	
	DUKE UNIVERSITY	206993; OPP2 MOD 1	93	855	4,513	
DUKE UNIVERSITY	225440	93	855	13,203		
DUKE UNIVERSITY	57254	93	855	-15,957		
DUKE UNIVERSITY	80042	93	855	9,180		
EMORY UNIVERSITY	SUB P30A1050409 (T686546)	93	855	14,306		
EMORY UNIVERSITY	SUB S899904 (A1090023)	93	855	202,782		
EMORY UNIVERSITY	T556863	93	855	138,708		
EMORY UNIVERSITY	T623107	93	855	46,680		
EMORY UNIVERSITY	A8563	93	855	126		
FHI 360	09-487-8337	93	855	1,866,083	1,819,019	
FHI 360	20174142	93	855	1,266,984		
FHI 360	P016002746	93	855	41,978		
FHI 360	P016002747	93	855	37,854		
FHI 360	PO#15001679:1	93	855	124,163		
FHI 360	SUB 1600119 (A1068619)	93	855	223,790	22,018	
FHI 360	SUB 952/0100.0141 (A1068619)	93	855	12,189		
FHI 360	865/0080.0020:18	93	855	19,560		
FHI 360	PO15001941	93	855	5,375		
FHI 360	PO15002977:05	93	855	45,263		
FHI 360	PO15004412:04	93	855	812,050		
FHI 360	PO16002756	93	855	2,583		
FHI 360	PO16002764:01	93	855	-117,968	4,710	

UNIVERSITY OF CALIFORNIA
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 For the Fiscal Year Ended June 30, 2018

Cluster Programs and Federal Agencies	Federal Direct / Pass-Through and Partial Pass-Through	Agency/PassThrough Identifier or Other Identifier	Federal CFDA #		Federal Expenditures	Pass-thru for Subrecipients
			Prefix	Extension		
DEPARTMENT OF HEALTH AND HUMAN SERVICES	FHI 360	PO17002026	93	855	18,595	
	FORSYTH INSTITUTE, THE	UCSF101018-2580	93	855	34,525	
	FORSYTH INSTITUTE, THE	B1298	93	855	-19	
	FRED HUTCHINSON CANCER RESEARCH CENTER	0000849597	93	855	15	
	FRED HUTCHINSON CANCER RESEARCH CENTER	0000888301	93	855	50,619	
	FRED HUTCHINSON CANCER RESEARCH CENTER	SUB 0000879576 (A1122978)	93	855	80,223	
	FRED HUTCHINSON CANCER RESEARCH CENTER	0000887684	93	855	25,371	
	FRED HUTCHINSON CANCER RESEARCH CENTER	0000892014	93	855	5,003	
	FRED HUTCHINSON CANCER RESEARCH CENTER	0000903493	93	855	31,136	
	FRED HUTCHINSON CANCER RESEARCH CENTER	SUB 0000929249 (A1068618)	93	855	10,182	
	GEORGE WASHINGTON UNIVERSITY	16-M55	93	855	223,993	
	GEORGETOWN UNIVERSITY	SUB 4111316_GR411240-UCSD AW	93	855	107,634	
	GEORGIA INSTITUTE OF TECHNOLOGY	RE606-G1	93	855	11,243	
	GEORGIA STATE UNIVERSITY	SP00012833-03-CYC1	93	855	225,762	
	GLADSTONE INSTITUTES	R2462-A	93	855	154,197	
	HARVARD UNIVERSITY	008714	93	855	36,931	
	HARVARD UNIVERSITY	114205-1379-5107412	93	855	83,736	
	HARVARD UNIVERSITY	116543.5108413	93	855	5,358	
	HENRY FORD HEALTH SYSTEM	A120210	93	855	27,670	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0254-3241-4609	93	855	437,618	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-1352-4609	93	855	71,173	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-1366-4609	93	855	122,538	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	025578414609	93	855	160,876	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	B9447	93	855	54,632	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	SUB 0254-3241-4609 (A1106754)	93	855	312,989	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	SUB 0254-3243-4609 (A1106754)	93	855	792,646	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0254-3245-4609	93	855	156,948	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-1281-4609:1	93	855	36,762	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-1361-4609	93	855	380,161	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-1361-4609:5	93	855	6,168	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-1369-4609	93	855	44,069	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-8649-4609	93	855	304,409	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	89088	93	855	12,966	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	89658	93	855	448	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	C1507	93	855	128,301	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	C1867	93	855	132,332	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	SUB 0255-A131-4609 (A1135972)	93	855	16,327	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-8661-4609	93	855	4,793	
	IMMUNE DEFICIENCY FOUNDATION	2U24A1086037-06	93	855	40,548	
	INDIANA UNIVERSITY	IN4688399 UCSFA	93	855	418,282	
	INDIANA UNIVERSITY	IN4688399UCSF B	93	855	128,649	
	INDIANA UNIVERSITY	009351	93	855	21,496	
	INDIANA UNIVERSITY	A8133	93	855	-4	
	INTEGRATED BIOTHERAPEUTICS, INC	R56TOXVAX-UCSF-Y1	93	855	290,910	
	IOWA STATE UNIVERSITY	430-40-09A	93	855	3,333	
	IOWA STATE UNIVERSITY	430-40-16A	93	855	296,406	
	JOHNS HOPKINS UNIVERSITY	2002259596	93	855	-1,303	
	JOHNS HOPKINS UNIVERSITY	2002656257	93	855	26,611	
	JOHNS HOPKINS UNIVERSITY	2003036375	93	855	98,591	
	JOHNS HOPKINS UNIVERSITY	2003124717	93	855	99,989	
	JOHNS HOPKINS UNIVERSITY	2003151007	93	855	126,105	
	JOHNS HOPKINS UNIVERSITY	2003273070(A1068632)	93	855	69,009	
	JOHNS HOPKINS UNIVERSITY	SUB 2000303655(A1069918)	93	855	52,979	
	JOHNS HOPKINS UNIVERSITY	SUB 2002263085 (A1068632)	93	855	-5,280	
	JOHNS HOPKINS UNIVERSITY	SUB 2002283571 (A1068632)	93	855	438,239	
	JOHNS HOPKINS UNIVERSITY	SUB 2002432333 (A1068632)	93	855	-4,325	
	JOHNS HOPKINS UNIVERSITY	SUB 2002438807 (A1068632)	93	855	159,288	
	JOHNS HOPKINS UNIVERSITY	UM1A1068632	93	855	31,152	
	JOHNS HOPKINS UNIVERSITY	2001586402:6	93	855	-194	
	JOHNS HOPKINS UNIVERSITY	2002170251	93	855	106,864	
	JOHNS HOPKINS UNIVERSITY	2002240584	93	855	26,517	
	JOHNS HOPKINS UNIVERSITY	2002292916:03	93	855	29,268	
	JOHNS HOPKINS UNIVERSITY	2002292921:03	93	855	31,581	
	JOHNS HOPKINS UNIVERSITY	2002292925:03	93	855	9,343	
	JOHNS HOPKINS UNIVERSITY	2002302024:03	93	855	11,483	
	JOHNS HOPKINS UNIVERSITY	2002347229:2	93	855	1,997	
	JOHNS HOPKINS UNIVERSITY	2002425863	93	855	23,711	
	JOHNS HOPKINS UNIVERSITY	2003229857:1	93	855	81,148	
	JOHNS HOPKINS UNIVERSITY	2003414575	93	855	36,410	
	JOHNS HOPKINS UNIVERSITY	2003696887	93	855	8,459	
	JOHNS HOPKINS UNIVERSITY	20141864:3	93	855	248,115	

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF HEALTH AND HUMAN SERVICES	JOHNS HOPKINS UNIVERSITY	81049	93	855	41,678	
	JOHNS HOPKINS UNIVERSITY	A8467	93	855	-1,004	
	JOHNS HOPKINS UNIVERSITY	B7080	93	855	-35	
	JOHNS HOPKINS UNIVERSITY	LDR 04:01	93	855	691,692	
	JOHNS HOPKINS UNIVERSITY	SUB 2003749517 (A1068632)	93	855	2,144	
	LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY	20025-03-381	93	855	23,094	
	LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY	SUB 26244-44-382 (A1109976)	93	855	488,572	
	LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY	88439	93	855	-917	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B621111-CYC1	93	855	40,586	
	LOS ANGELES BIOMEDICAL RESEARCH INSTITUTE AT HARBOR-UCLA MEDICAL CTR	30685-UCLA:1	93	855	509,848	
	MAGEE-WOMENS HOSPITAL, RESEARCH INSTITUTE AND FOUNDATION	9529	93	855	196,395	
	MASSACHUSETTS GENERAL HOSPITAL	114342:1	93	855	249	
	MASSACHUSETTS GENERAL HOSPITAL	227111:3	93	855	3,132	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710004135-CYC2	93	855	8,399	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SUB PO 92801 (A1126465)	93	855	106,915	
	MAVERIX BIOMICS, INC.	A17-0165-001	93	855	52,155	
	MAVERIX BIOMICS, INC.	57571	93	855	-100	
	MBIO DIAGNOSTICS, INC.	SUB NONE (A196189)	93	855	4,670	
	MBIO DIAGNOSTICS, INC.	89092	93	855	3,006	
	MEMORIAL SLOAN-KETTERING CANCER CENTER	SUB BD21131 (A1128517)	93	855	98,683	
	MOUNT SINAI MEDICAL CENTER	0255-1366-4609	93	855	91,461	
	MOUNT SINAI MEDICAL CENTER	81106	93	855	-303	
	NATIONAL JEWISH HEALTH	SUB 2020096801 (A1117673)	93	855	923,567	
	NATIONAL JEWISH HEALTH	SUB 20098103 (A1117673)	93	855	230,223	
	NATIONWIDE CHILDREN'S HOSPITAL	B5245	93	855	8,715	
	NEW YORK UNIVERSITY	15-A0-00-004739-01:1	93	855	100,103	
	NORTH CAROLINA STATE UNIVERSITY	A18-0598-001	93	855	25,475	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	SUB SUL1847-04 (A1106987)	93	855	77,955	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	SUL1847-03	93	855	29,637	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	WONG1862	93	855	183,237	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	WONG1924-02	93	855	70,556	
	NORTHROP GRUMMAN SYSTEMS CORPORATION	7500157108	93	855	494,295	
	NORTHWESTERN UNIVERSITY	59029	93	855	-17,429	
	OAK CREST INSTITUTE OF SCIENCE	S14-164 UCLA: 5	93	855	70,267	
	OAK CREST INSTITUTE OF SCIENCE	SUB S14-164 (A1113048)	93	855	89,827	
	OHIO STATE UNIVERSITY	60054601	93	855	58,571	
	OREGON HEALTH & SCIENCE UNIVERSITY	900652UCDBARRY	93	855	20,147	
	OREGON HEALTH & SCIENCE UNIVERSITY	871F5	93	855	-1,707	
	PARTNERS HEALTHCARE SYSTEM, INC	224471	93	855	45,153	
	PENNSYLVANIA STATE UNIVERSITY	4281-UCI-DHHS-9672-CYC8	93	855	-5	
	PENNSYLVANIA STATE UNIVERSITY	5233-UCI-DHHS-0793-CYC3	93	855	38,814	
	PENNSYLVANIA STATE UNIVERSITY	5678-UCI-DHHS-9672-CYC1	93	855	40,363	
	PENNSYLVANIA STATE UNIVERSITY	89044	93	855	251	
	PHASE DIAGNOSTICS, INC.	77761	93	855	54,641	
	PROFIL INSTITUTE FOR CLINICAL RESEARCH, INC.	8576A	93	855	30,044	
	ROCKEFELLER UNIVERSITY	5R37A1037526	93	855	158,119	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	108614	93	855	119,387	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	8127	93	855	197,148	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	R01A1106398	93	855	154,181	
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	58295-12468-UCB	93	855	305,934	
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	57659-12538-UCI-CYC7	93	855	230	
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	59560-12797-UCLA:1	93	855	96,757	
	SILVER LAKE RESEARCH CORPORATION	041776	93	855	351,786	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-SSS-S-15-004631	93	855	228,927	
	STANFORD UNIVERSITY	1U19A1109662-01	93	855	300,361	
	STANFORD UNIVERSITY	60892242-584	93	855	35,750	
	STANFORD UNIVERSITY	61097839-48307	93	855	12,944	
	STANFORD UNIVERSITY	60625362-107582:4	93	855	35,417	
	STANFORD UNIVERSITY	61444536-120705	93	855	35,742	
	SUSTAINABLE SCIENCES INSTITUTE	IR1200-1	93	855	6,781	
	TEMPLE UNIVERSITY	262177-UC	93	855	12,141	
	TEXAS A&M RESEARCH FOUNDATION	P01A1095208	93	855	11	
	TEXAS A&M UNIVERSITY - COLLEGE STATION	99-S130607-CYC5	93	855	45,467	
	TEXAS BIOMEDICAL RESEARCH INSTITUTE (TEXAS BIOMED)	15-4547-003:1	93	855	57,783	
	THE SCRIPPS RESEARCH INSTITUTE	80299	93	855	12,852	
	THE TEXAS A&M UNIVERSITY SYSTEM	SUB M1800750 (A1127807)	93	855	18,644	
	THE UNIVERSITY OF ALABAMA (TUSCALOOSA)	SUB 397076-013 (A1067039)	93	855	-25,163	
	THE UNIVERSITY OF ALABAMA (TUSCALOOSA)	A9174	93	855	56	
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000510836-005	93	855	479,708	
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000510836-007	93	855	84,178	
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000503356-SP002-023(A1027)	93	855	207,063	

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			Prefix	Extension		
DEPARTMENT OF HEALTH AND HUMAN SERVICES	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 510836-004(AI067039)	93	855	381,640	
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000503356-SP002-020(AI027	93	855	195,677	
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000503356-SP002-029 (AI02	93	855	59,694	
	UNIVERSITY HOSPITAL BASEL	4609/199	93	855	22,200	
	UNIVERSITY OF ARIZONA	408440	93	855	124,366	
	UNIVERSITY OF CHICAGO	88166	93	855	-1,570	
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	FY16.206.002:2	93	855	303,152	
	UNIVERSITY OF CONNECTICUT	UCH641200355	93	855	364,195	
	UNIVERSITY OF GEORGIA	RR374-126/S001202-CYC1	93	855	236,670	
	UNIVERSITY OF HAWAII AT MANOA	KA1128	93	855	10,794	
	UNIVERSITY OF IDAHO	R56A1118926	93	855	45,410	
	UNIVERSITY OF ILLINOIS	78707	93	855	-29,303	
	UNIVERSITY OF MARYLAND	1600691:1	93	855	-2,035	
	UNIVERSITY OF MASSACHUSETTS AMHERST	SUB WA00324479/RFS2016020 (A	93	855	130,501	
	UNIVERSITY OF MIAMI	SPC-000417	93	855	50,325	
	UNIVERSITY OF MICHIGAN	A18-0705-001	93	855	5,069	
	UNIVERSITY OF MICHIGAN	3004686906	93	855	16,909	
	UNIVERSITY OF MINNESOTA	P004756918	93	855	-17,517	
	UNIVERSITY OF MINNESOTA	P004756920	93	855	-603	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	1R01A1114310-01	93	855	55,836	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5103294	93	855	107,600	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	534272	93	855	-75,659	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5106135	93	855	20,519	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	SUB 5109463 (A1109965)	93	855	57,818	
	UNIVERSITY OF PENNSYLVANIA	3870974	93	855	66,278	
	UNIVERSITY OF PENNSYLVANIA	560928	93	855	34,423	
	UNIVERSITY OF PENNSYLVANIA	SUB 560574 (A1052845)	93	855	20,573	
	UNIVERSITY OF PENNSYLVANIA	30A20	93	855	842	
	UNIVERSITY OF PITTSBURGH	0044312	93	855	58,131	
	UNIVERSITY OF PITTSBURGH	00507171276751	93	855	55,069	
	UNIVERSITY OF ROCHESTER	87686	93	855	-3,634	
	UNIVERSITY OF SOUTH FLORIDA	008507	93	855	2,549	
	UNIVERSITY OF SOUTH FLORIDA	6144-1094-00-A	93	855	94,996	
	UNIVERSITY OF SOUTH FLORIDA	009365	93	855	134,775	
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	159227	93	855	47,931	
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	159539/159538-CYC2	93	855	17,205	
	UNIVERSITY OF WASHINGTON	006406	93	855	93,104	
	UNIVERSITY OF WASHINGTON	008046	93	855	38,335	
	UNIVERSITY OF WASHINGTON	UWSC9531	93	855	62,966	
	UNIVERSITY OF WASHINGTON	11593SUB:1	93	855	82,738	
	UNIVERSITY OF WASHINGTON	UWSC10418	93	855	5,997	
	UNIVERSITY OF WASHINGTON	UWSC7071-CYC5	93	855	22,744	
	UNIVERSITY OF WASHINGTON	WU-16-67-CYC3	93	855	46,099	
	UNIVERSITY OF WISCONSIN-MADISON	1UM1A1114271-01	93	855	656,746	
	UNIVERSITY OF WISCONSIN-MADISON	01A11163282	93	855	15,298	
	UNIVERSITY OF WISCONSIN-MADISON	89291	93	855	-8,558	
	UPMC	9455	93	855	13,416	
	VANDERBILT UNIVERSITY	89315	93	855	-4,924	
	VANDERBILT UNIVERSITY	A128173	93	855	-11	
	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC 59104	93	855	103,273	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GUATELLI (A1116194)	93	855	8,425	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GUATELLI 313326 (A111439;	93	855	2,008	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GUATELLI, JOHN C (C13A115	93	855	46,896	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LOONEY (A1104283)	93	855	13,051	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LOONEY 309176 (A1036214)	93	855	9,481	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA RICHMAN 25281-14-3249(A11	93	855	32,710	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA STRAIN (A1104283)	93	855	20,478	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	83421	93	855	-2,992	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	89052	93	855	-786	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	88053	93	855	-2,204	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GUATELLI C13A11599 (A1091	93	855	41,158	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA STRAIN(A1104283)	93	855	4,779	
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU1719	93	855	114,051	
	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-18-240 (A1095542)	93	855	27,283	
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU18241	93	855	74,717	
	YALE UNIVERSITY	M13A11463 (A08900)	93	855	277	
	YALE UNIVERSITY	M15A12208 (A10336)	93	855	36,269	
	YALE UNIVERSITY	M16A12429	93	855	23,395	
	YALE UNIVERSITY	GK000160 (CON-80000452)-CYC:	93	855	106,627	
	YESHIVA UNIVERSITY	310429	93	855	6,426	
	YESHIVA UNIVERSITY	88587	93	855	-18,479	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	HELUNA HEALTH	A122745	93	855	419,865	
	NEW YORK UNIVERSITY SCHOOL OF MEDICINE	R01A1124471	93	855	27,157	
	MICROBEDX INC.	210954-CYC1	93	855	44,571	
	INSTITUTE FOR CLINICAL RESEARCH	83327	93	855	12,342	
	LIGNAMED, LLC	A17-0459	93	855	150,000	
	MABDX INC.	A18-1079	93	855	42,993	
	METHODIST HOSPITAL RESEARCH INSTITUTE, THE	11030006	93	855	133,561	
	THE HEKTOEN INSTITUTE OF MEDICINE	50616-324-UCSF01	93	855	37,288	
	UNIVERSITY OF TORONTO	503460	93	855	184,127	
	VIVREON BIOSCIENCES, LLC	VB-208807-CYC1	93	855	44,193	
					48,344,585	7,104,613
	Passthrough/Partial Passthrough					
	BRIGHAM AND WOMEN'S HOSPITAL	SUB 113091 (A1068636)	93	856	100,813	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SUB SA0000592 (HD088688)	93	856	105,408	
	DESIGNMEDIX, INC.	SUB 20153835 (A1118089)	93	856	123,419	
	DUKE UNIVERSITY	203-8488	93	856	-26	
	DUKE UNIVERSITY	SUB NONE (A1103315)	93	856	-8,148	
	EMORY UNIVERSITY	SUB T563785 (A1090023)	93	856	82,321	
	NORTHEASTERN UNIVERSITY	SUB 500512-78050 (A1127594)	93	856	47,800	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	82547	93	856	-6,553	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	83302	93	856	8,210	
	THE SCRIPPS RESEARCH INSTITUTE	88212	93	856	-6,388	
	UNIVERSITY OF MIAMI	875GG	93	856	2,201	
UNIVERSITY OF PENNSYLVANIA	SUB 552499 (A1082020)	93	856	59,343		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA BELIAKOVA-BETHELL 317670	93	856	17,730		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GUATELLI 08705004 (A10816	93	856	31,904		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GUATELLI 09473001 (A11297	93	856	24,577		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GUATELLI 09473001(1R01 AI	93	856	35,752		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MARTINEZ (A11042863)	93	856	27,123		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA RICHMAN (A1036214)	93	856	30,717		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA RICHMAN(A1126619)	93	856	41,029		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA SCHRIER (A1116194)	93	856	4,080		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA SINGH (A1081668)	93	856	46,984		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA SPINA (A1122389)	93	856	30,699		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA SPINA (4 R33 A1104282-04)	93	856	30,717		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA STRAIN, MATTHEW CARL(A11	93	856	21,799		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	83449	93	856	-3,130		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	875EC	93	856	13,157		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	8962D	93	856	23,389		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	JPA GUATELLI 318979 (A1129706)	93	856	45,247		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	SUB BEADLE (A1131424)	93	856	75,777		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HOSTETLER (A1131424)	93	856	15,007		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HOSTETLER (AL131424)	93	856	25,782		
VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA VOLLBRECHT 320769 (A1129	93	856	2,681		
YALE UNIVERSITY	87282	93	856	-1,345		
				1,048,076		
Passthrough/Partial Passthrough						
ADVANCED GENETIC SYSTEMS, INC.	R41GM115250	93	859	27,840		
AKONNI BIOSYSTEMS	873B7	93	859	-98,910		
ARIZONA STATE UNIVERSITY/TEMPE	SUB 15-695 (GM106081)	93	859	20,512		
ARIZONA STATE UNIVERSITY/TEMPE	SUB 16-798 (GM113967)	93	859	111,747		
ARIZONA STATE UNIVERSITY/TEMPE	17-070:1	93	859	80,308		
ARIZONA STATE UNIVERSITY/TEMPE	SUB 17-245 (GM121698)	93	859	17,111		
BUCK INSTITUTE FOR RESEARCH ON AGING	SA40002-UC	93	859	15,408		
CAL STATE L.A. UNIVERSITY AUXILIARY SERVICES, INC. (UAS)	UC1231328-CYC2	93	859	6,345		
CALIFORNIA INSTITUTE OF TECHNOLOGY	68-1095554-02	93	859	22,676		
CALIFORNIA STATE UNIVERSITY, FRESNO FOUNDATION	SC340435-15-01	93	859	11,739		
CARNEGIE INSTITUTION	6-10375-01	93	859	55,649		
CASE WESTERN RESERVE UNIVERSITY	RES512970	93	859	2,555		
CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION	12_8036_UCB_01	93	859	108,182		
CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION	12_8036_UCSF_01	93	859	261,215		
CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION	12_8036_UCLA_02:03	93	859	560,446		
COLORADO STATE UNIVERSITY	G-35013-1	93	859	289,845		
CORNELL UNIVERSITY	008628	93	859	77,361		
CORNELL UNIVERSITY	69800-10240	93	859	81,252		
CORNELL UNIVERSITY	A00-0525-005	93	859	27,266		
DUKE UNIVERSITY	2034849-CYC2	93	859	88,519		
EMORY UNIVERSITY	SUBT445706 (GM114612)	93	859	146,556		
FRED HUTCHINSON CANCER RESEARCH CENTER	0000905063	93	859	21,109		

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
DEPARTMENT OF HEALTH AND HUMAN SERVICES	FRED HUTCHINSON CANCER RESEARCH CENTER	0000916050-CYC1	93	859	22,461	
	INDIANA UNIVERSITY	SUB IN-4686392-UCSD (GM12015)	93	859	30,139	
	INSTITUTE FOR SYSTEMS BIOLOGY	SUB 2017.0002 (GM127667)	93	859	28,967	
	IOWA STATE UNIVERSITY	430-21-35A	93	859	74,217	
	LASER ASSOCIATED SCIENCES, LLC	LAS-205603-CYC1	93	859	40,800	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SUB 5710003747 (GM082209)	93	859	187,536	
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	CLA-232782	93	859	101,433	
	NANOCELLECT BIOMEDICAL, INC.	SUB 20151958 (GM112442)	93	859	-15,607	
	NANOCELLECT BIOMEDICAL, INC.	SUB NONE(20173841)	93	859	60,000	
	NATIONAL AUTONOMOUS UNIVERSITY OF MEXICO	201402451	93	859	11,877	
	NORTHWESTERN UNIVERSITY	SP0029368-PROJ0007727-CYC3	93	859	53,265	
	OHIO STATE UNIVERSITY	87512	93	859	-1,263	
	PURDUE UNIVERSITY	4102-80689	93	859	62,843	
	ROCKEFELLER UNIVERSITY	1P41GM109824-01	93	859	310,568	
	ROCKEFELLER UNIVERSITY	1R01GM112108-01A1	93	859	62,794	
	ROCKEFELLER UNIVERSITY	7R01GM107124-02	93	859	41,992	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	SUB 0108 (GM118574)	93	859	118,793	
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	87410	93	859	.49	
	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	88082	93	859	-2,118	
	ST. JUDE CHILDREN'S RESEARCH HOSPITAL	112156010-766015E	93	859	64,064	
	STANFORD UNIVERSITY	5U19GM106990-02	93	859	1,097	
	STANFORD UNIVERSITY	60544676-109623	93	859	19,550	
	STANFORD UNIVERSITY	61000019-469	93	859	72,008	
	STANFORD UNIVERSITY	61124790-121581	93	859	-19,506	
	STANFORD UNIVERSITY	SUB 60133681 (GM102098)	93	859	15,994	
	STANFORD UNIVERSITY	SUB 61009649-108979 (GM10699)	93	859	296,801	
	STANFORD UNIVERSITY	60684362-112326.3	93	859	370,557	
	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	77901	93	859	48,251	
	SYLVATICA BIOTECH, INC.	042327	93	859	50,628	
	TEMPLE UNIVERSITY	SUB 258162UC (GM110749)	93	859	40,034	
	TEXAS A&M UNIVERSITY - COLLEGE STATION	88345	93	859	-14,132	
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-53043 (GM100934)	93	859	29,586	
	THE SCRIPPS RESEARCH INSTITUTE	88825	93	859	8,142	
	UNIVERSITY OF CHICAGO	FP043359-I	93	859	42,920	
	UNIVERSITY OF CHICAGO	SUB FP063513-02 (GM121964)	93	859	19,016	
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	FY15.726.002:2	93	859	87,958	
	UNIVERSITY OF FLORIDA	UFDSPO0010901	93	859	94,705	
	UNIVERSITY OF FLORIDA	58814	93	859	-8,212	
	UNIVERSITY OF FLORIDA	UFDSPO0011896-CYC1	93	859	38,063	
	UNIVERSITY OF ILLINOIS	083118-15900	93	859	529,330	
	UNIVERSITY OF ILLINOIS	A8289	93	859	2,655	
	UNIVERSITY OF MASSACHUSETTS SYSTEM	RFS2015073	93	859	84,680	
	UNIVERSITY OF MICHIGAN	3003206498	93	859	-7,814	
	UNIVERSITY OF MICHIGAN	3003707885	93	859	85,736	
	UNIVERSITY OF MICHIGAN	3004658793	93	859	32,658	
	UNIVERSITY OF MICHIGAN	89210	93	859	-15,491	
	UNIVERSITY OF MICHIGAN	A16-0292-003	93	859	52,338	
	UNIVERSITY OF MICHIGAN	SUB 3004563655 (GM070862)	93	859	45,540	
	UNIVERSITY OF MINNESOTA	SUB 0904509601 (GM110129)	93	859	48,117	
	UNIVERSITY OF MINNESOTA	SUB N002311201 (GM100310)	93	859	126,892	
	UNIVERSITY OF MINNESOTA	H006126301-CYC1	93	859	15,078	
	UNIVERSITY OF MISSISSIPPI	66100920513	93	859	6,000	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5104882	93	859	13,199	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5105472	93	859	47,403	
	UNIVERSITY OF PENNSYLVANIA	79516	93	859	-17,891	
	UNIVERSITY OF PENNSYLVANIA	SUB 572650 (GM124111)	93	859	76,788	
	UNIVERSITY OF PITTSBURGH	0048589 (127394-3)	93	859	78,265	
	UNIVERSITY OF PITTSBURGH	SUB 0048589 (127394-1) (GM117)	93	859	5,181	
	UNIVERSITY OF PITTSBURGH	0026281 (128405-11)-CYC1	93	859	1,401	
	UNIVERSITY OF ROCHESTER	417145 / URFAO: GR510690-CYC1	93	859	17,489	
	UNIVERSITY OF TEXAS-AUSTIN	SUB UTA15-000328 (GM111926)	93	859	106,721	
	UNIVERSITY OF UTAH	10044932-06	93	859	253,873	
	UNIVERSITY OF VERMONT	31037SUBS2164	93	859	27,474	
	UNIVERSITY OF VIRGINIA	GB10352 153125	93	859	9,149	
	UNIVERSITY OF WASHINGTON	UWSC8727:2	93	859	41,081	
	UNIVERSITY OF WISCONSIN-MADISON	80759	93	859	2,516	
	VALITOR, INC.	R43GM117976	93	859	10,797	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA PATEL (GM085179)	93	859	54,320	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA PATEL (GM 085179)	93	859	47,166	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA PATEL (GM085179)	93	859	10,122	
	VIRGINIA COMMONWEALTH UNIVERSITY	SUB PD303431-SC105094 (GM109	93	859	136,942	

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			Prefix	Extension		
DEPARTMENT OF HEALTH AND HUMAN SERVICES	YALE UNIVERSITY	C15A12298	93	859	53,219	
	YALE UNIVERSITY	GR100911(CON-80000973)	93	859	82,518	
	YESHIVA UNIVERSITY	88716	93	859	-5,030	
	DUQUESNE UNIVERSITY	G1700082	93	859	19,057	
					6,458,382	
	Passthrough/Partial Passthrough					
	SAN DIEGO COMMUNITY COLLEGE DISTRICT	SUB NONE (GM073590)	93	862	10,254	
					10,254	
	Passthrough/Partial Passthrough					
	ARKANSAS CHILDREN'S HOSPITAL RESEARCH INSTITUTE	034586	93	865	97,966	
	BAYLOR COLLEGE OF MEDICINE	20161462	93	865	488,429	
	BAYLOR COLLEGE OF MEDICINE	SUB 70000000222 (HD083181)	93	865	-4,528	
	BAYLOR COLLEGE OF MEDICINE	5600716512:5	93	865	27	
	BODIMOJO	R43HD090774	93	865	38,231	
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SUB SA0000509 (HD085086)	93	865	28,238	
	CHILDREN'S HOSPITAL LOS ANGELES	8011-RGF009152-00-2	93	865	374,683	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	130474	93	865	4,530	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	136763	93	865	62,495	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	138406	93	865	241,919	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	1R01HD07812701	93	865	167,565	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	88319	93	865	-8,832	
	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	8974D	93	865	114,574	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	3210050618	93	865	1,660	
	CHILDREN'S HOSPITAL OF PHILADELPHIA	SUB 3200660619 (HD089151)	93	865	7,191	
	COLUMBIA UNIVERSITY	2(GG014111)	93	865	9,360	
	COLUMBIA UNIVERSITY	3(GG010395-04)	93	865	96,664	
	CORNELL UNIVERSITY	17071036-02	93	865	15,918	
	DUKE UNIVERSITY	R01HD081044	93	865	17	
	DUKE UNIVERSITY	SUB 197946 215519 (HD 076676)	93	865	2,897	
	DUKE UNIVERSITY	SUB NONE (HD081044)	93	865	-10,734	
	FARUS, LLC	SUB 015-R44HD082898-UCSD1 (H	93	865	128,561	
	FLINT REHABILITATION DEVICES	202871-CYC2	93	865	147,149	
	FLINT REHABILITATION DEVICES	FRD-200966-CYC2	93	865	84,623	
	FLORIDA STATE UNIVERSITY	R01776	93	865	24,722	
	FLORIDA STATE UNIVERSITY	78365	93	865	-60	
	FLORIDA STATE UNIVERSITY	R01921-CYC1	93	865	34,564	
	FLORIDA STATE UNIVERSITY	R01988-CYC1	93	865	100,865	
	FLORIDA STATE UNIVERSITY	R01990	93	865	33,931	
	FLORIDA STATE UNIVERSITY	SUB R01940 (HD089875)	93	865	49,353	
	GEORGE WASHINGTON UNIVERSITY	13-UCSF-14	93	865	-743	
	GEORGIA INSTITUTE OF TECHNOLOGY	RG230-G1	93	865	-5,454	
	GEORGIA INSTITUTE OF TECHNOLOGY	RJ381-G2	93	865	111,624	
	HARVARD PILGRIM HEALTH CARE	AH000583	93	865	105,867	
	HARVARD UNIVERSITY	87417	93	865	-56,545	
	HARVARD UNIVERSITY	87418	93	865	-1,516	
	HARVARD UNIVERSITY	88389	93	865	-3,383	
	HARVARD UNIVERSITY	SUB 114205-1128-5096796 AMP (93	865	406,392	
	HARVARD UNIVERSITY	SUB 114205-1130-5096798 SMAR	93	865	566,948	
	HARVARD UNIVERSITY	SUB 114205-1228-5102175(HD05.	93	865	914,143	
	HARVARD UNIVERSITY	114205-1386-5096800	93	865	68,123	
	HASKINS LABORATORIES, INC	B2702	93	865	-1,142	
	HASKINS LABORATORIES, INC	R01HD086168	93	865	47,756	
	HENRY FORD HEALTH SYSTEM	87645	93	865	248,802	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0254-3514-4609	93	865	91,820	
	INFLEXION, INC.	2R44HD066920-03A1	93	865	-14,262	
	JOHNS HOPKINS UNIVERSITY	2002294060	93	865	95,134	
	JOHNS HOPKINS UNIVERSITY	2002295012:3	93	865	294,411	
	MAGEE-WOMENS HOSPITAL, RESEARCH INSTITUTE AND FOUNDATION	2625:3	93	865	192,109	
	MASSACHUSETTS GENERAL HOSPITAL	231263	93	865	14,626	
	MASSACHUSETTS GENERAL HOSPITAL	SUB 230910 (HD068250)	93	865	53,077	
	MASSACHUSETTS GENERAL HOSPITAL	SUB 231626 (HD093578)	93	865	2,736	
	MU-JHU CARE LIMITED	R01HD080476	93	865	49,703	
	NATIONWIDE CHILDREN'S HOSPITAL	30002425-05:02	93	865	128,829	
	NATIONWIDE CHILDREN'S HOSPITAL	30003275-06:07	93	865	97,415	
	NEW YORK UNIVERSITY	F4330-04-CYC2	93	865	25,541	
	OHIO STATE UNIVERSITY	60061268	93	865	77,547	
	OKLAHOMA STATE UNIVERSITY	1-568197 - UCSF	93	865	9,395	
	OREGON HEALTH & SCIENCE UNIVERSITY	9009028_UCLA:6	93	865	289,025	20,066
	PACIFIC INSTITUTE FOR RESEARCH AND EVALUATION	20153450 (HD083399)	93	865	71,240	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	PRINCETON UNIVERSITY	SUB0000136:1	93	865	96,855	
	RADY CHILDREN'S HOSPITAL-SAN DIEGO	SUB 3282-UCSD-S1(HD077693)	93	865	47,282	
	RAND CORP	9920150090:02	93	865	37,117	
	RTI HEALTH SOLUTIONS	SUB NONE (HD054214)	93	865	165,637	94,013
	RTI INTERNATIONAL	0212456:08	93	865	13,062	
	RTI INTERNATIONAL	2-312-0214493-52064L	93	865	29,929	
	RTI INTERNATIONAL	89939	93	865	350	
	SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION	11447SUB	93	865	25,872	
	SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION	11192SUB	93	865	1,411	
	SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION	11625SUB	93	865	216,815	
	SEQUOIA FOUNDATION	9098 UCSF	93	865	39,424	
	STANFORD UNIVERSITY	6126960712018E	93	865	454,443	
	STANFORD UNIVERSITY	61245596-117723	93	865	21,439	
	STANFORD UNIVERSITY	61269608-12018E	93	865	97,131	
	STANFORD UNIVERSITY	61538053-113992	93	865	526	
	STANFORD UNIVERSITY	61704698-12252E	93	865	178,992	
	STANFORD UNIVERSITY	61764715-116231	93	865	10,959	
	STANFORD UNIVERSITY	A16-0544-002	93	865	149,811	
	STANFORD UNIVERSITY	B1409	93	865	2	
	STELLENBOSCH UNIVERSITY	S004190 / 55811	93	865	153,773	
	STELLENBOSCH UNIVERSITY	SUB S004189 (HD083042)	93	865	58,254	
	THE UNIVERSITY OF ALABAMA (TUSCALOOSA)	000388010-056-A03	93	865	2,561	
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000504713-012 (HD061222)	93	865	-24,019	
	TULANE UNIVERSITY	SUB TUL-HSC-553714-15/16 (HDE	93	865	19,390	
	TULANE UNIVERSITY	SUB TUL-HSC-553718-15/16 (HDC	93	865	85,909	
	TULANE UNIVERSITY	TUL-HSC-553716-15/16	93	865	4,849	
	TULANE UNIVERSITY	TUL-HSC-554713-16/17	93	865	23,514	
	UNIVERSITY OF ARIZONA	356680	93	865	191,616	
	UNIVERSITY OF ARKANSAS, FAYETTEVILLE	51460	93	865	41,041	
	UNIVERSITY OF CAMBRIDGE	RG78257:1	93	865	137,968	
	UNIVERSITY OF CHICAGO	FP036878-03-PR-CR-04-CYC1	93	865	162,108	
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	14-036-002:5	93	865	205,837	
	UNIVERSITY OF HAWAII AT MANOA	KA1186 (HD084633)	93	865	195,366	
	UNIVERSITY OF KANSAS/KU CENTER FOR RESEARCH, INC.	59147	93	865	3,295	
	UNIVERSITY OF MARYLAND, BALTIMORE	1500173	93	865	17,425	
	UNIVERSITY OF MICHIGAN	3002531057	93	865	24,092	
	UNIVERSITY OF MICHIGAN	88386	93	865	-18,297	
	UNIVERSITY OF MICHIGAN	3003317170-CYC4	93	865	61,572	
	UNIVERSITY OF MICHIGAN	3004685887	93	865	105,732	
	UNIVERSITY OF MINNESOTA	H006124302	93	865	4,922	
	UNIVERSITY OF NEVADA, LAS VEGAS/UNLV RESEARCH FOUNDATION	SUB 17-927H-05(HD087994)	93	865	28,543	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5105032-CYC1	93	865	31,045	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	SUB 5106227 (HD086139)	93	865	14,119	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5105863	93	865	278,695	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5107704	93	865	60,975	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5108958	93	865	23,582	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5108963	93	865	38,485	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5109045	93	865	16,516	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5110163	93	865	16,827	
	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	58355	93	865	27,758	
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	SUB 5109010 (HD089880)	93	865	62,533		
UNIVERSITY OF NOTRE DAME (INCL GEM)	202180UCD	93	865	41,514		
UNIVERSITY OF OKLAHOMA	RS20130769-05	93	865	-1,207		
UNIVERSITY OF PENNSYLVANIA	572609	93	865	12,877		
UNIVERSITY OF PITTSBURGH	0048860 (126874-1)	93	865	15,732		
UNIVERSITY OF PITTSBURGH	0019692 (125895-6):2	93	865	461		
UNIVERSITY OF SOUTHERN CALIFORNIA	87892310-CYC1	93	865	27,792		
UNIVERSITY OF SOUTHERN CALIFORNIA	009264	93	865	12,306		
UNIVERSITY OF SOUTHERN CALIFORNIA	111697-CYC16	93	865	61		
UNIVERSITY OF SOUTHERN CALIFORNIA	60664307:2	93	865	52,653		
UNIVERSITY OF TENNESSEE	008591	93	865	118,584		
UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS	006993	93	865	655,374		
UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS	GMO 171010	93	865	298,211		
UNIVERSITY OF UTAH	10034012-UCSF	93	865	130,384		
UNIVERSITY OF UTAH	B5784	93	865	-20		
UNIVERSITY OF UTAH	B6812	93	865	46,847		
UNIVERSITY OF UTAH	10035609-UCLA	93	865	2,108		
UNIVERSITY OF UTAH	10035609-UCSF	93	865	268		
UNIVERSITY OF WASHINGTON	UWSC9574-CYC1	93	865	5,453		
UNIVERSITY OF WASHINGTON	UWSC9985	93	865	22,115		
WASHINGTON STATE UNIVERSITY	104536-G003490	93	865	28,110		

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For the Fiscal Year Ended June 30, 2018

Cluster Programs and Federal Agencies	Federal Direct / Pass-Through and Partial Pass-Through	Agency/PassThrough Identifier or Other Identifier	Federal CFDA #		FY 2018	Pass-thru for Subrecipients	
			Prefix	Extension	Federal Expenditures		
DEPARTMENT OF HEALTH AND HUMAN SERVICES	WASHINGTON STATE UNIVERSITY	B1713	93	865	6,989		
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-15-73	93	865	199		
	WAYNE STATE UNIVERSITY	8754F	93	865	-11,865		
	WAYNE STATE UNIVERSITY	WSU17122	93	865	22,909		
	WESTAT	6101-5059 (MOD. #11)	93	865	823,192		
	WITS HEALTH CONSORTIUM (PTY) LIMITED	D1404360-01	93	865	40,459		
	YALE UNIVERSITY	B6791	93	865	2,360		
	YALE UNIVERSITY	GK000090 (CON-80000365)	93	865	1,754		
	YALE UNIVERSITY	GR101949 (CON-80001116)	93	865	49,591		
	YALE UNIVERSITY	M14A12052 (A10949)	93	865	327		
	YESHIVA UNIVERSITY	310897:1	93	865	91,420		
	ANN & ROBERT H. LURIE CHILDREN'S HOSPITAL OF CHICAGO	79965	93	865	-9,049		
	PATRICIA SULLIVAN CONSULTING	P0515039	93	865	24,306		
	PHOENIX NEST, INC.	SUB 20173598 (HD092110)	93	865	95,914		
	CINCINNATI CHILDREN'S HOSPITAL	R21HD090196	93	865	143,500		
	DUKE UNIVERSITY	203-6729	93	865	20,837		
					12,626,705	114,079	
	Passthrough/Partial Passthrough						
		AFASCI, INC.	201700586	93	866	199,863	
		BOSTON UNIVERSITY	4500001840	93	866	504,098	
		BOSTON UNIVERSITY	4500002196	93	866	154,849	
		BOSTON UNIVERSITY	4500002469	93	866	10,927	
		BRIGHAM AND WOMEN'S HOSPITAL	111014:5	93	866	169,192	
		BRIGHAM AND WOMEN'S HOSPITAL	116678:1	93	866	10,570	
		BRIGHAM AND WOMEN'S HOSPITAL	SUB 116678(AG054366)	93	866	7,191	
		BROWN UNIVERSITY	00000843	93	866	110,415	
		BROWN UNIVERSITY	R01AG051170	93	866	45,082	
		BUCK INSTITUTE FOR RESEARCH ON AGING	B2327	93	866	-24,356	
		BUCK INSTITUTE FOR RESEARCH ON AGING	89357	93	866	47,098	
	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	280201009-S200	93	866	21,393		
	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	2803226-S140	93	866	43,236		
	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	2803232-S153	93	866	112,113		
	CHAPMAN UNIVERSITY	2018-UCSB-AG054442	93	866	111,516		
	COLUMBIA UNIVERSITY	2(GGO10471)-CYC1	93	866	1,024,904		
	COLUMBIA UNIVERSITY	3(GGO12904-01)	93	866	15,374		
	DIAMIR, LLC	SUB 20152707 (AG044860)	93	866	19,884		
	EMORY UNIVERSITY	T880460 :4	93	866	185,509		
	FLORIDA STATE UNIVERSITY	R01AG053297	93	866	33,511		
	FRED HUTCHINSON CANCER RESEARCH CENTER	SUB 843415(AG048209)	93	866	37,327		
	GLADSTONE INSTITUTES	SUB R01709-A (AG011385)	93	866	34,552		
	GLADSTONE INSTITUTES	R2468-A	93	866	133,138		
	GLADSTONE INSTITUTES	R2452-A	93	866	48,242		
	HARVARD UNIVERSITY	116528-5061518:5	93	866	15,106		
	HEBREW SENIORLIFE INC.	10.10.91562	93	866	19,736		
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	025499274609	93	866	69,361		
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-1211-4609	93	866	17,956		
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	81A09	93	866	139,550		
	INDIAN HEALTH COUNCIL, INC.	SUB NONE (HS008101)	93	866	6,786		
	INDIAN HEALTH COUNCIL, INC.	83305	93	866	-6,646		
	INDIANA UNIVERSITY	IN4683234UCSF	93	866	165,076		
	INNOSENSE LLC	IS-203749-CYC3	93	866	111,863		
	INSTITUTE FOR MOLECULAR MEDICINE, INC. (CALIFORNIA)	UCI-2015-200641-CYC3	93	866	5,563		
	INSTITUTE FOR MOLECULAR MEDICINE, INC. (CALIFORNIA)	UCI-2015-200642-CYC3	93	866	115,361		
	JOHNS HOPKINS UNIVERSITY	2002476658:3	93	866	28,946		
	KAISER FOUNDATION HEALTH PLAN OF WASHINGTON	SUB 2015168560 (AG006781)	93	866	164,505		
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG200560UCD	93	866	1,399,448		
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG200560-02UCSF	93	866	63,438		
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG209188-UCD	93	866	49,097		
	KAISER PERMANENTE DIVISION OF RESEARCH	RNG209188-UCSF	93	866	61,280		
	MAGEE-WOMENS HOSPITAL, RESEARCH INSTITUTE AND FOUNDATION	5246_UCSF	93	866	4,397		
	MAGEE-WOMENS HOSPITAL, RESEARCH INSTITUTE AND FOUNDATION	5246-CYC2	93	866	79,945		
	MASSACHUSETTS GENERAL HOSPITAL	224849:4	93	866	9,774		
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	63788300	93	866	1,097,833		
	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	CSF-234899	93	866	4,992		
	NATIONAL BUREAU OF ECONOMIC RESEARCH, INC	33-4135-06-UCB	93	866	6,565		
	NATIONAL BUREAU OF ECONOMIC RESEARCH, INC	84-4008-13-UCLA:4	93	866	127,357		
	NATIONAL OPINION RESEARCH CENTER	59606	93	866	-1,293		
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	87465	93	866	1,979		
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	WEI2015-07	93	866	452,693		
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	WEI2015-11-CYC1	93	866	1,070		

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			Prefix	Extension	Federal Expenditures	
DEPARTMENT OF HEALTH AND HUMAN SERVICES	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	WEI2015-18	93	866	67,755	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	U19AG024904	93	866	116,748	
	NORTHWESTERN UNIVERSITY	60047861UCSF	93	866	27,517	
	NORTHWESTERN UNIVERSITY	SUB 60048330 UCSD (AG057441)	93	866	67,235	
	OHIO STATE UNIVERSITY	SUB 60051415(AG050725)	93	866	25,949	
	PACIFIC HEALTH RESEARCH AND EDUCATION INSTITUTE	SUB 21603-02 (AG053983)	93	866	45,155	
	PACIFIC HEALTH RESEARCH AND EDUCATION INSTITUTE	21704-03-CYC1	93	866	36,715	
	PACIFIC HEALTH RESEARCH AND EDUCATION INSTITUTE	SUB 21704-02 (AG056499)	93	866	23,784	
	PARK NICOLLET INSTITUTE	B3345	93	866	-230	
	PEKING UNIVERSITY	1520801	93	866	9,907	
	PENNSYLVANIA STATE UNIVERSITY	5296-UCM-DHHS-2167	93	866	34,747	
	RAND CORP	9920150099:03	93	866	19,132	
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	6024-CYC1	93	866	13,694	
	STANFORD UNIVERSITY	61406760-45510	93	866	22,961	
	STANFORD UNIVERSITY	SUB 61089692-112006 (AG047364)	93	866	45,580	
	STANFORD UNIVERSITY	61586177-126873	93	866	33,206	
	STANFORD UNIVERSITY	61626840-127916-CYC1	93	866	45,683	
	STANFORD UNIVERSITY	SUB: 61626841-127916 (AG05770)	93	866	26,994	
	STANFORD UNIVERSITY	61624544-45510	93	866	213,210	
	SUTTER WEST BAY HOSPITALS	007915	93	866	221,118	
	THE SCRIPPS RESEARCH INSTITUTE	89125	93	866	-78,057	
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-53402 (AG057459)	93	866	109,926	
	THE UNIVERSITY OF ALABAMA (TUSCALOOSA)	000410331-004	93	866	18,359	
	UNIVERSITY OF ARIZONA	306302	93	866	28,239	
	UNIVERSITY OF ARIZONA	310311	93	866	399,057	
	UNIVERSITY OF CHICAGO	FP056715-C:2	93	866	164,732	
	UNIVERSITY OF CHICAGO	FP0567154R37AG033590	93	866	180,293	
	UNIVERSITY OF COLORADO DENVER	FY18.792.002	93	866	4,403	
	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	WA00495814/OSP2017110	93	866	28,419	13,860
	UNIVERSITY OF MIAMI	SPC-000392	93	866	86,401	
	UNIVERSITY OF MIAMI	SUB SPC-000546 (AG056952)	93	866	20,119	
	UNIVERSITY OF MICHIGAN	3003282032	93	866	16,606	
	UNIVERSITY OF MICHIGAN	3003282033	93	866	112,357	
	UNIVERSITY OF MICHIGAN	3002601380:7	93	866	217,610	
	UNIVERSITY OF NORTH TEXAS	SUB RF00016-2017-0033(AG0518-	93	866	74,463	
	UNIVERSITY OF NORTH TEXAS	RF00105-2018-0020	93	866	2,862	
	UNIVERSITY OF NORTH TEXAS	SUB RF00110-2018-0022(AG0582)	93	866	71,927	
	UNIVERSITY OF PENNSYLVANIA	SUB 569267 (AG044332)	93	866	132,004	
	UNIVERSITY OF PENNSYLVANIA	567734	93	866	13,930	
	UNIVERSITY OF PENNSYLVANIA	571660	93	866	304,155	
	UNIVERSITY OF PITTSBURGH	0046842 (126362-2):-2	93	866	222,943	
	UNIVERSITY OF PITTSBURGH	0050794(128001-2):1	93	866	160,356	
	UNIVERSITY OF PITTSBURGH	82A68	93	866	-2,778	
	UNIVERSITY OF ROCHESTER	416927-CYC2	93	866	48,289	
	UNIVERSITY OF SOUTH FLORIDA	1253-1118-00-A-CYC2	93	866	274,783	
	UNIVERSITY OF SOUTHERN CALIFORNIA	008717	93	866	39,409	
	UNIVERSITY OF SOUTHERN CALIFORNIA	64911596/10422190-CYC4	93	866	108,864	
	UNIVERSITY OF SOUTHERN CALIFORNIA	75696718	93	866	198,726	
	UNIVERSITY OF SOUTHERN CALIFORNIA	79685690	93	866	86,444	
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 79634313 (WEI2015-01)	93	866	18,021	
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 80648183(AG037985)	93	866	19,042	
	UNIVERSITY OF SOUTHERN CALIFORNIA	54096768:3	93	866	69,285	
	UNIVERSITY OF SOUTHERN CALIFORNIA	54826553:02	93	866	694,765	
	UNIVERSITY OF SOUTHERN CALIFORNIA	75685631:01	93	866	56,127	
	UNIVERSITY OF SOUTHERN CALIFORNIA	75691348/A4 NIH	93	866	64,764	
	UNIVERSITY OF SOUTHERN CALIFORNIA	75696760-CYC2	93	866	23,789	
	UNIVERSITY OF SOUTHERN CALIFORNIA	78389953:1	93	866	64,074	
	UNIVERSITY OF SOUTHERN CALIFORNIA	78794	93	866	-26,772	
	UNIVERSITY OF SOUTHERN CALIFORNIA	79635050-CYC1	93	866	46,731	
	UNIVERSITY OF SOUTHERN CALIFORNIA	79635074	93	866	35,234	
	UNIVERSITY OF SOUTHERN CALIFORNIA	80108370:01	93	866	63,239	
	UNIVERSITY OF SOUTHERN CALIFORNIA	8734C	93	866	-3,155	
	UNIVERSITY OF SOUTHERN CALIFORNIA	873BD	93	866	-2,017	
	UNIVERSITY OF SOUTHERN CALIFORNIA	873GC	93	866	51,554	
	UNIVERSITY OF SOUTHERN CALIFORNIA	87955699-CYC2	93	866	39,750	
	UNIVERSITY OF SOUTHERN CALIFORNIA	93306651	93	866	46,335	
	UNIVERSITY OF SOUTHERN CALIFORNIA	96477971	93	866	7,323	
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 103366912(AG047992)	93	866	16,781	
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	81B01	93	866	8,800	
	UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON	18-84378-3-CYC1	93	866	13,476	
	UNIVERSITY OF TEXAS-AUSTIN	UTA16-000684-CYC1	93	866	7,475	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	UNIVERSITY OF UTAH	10042502-09	93	866	1,338		
	UNIVERSITY OF UTAH	R01AG055606	93	866	15,662		
	UNIVERSITY OF VERMONT	30340 SUB0002 UCSF	93	866	15,385		
	UNIVERSITY OF WASHINGTON	762200	93	866	28,122		
	UNIVERSITY OF WASHINGTON	SUB 752710 (AG16976)	93	866	16,875		
	UNIVERSITY OF WASHINGTON	SUB UWSC10150 (AG056711)	93	866	81,655		
	UNIVERSITY OF WASHINGTON	UWSC7732-CYC3	93	866	28,212		
	UNIVERSITY OF WASHINGTON	UWSC9789	93	866	23,927		
	UNIVERSITY OF WISCONSIN-MADISON	674K660	93	866	76,224		
	UNIVERSITY OF WISCONSIN-MADISON	622K510:3	93	866	1,820		
	UNIVERSITY OF WISCONSIN-MADISON	63559	93	866	482		
	UNIVERSITY OF WISCONSIN-MADISON	708K363:1	93	866	144,922		
	UNIVERSITY OF WISCONSIN-MADISON	756K501	93	866	770,919		
	UNIVERSITY OF WISCONSIN-MADISON	757K002	93	866	58,454		
	UNIVERSITY OF WISCONSIN-MADISON	757K654	93	866	41,912		
	UNIVERSITY OF WISCONSIN-MADISON	SUB 793K041 (AG057784)	93	866	1,571		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA IX (AG053325)	93	866	7,034		
	VIRGINIA COMMONWEALTH UNIVERSITY	FP00001819_SA001:1	93	866	45,266		
	WAKE FOREST UNIVERSITY	SUB 110918 (AG044325)	93	866	-22		
	WAKE FOREST UNIVERSITY	WUFUHS 115068 (AG044325)	93	866	20		
	WASHINGTON UNIVERSITY IN ST. LOUIS	88601	93	866	-3,983	-3,983	
	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-14-333 (AG032438)	93	866	99,640	3,983	
	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-15-135 (AG049369)	93	866	1,491,018		
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-18-48	93	866	1,064,143		
	WILLIAM BEAUMONT HOSPITAL	WBH 15006_UCSF	93	866	60,961		
	KAISER FOUNDATION RESEARCH INSTITUTION	RF1AG056519	93	866	68,091		
	KAISER FOUNDATION RESEARCH INSTITUTION	RNG29404-UCI-CYC1	93	866	63,020		
	KECK GRADUATE INSTITUTE OF APPLIED LIFE SCIENCES	GR750000UCI-CYC1	93	866	23,015		
	SCRIPPS RESEARCH INSTITUTE (FLORIDA)	008200	93	866	91,009		
	TEXAS A&M HEALTH SCIENCE CENTER	SUB M1703563 (AG056574)	93	866	148,770		
	DUKE UNIVERSITY	2036702	93	866	52,278		
					17,241,428	13,860	
	Passthrough/Partial Passthrough						
		AIVITA BIOMEDICAL, INC.	ABI-207440-CYC2	93	867	154,443	
		BAYLOR COLLEGE OF MEDICINE	88342	93	867	694	
		BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	008636	93	867	54,651	
		CALIFORNIA INSTITUTE OF TECHNOLOGY	21B-1097075:1	93	867	43,513	
		CARNEGIE MELLON UNIVERSITY	79592	93	867	-14,123	
		CASE WESTERN RESERVE UNIVERSITY	RES512338-CYC1	93	867	6,849	
		CEDARS-SINAI MEDICAL CENTER	0001135026:2	93	867	86	
		CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	131035	93	867	218,889	
		CHILDREN'S HOSPITAL OF PHILADELPHIA	3209850813	93	867	252	
		CORNELL UNIVERSITY	11091561	93	867	40,537	
		CORNELL UNIVERSITY	R01EY027036	93	867	150,518	
		CORNELL UNIVERSITY	161219952	93	867	44,784	
		CORNELL UNIVERSITY	18304502	93	867	28,450	
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-0731-4609	93	867	225,860		
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-7713-4609	93	867	40,245		
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	U10EY025990	93	867	153,745		
	JAEB CENTER FOR HEALTH RESEARCH, INC.	1U10EY020797-01A1	93	867	10,945		
	JAEB CENTER FOR HEALTH RESEARCH, INC.	201603120	93	867	19,823		
	JAEB CENTER FOR HEALTH RESEARCH, INC.	JAEB-55146-CYC2	93	867	1,849		
	JAEB CENTER FOR HEALTH RESEARCH, INC.	5U10 EY011751-20	93	867	17,598		
	JAEB CENTER FOR HEALTH RESEARCH, INC.	B0015	93	867	12		
	JOHNS HOPKINS UNIVERSITY	2002473559	93	867	5,649		
	JOHNS HOPKINS UNIVERSITY	2002507432:04	93	867	18,241		
	JOHNS HOPKINS UNIVERSITY	2003187957/95351	93	867	3,409		
	JOHNS HOPKINS UNIVERSITY	2003252076:8	93	867	9,204		
	JOHNS HOPKINS UNIVERSITY	59226	93	867	-24,049		
	NEURO KINETICS, INC.	77808	93	867	-4,078		
	OPTIKIRA, LLC	R41EY026370	93	867	-40		
	PENNSYLVANIA STATE UNIVERSITY	U10EY023533	93	867	4,814		
	PENNSYLVANIA STATE UNIVERSITY	UCDEY023533	93	867	155		
	PENNSYLVANIA STATE UNIVERSITY	UCLAEY023533:1	93	867	99,676		
	STANFORD UNIVERSITY	63405	93	867	44,271	43,182	
	STANFORD UNIVERSITY	A00-1375-004	93	867	49,581		
	STANFORD UNIVERSITY	A00-1442-004	93	867	122,606		
	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	88456	93	867	-2,884		
	THE SCRIPPS RESEARCH INSTITUTE	5-27037	93	867	176,277		
	THE SCRIPPS RESEARCH INSTITUTE	88119	93	867	-2,852		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	THE SCRIPPS RESEARCH INSTITUTE	89232	93	867	164		
	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-53499(EY028642)	93	867	6,648		
	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000512884 (EY026574)	93	867	380,419		
	UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION, INC.	ULRF 17-0884-01-CYC1	93	867	125,643		
	UNIVERSITY OF MICHIGAN	3004645125-1	93	867	10,591		
	UNIVERSITY OF MICHIGAN	SUB 3004210904(EY026641)	93	867	47,600		
	UNIVERSITY OF MINNESOTA	UCSF #A120468	93	867	9,205		
	UNIVERSITY OF OKLAHOMA	SUB RS20151124 (EY025947)	93	867	77,793		
	UNIVERSITY OF PENNSYLVANIA	571042	93	867	11,681		
	UNIVERSITY OF PENNSYLVANIA	88758	93	867	31,187		
	UNIVERSITY OF PENNSYLVANIA	89392	93	867	7,619		
	UNIVERSITY OF SOUTHERN CALIFORNIA	54529007	93	867	62,813		
	UNIVERSITY OF SOUTHERN CALIFORNIA	79508336	93	867	208,705		
	UNIVERSITY OF SOUTHERN CALIFORNIA	16935UCLA	93	867	16,105		
	UNIVERSITY OF SOUTHERN CALIFORNIA	72730838-CYC2	93	867	268,570		
	UNIVERSITY OF WASHINGTON	UWSC7854	93	867	338,129		
	UNIVERSITY OF WASHINGTON	UWSC10239	93	867	45,600		
	VALITOR, INC.	A128186	93	867	35,481		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	79281	93	867	-22,232		
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	79295	93	867	-5,489		
	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-16-120 (EY025181)	93	867	19,639		
	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-16-20 (EY025183)	93	867	68,586		
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-16-119	93	867	7,992		
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-15-230-MOD-2	93	867	125,785		
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-16-121-MOD-1:1	93	867	9,798		
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-16-122-MOD-1/2927938C	93	867	9,778		
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU1871	93	867	346,468		
	WAYNE STATE UNIVERSITY	WSU14046	93	867	18,168		
	YALE UNIVERSITY	GR100289-CYC1	93	867	31,661		
	YALE UNIVERSITY	M16A12311 (A10507)-CYC2	93	867	27,770		
	BIOTIME, INC.	BT1-207738-CYC1	93	867	190,314		
	UNIVERSITY OF LOUISVILLE	ULRF 17-0884-02	93	867	198,161		
	UNIVERSITY OF PENNSYLVANIA	564478	93	867	96,375		
	UNIVERSITY OF PENNSYLVANIA	572701	93	867	87,008		
					4,593,335	43,182	
	Passthrough/Partial Passthrough	DREXEL UNIVERSITY	800096	93	877	25,579	
					25,579		
	Passthrough/Partial Passthrough	ARIZONA STATE UNIVERSITY/TEMPE	15-731:2	93	879	85,977	
		CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE	16-17-LO-G0075000-UCLA	93	879	116,747	
		COLUMBIA UNIVERSITY	1(GG012264)	93	879	6,349	
		NORTHWESTERN UNIVERSITY	A18-0375-001	93	879	16,564	
					225,637		
	Passthrough/Partial Passthrough	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB-WU-17-344 (P01AG051443)	93	886	31,432	
					31,432		
	Passthrough/Partial Passthrough	BOSTON UNIVERSITY	4500002529	93	928	1,767	
					1,767		
	Passthrough/Partial Passthrough	INDIAN HEALTH COUNCIL, INC.	SUB 102313 (IHS0081-01-00)	93	933	69,561	
					69,561		
	Passthrough/Partial Passthrough	CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE	P20MD000182-15:5	93	937	293,440	
				293,440			
Passthrough/Partial Passthrough	HELUNA HEALTH	12U65PS004454	93	939	651,682		
				651,682			
Passthrough/Partial Passthrough	CITY AND COUNTY OF SAN FRANCISCO	BPHC110000999 / DPHC	93	943	639,770		
				639,770			

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients	
DEPARTMENT OF HEALTH AND HUMAN SERVICES	Passthrough/Partial Passthrough						
	HELUNA HEALTH	CMS 7053	93	944	59,440		59,440
	Passthrough/Partial Passthrough						
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	1320566	93	945	327,413		327,413
	Passthrough/Partial Passthrough						
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	B1886	93	946	-663		-663
	Passthrough/Partial Passthrough						
	FHI 360	780/0080.0214:06	93	977	27,180		27,180
	Passthrough/Partial Passthrough						
	EDUARDO MONDLANE UNIVERSITY	SUB C0010 (TW010135)	93	989	67,327		
	EDUARDO MONDLANE UNIVERSITY	87531	93	989	7,937		
	GEORGIA INSTITUTE OF TECHNOLOGY	RF135-G1	93	989	403,299		32,456
	JOHNS HOPKINS UNIVERSITY	2002590467	93	989	3,184		
	JOHNS HOPKINS UNIVERSITY	94982	93	989	30,988		
	LOMA LINDA UNIVERSITY (INCL NATL MEDICAL TECHNOLOGY TESTBED, INC.)	80118	93	989	40,407		
	MAKERERE UNIVERSITY	MAKCHS062017	93	989	18,163		
	NORTHWESTERN UNIVERSITY	60042025UCSF	93	989	9,877		
	UNIVERSITY OF SOUTH FLORIDA	1211-1065-00-D	93	989	100,590		
	YALE UNIVERSITY	GK000694 (CON-80000637)	93	989	111,300		
					793,072		32,456
	Passthrough/Partial Passthrough						
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	16-10016	93	994	1,665,889		628,267
					1,665,889		628,267
	Direct						
	ADMH PHS (SAMHSA) MENTAL HEALTH - CENTER FOR MENTAL HEALTH SERVICES	VARIOUS	93	RD	78,933		
	ADMH PHS (SAMHSA) PREVENTION - CENTER FOR SUBSTANCE ABUSE PREVENTION	VARIOUS	93	RD	1,844,637		722,635
	CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	RD	34,917,371		9,705,989
	CDC NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH	VARIOUS	93	RD	1,848,351		54,191
	ENVIRONMENTAL HEALTH SCIENCES, NATIONAL INSTITUTE OF	VARIOUS	93	RD	2,141,444		923,090
	FDA PHS FOOD AND DRUG ADMINISTRATION	VARIOUS	93	RD	8,335,674		1,854,060
	HCFA CENTERS FOR MEDICARE AND MEDICAID SERVICES	VARIOUS	93	RD	2,743,388		971,041
	HRSA HHS OFFICE OF MINORITY HEALTH	VARIOUS	93	RD	447,597		
	HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	RD	17,101,922		2,982,117
	NIH ALCOHOL ABUSE AND ALCOHOLISM, NATIONAL INSTITUTE OF	VARIOUS	93	RD	17,745,519		2,052,613
	NIH ARTHRITIS, MUSCULOSKELETAL & SKIN DISEASES, NATIONAL INSTITUTE OF	VARIOUS	93	RD	37,047,462		1,302,609
	NIH CHILD HEALTH & HUMAN DEVELOPMENT, NATIONAL INSTITUTE OF	VARIOUS	93	RD	72,832,834		10,402,347
	NIH DEAFNESS & OTHER COMMUNICATION DISORDERS, NATIONAL INSTITUTE ON	VARIOUS	93	RD	19,001,118		730,452
	NIH DENTAL AND CRANIOFACIAL RESEARCH, NATIONAL INSTITUTE OF	VARIOUS	93	RD	29,990,984		2,347,054
	NIH DIABETES, DIGESTIVE & KIDNEY DISEASES, NATIONAL INSTITUTE OF	VARIOUS	93	RD	94,972,225		8,458,014
	NIH DRUG ABUSE, NATIONAL INSTITUTE OF	VARIOUS	93	RD	68,825,008		13,151,322
	NIH ENVIRONMENTAL HEALTH SCIENCES, NATIONAL INSTITUTE OF	VARIOUS	93	RD	37,113,602		4,820,885
	NIH JOHN F. FOGARTY INTERNATIONAL CENTER	VARIOUS	93	RD	6,684,544		2,111,349
	NIH MEDICINE, NATIONAL LIBRARY OF	VARIOUS	93	RD	3,749,307		590,366
	NIH MENTAL HEALTH, NATIONAL INSTITUTE OF (NIMH)	VARIOUS	93	RD	147,531,818		20,502,101
	NIH NATIONAL CANCER INSTITUTE	VARIOUS	93	RD	238,284,081		40,584,656
	NIH NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	VARIOUS	93	RD	190,376		16,103
	NIH NATIONAL CENTER FOR COMPLEMENTARY AND INTEGRATIVE HEALTH	VARIOUS	93	RD	5,992,968		228,139
	NIH NATIONAL EYE INSTITUTE	VARIOUS	93	RD	51,457,010		1,862,924
	NIH NATIONAL HEART, LUNG AND BLOOD INSTITUTE	VARIOUS	93	RD	152,125,203		17,796,764
	NIH NATIONAL HUMAN GENOME RESEARCH INSTITUTE	VARIOUS	93	RD	25,668,083		3,424,091
	NIH NATIONAL INST OF ALLERGY AND INFECTIOUS DISEASES	VARIOUS	93	RD	217,906,468		45,301,114
	NIH NATIONAL INSTITUTE OF BIOMEDICAL IMAGING AND BIOENGINEERING	VARIOUS	93	RD	30,029,783		2,765,563
	NIH NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCE	VARIOUS	93	RD	224,098,917		16,032,883
	NIH NATIONAL INSTITUTE ON MINORITY HEALTH AND HEALTH DISPARITIES	VARIOUS	93	RD	6,022,604		980,482
	NIH NATIONAL INSTITUTES OF HEALTH CENTER FOR SCIENTIFIC REVIEW	VARIOUS	93	RD	21,170,135		2,030,485
	NIH NATIONAL INSTITUTES OF HEALTH OFFICE OF THE DIRECTOR	VARIOUS	93	RD	25,518,020		1,064,486
	NIH NEUROLOGICAL DISORDERS & STROKE, NATIONAL INSTITUTE OF	VARIOUS	93	RD	135,792,593		18,010,908
	NIH NIH NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	VARIOUS	93	RD	59,356,101		5,627,525
	NIH NIH/MISCELLANEOUS AGENCIES & DEPARTMENTS	VARIOUS	93	RD	25,632,912		844,916
	NIH NURSING RESEARCH, NATIONAL INSTITUTE OF	VARIOUS	93	RD	7,352,240		639,392
	NIH OFFICE OF RESEARCH INFRASTRUCTURE PROGRAMS, NIH	VARIOUS	93	RD	181,179		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	OHDS ADMINISTRATION FOR CHILDREN AND FAMILIES	VARIOUS	93	RD	40,587		
	PHS AGENCY FOR HEALTHCARE RESEARCH AND QUALITY	VARIOUS	93	RD	10,103,573	1,291,422	
	PHS PHS OFFICE OF ADOLESCENT HEALTH	VARIOUS	93	RD	1,083,748	63,697	
	PHS PHS OFFICE OF POPULATION AFFAIRS	VARIOUS	93	RD	10,948	7,876	
	PHS PHS OFFICE OF WOMEN'S HEALTH	VARIOUS	93	RD	725,442	66,564	
	SEC ADMINISTRATION FOR COMMUNITY LIVING	VARIOUS	93	RD	1,728,337	300,409	
	SEC HHS OFFICE OF THE SECRETARY	VARIOUS	93	RD	116,848		
	NIH NATIONAL HEART, LUNG AND BLOOD INSTITUTE (ARRA)	VARIOUS	93	RD	-865		
	NIH NATIONAL INSTITUTES OF HEALTH CLINICAL CENTER	VARIOUS	93	RD	99,974		
	NIH NIH NATIONAL CENTER FOR RESEARCH RESOURCES (ARRA)	VARIOUS	93	RD	-720		
	CDC CENTERS FOR DISEASE CONTROL AND PREVENTION (ARRA)	VARIOUS	93	RD	111,485		
	PHS AGENCY FOR HEALTHCARE RESEARCH AND QUALITY (ARRA)	VARIOUS	93	RD	146,713		
	NIH NATIONAL CANCER INSTITUTE	VARIOUS	93	RD	32,401		
	NIH NATIONAL HEART, LUNG AND BLOOD INSTITUTE	VARIOUS	93	RD	61,877		
	NIH NATIONAL INST OF ALLERGY AND INFECTIOUS DISEASES	VARIOUS	93	RD	2,045,062		
	NIH MENTAL HEALTH, NATIONAL INSTITUTE OF (NIMH)	VARIOUS	93	RD	1,285,644	466,180	
	NIH NATIONAL EYE INSTITUTE	VARIOUS	93	RD	1,701,164	525,918	
	NIH NATIONAL HUMAN GENOME RESEARCH INSTITUTE	VARIOUS	93	RD	1,414,001	696,369	
	NIH NATIONAL INSTITUTE OF BIOMEDICAL IMAGING AND BIOENGINEERING	VARIOUS	93	RD	399,756		
	NIH NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCE	VARIOUS	93	RD	891,640		
	NIH NATIONAL INSTITUTE ON MINORITY HEALTH AND HEALTH DISPARITIES	VARIOUS	93	RD	241,799		
	NIH NATIONAL INSTITUTES OF HEALTH CENTER FOR SCIENTIFIC REVIEW	VARIOUS	93	RD	14,697		
	NIH NEUROLOGICAL DISORDERS & STROKE, NATIONAL INSTITUTE OF	VARIOUS	93	RD	515,264		
	NIH AGING, NATIONAL INSTITUTE ON	VARIOUS	93	RD	118,426,338	17,832,904	
	NIH CHILD HEALTH & HUMAN DEVELOPMENT, NATIONAL INSTITUTE OF	VARIOUS	93	RD	1,322,245	729,464	
	NIH DRUG ABUSE, NATIONAL INSTITUTE OF	VARIOUS	93	RD	802,712	150,496	
	OHDS HHS/MISCELLANEOUS AGENCIES & DEPARTMENTS	VARIOUS	93	RD	807,690		
	Passthrough/Partial Passthrough						
		AMERICAN ACADEMY OF CHILD & ADOLESCENT PSYCHIATRY	008661	93	RD	2,916	
		ATOX BIO	ATB-202-CYC1	93	RD	-3,399	
		BLOOD SYSTEMS, INC. DBA BLOOD SYSTEMS RESEARCH INSTITUTE	10841UCD132	93	RD	68,206	
		BLOOD SYSTEMS, INC. DBA BLOOD SYSTEMS RESEARCH INSTITUTE	10841UCSF100	93	RD	7,920	
		CALIFORNIA ASSOCIATION OF HEALTH FACILITIES	201502630	93	RD	149,578	
		CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	16-10190	93	RD	4,940,824	
		CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	1820B	93	RD	-17,107	
		CELLERANT THERAPEUTICS, INC.	79617	93	RD	2,579	
		CHILDREN'S HOSPITAL OF PHILADELPHIA	950008021512C	93	RD	7,931	
		CHILDREN'S HOSPITAL OF PHILADELPHIA	950010071504C	93	RD	41,467	
		CHILDREN'S HOSPITAL OF PHILADELPHIA	A123897	93	RD	15,556	
		CHILDREN'S MERCY HOSPITAL, THE	82391	93	RD	-20,566	
		COLORADO STATE UNIVERSITY	89359	93	RD	-1,577	
	COLUMBIA UNIVERSITY	U19A1067773	93	RD	82,459		
	COMMUNITY HEALTH IMPROVEMENT PARTNERS	SUB 5834-122-01 (DP005834)	93	RD	66,234		
	DANA-FARBER CANCER INSTITUTE	R01CA172067	93	RD	14,240		
	DUKE UNIVERSITY	88036	93	RD	-938		
	DUKE UNIVERSITY	206993 2752010000031	93	RD	-62		
	EMMES CORPORATION, THE	82569	93	RD	17,968		
	EMMES CORPORATION, THE	A6889	93	RD	19,959		
	EPIGEN BIOSCIENCES, INC.	89181	93	RD	-304		
	ETHIOPIAN PUBLIC HEALTH ASSOCIATION	88951	93	RD	44		
	FHI 360	PO16001621	93	RD	422,837	388,552	
	FHI 360	PO17003415	93	RD	454,547	431,787	
	HEALTH RESEARCH ASSOCIATES, INC	B7066	93	RD	-299		
	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	02580512HHSN272201400008C	93	RD	323,142		
	KAISER PERMANENTE DIVISION OF RESEARCH	201503226	93	RD	31,433		
	LEIDOS BIOMEDICAL RESEARCH, INC.	16X114	93	RD	900,934		
	LP THERAPEUTICS, INC.	201602618	93	RD	61,515		
	MANDALMED, INC.	A128262	93	RD	171,155		
	MASSACHUSETTS GENERAL HOSPITAL	NN102	93	RD	21,629		
	MASSACHUSETTS GENERAL HOSPITAL	87A57	93	RD	14,999		
	MASSACHUSETTS GENERAL HOSPITAL	NN101	93	RD	31,398		
	N2 BIOMEDICAL	008514	93	RD	187,734		
	NANOCOLLECT BIOMEDICAL, INC.	SUB 20181937 (GM128223)	93	RD	15,890		
	NANOCOLLECT BIOMEDICAL, INC.	89065	93	RD	3,507		
	NATIONAL FRAGILE X FOUNDATION	201603349	93	RD	2,394		
	NATIONAL JEWISH MEDICAL AND RESEARCH CENTER	87508	93	RD	-379		
	NEWOMICS, INC.	86107	93	RD	33,274		
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	WEI2015-02	93	RD	200,422		
	NORTHROP GRUMMAN CORPORATION	7500128578	93	RD	32,357		
	NORTHROP GRUMMAN SYSTEMS CORPORATION	7500133818	93	RD	442,477	217,046	
	OREGON HEALTH & SCIENCE UNIVERSITY	201500026	93	RD	2,752		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	OREGON HEALTH & SCIENCE UNIVERSITY	S1320	93	RD	1,018	
	OREGON HEALTH & SCIENCE UNIVERSITY	1010095_UCDAVIS	93	RD	126,430	
	RESEARCH FOUNDATION FOR STATE UNIVERSITY OF NEW YORK, THE	U01CA221244	93	RD	8,656	
	REVERAGEN BIOPHARMA, INC.	201701161	93	RD	30,478	
	REVERAGEN BIOPHARMA, INC.	201701162	93	RD	28,205	
	RUSH UNIVERSITY MEDICAL CENTER	15122904-SUB01-CYC1	93	RD	32,740	
	RXBIO HOLDINGS, INC.	201601959	93	RD	878	
	SAN DIEGO COUNTY	88727	93	RD	-9,534	
	SANFORD RESEARCH	SR201713	93	RD	19,508	
	SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION	201702238	93	RD	6,000	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	B4163	93	RD	9,521	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-SSS-S-15-004544	93	RD	546,868	
	SOFIE BIOSCIENCES, INC	B9572	93	RD	15,493	
	SOUTH AFRICAN NATIONAL AIDS COUNCIL TRUST	A128879	93	RD	137,371	115,741
	SRI INTERNATIONAL	21912	93	RD	8,986	
	STANFORD UNIVERSITY	28569	93	RD	2,099	
	STATE OF MARYLAND	17-17509-G	93	RD	170,228	
	STOCHASTECH CORPORATION	201700616	93	RD	27,716	
	TELESECURITY SCIENCES, INC.	TSS160003	93	RD	2,380	
	TELESECURITY SCIENCES, INC.	A17-0250	93	RD	156,062	
	THE SCRIPPS RESEARCH INSTITUTE	SUB ADVANCE APPROVAL	93	RD	18,315	
	THE UNIVERSITY OF ALABAMA (TUSCALOOSA)	5028895P004001	93	RD	374,715	
	UNIVERSITY OF COLORADO DENVER	FY18.572.001-CYC1	93	RD	11,867	
	UNIVERSITY OF FLORIDA	89522	93	RD	22,371	
	UNIVERSITY OF FLORIDA	UFDSP00011069	93	RD	77,201	
	UNIVERSITY OF IOWA	W000696003	93	RD	252,999	
	UNIVERSITY OF MARYLAND	-Z0746001	93	RD	69,290	
	UNIVERSITY OF MARYLAND	HHSN27200013-FY.2017.A1B1C1C	93	RD	195,131	
	UNIVERSITY OF NEVADA, RENO	R01GM101928	93	RD	12,905	
	UNIVERSITY OF PENNSYLVANIA	562134	93	RD	-13,029	
	UNIVERSITY OF SOUTH FLORIDA	09000015	93	RD	3,004	
	UNIVERSITY OF SOUTHERN CALIFORNIA	100574101-CYC1	93	RD	22,159	
	UNIVERSITY OF TEXAS-SOUTHWESTERN MEDICAL CENTER AT DALLAS	83117	93	RD	12,234	
	UNIVERSITY OF UTAH	10035609	93	RD	28,101	
	UNIVERSITY OF UTAH	10035609-UCSF PEACE	93	RD	-1	
	UNIVERSITY OF UTAH	B6060	93	RD	1,934	
	UNIVERSITY OF VERMONT	28557SUBUCDAVIS	93	RD	86,515	
	UNIVERSITY OF WASHINGTON	3UH3MH106338	93	RD	35,508	
	UNIVERSITY OF WASHINGTON	762195	93	RD	155,126	
	WASHINGTON UNIVERSITY IN ST. LOUIS	87801	93	RD	2,330	
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU117327	93	RD	37,937	
	WESTAT	SUB S8954 (HHSN271201100027C	93	RD	97,537	
	KAISER FOUNDATION RESEARCH INSTITUTION	HHSA290201200015I	93	RD	7,312	
	CELL BIOLOGICS, INC.	C1890	93	RD	72,555	
	NANOMIX INC.	A18-1309	93	RD	2,285	
	RADOPTICS LLC	009094	93	RD	17,467	
	UNIVERSITY OF COLOMBO	2223475-CYC1	93	RD	49,556	
					1,987,582,844	264,177,091
DEPARTMENT OF HEALTH AND HUMAN SERVICES Total					2,237,663,604	280,162,711
CORPORATION FOR NATIONAL AND COMMUNITY SERVICE	Passthrough/Partial Passthrough					
	JUMPSTART FOR YOUNG CHILDREN, INC.	89522	94	006	12,058	
	JUMPSTART FOR YOUNG CHILDREN, INC.	18-490200-CYC20	94	006	147,481	
	JUMPSTART FOR YOUNG CHILDREN, INC.	490200-CYC19	94	006	49,719	
	JUMPSTART FOR YOUNG CHILDREN, INC.	60368	94	006	61,239	
					270,497	
	Passthrough/Partial Passthrough					
	CORPORATION FOR NATIONAL AND COMMUNITY SERVICE	17REHCA001	94	026	28,544	
					28,544	
CORPORATION FOR NATIONAL AND COMMUNITY SERVICE Total					299,041	
SOCIAL SECURITY ADMINISTRATION	Passthrough/Partial Passthrough					
	UNIVERSITY OF MICHIGAN	3004717564	96	001	32,821	
					32,821	
	Passthrough/Partial Passthrough					
	XERIS PHARMACEUTICALS, INC.	A129827	96	847	23,125	
					23,125	
SOCIAL SECURITY ADMINISTRATION Total					55,946	
DEPARTMENT OF HOMELAND SECURITY						

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DEPARTMENT OF HOMELAND SECURITY	Passthrough/Partial Passthrough						
	THE CENTER FOR RURAL DEVELOPMENT	FY140009203UCDAVIS	97	005		57,903	57,903
	Passthrough/Partial Passthrough						
	HRL LABORATORIES, LLC	14089-503866-DS-CYC6	97	007		69,191	
	UNIVERSITY OF SOUTHERN CALIFORNIA	73880521	97	007		163,103	
	SURESCAN CORPORATION	042378	97	007		113,904	346,198
	Passthrough/Partial Passthrough						
	CALIFORNIA DIVISION OF BOATING AND WATERWAYS	C8960305	97	012		40,000	
	CALIFORNIA DIVISION OF BOATING AND WATERWAYS	C8962330	97	012		39,990	79,990
	Passthrough/Partial Passthrough						
	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB 20174100-SIBS (EMW-2016-F	97	044		186,242	
	SKIDMORE COLLEGE	32170-1	97	044		245,542	431,784
	Passthrough/Partial Passthrough						
	ARIZONA STATE UNIVERSITY/TEMPE	ASU-209466-CYC1	97	061		31,662	31,662
	Passthrough/Partial Passthrough						
	GEORGE MASON UNIVERSITY	E2033681-CYC3	97	065		125,615	125,615
	Passthrough/Partial Passthrough						
	PEPPERPRINT	UCB2015-HSHQDC-15-C-B0010	97	077		196,659	
	UNIVERSITY OF OREGON	251370A:2	97	077		66,945	263,604
	Passthrough/Partial Passthrough						
UNIVERSITY OF ILLINOIS	2016-01414-01-01:01	97	108		96,441	96,441	
Direct							
DEPARTMENT OF HOMELAND SECURITY	VARIOUS	97	RD		1,910,062	34,375	
Passthrough/Partial Passthrough							
SIGNATURE SCIENCE, LLC	S1020	97	RD		175,613		
DEPARTMENT OF HOMELAND SECURITY Total					2,085,675	34,375	
AGENCY FOR INTERNATIONAL DEVELOPMENT					3,518,872	34,375	
Passthrough/Partial Passthrough							
ASTRAEA NATIONAL LESBIAN ACTION FOUNDATION	GLHRP---15--1	98	001		24,431		
COLLEGE OF WILLIAM AND MARY	740681-T	98	001		65,619		
HARVARD UNIVERSITY	88965	98	001		3,893		
INTERNATIONAL BUSINESS & TECHNICAL CONSULTANTS, INC.	15-IBTCI-00027	98	001		101,563		
INTERNATIONAL PLANNED PARENTHOOD FEDERATION	SIFP02-SA3-51214010	98	001		137,013		
MANAGEMENT SCIENCES FOR HEALTH, INC	A295-2013-001	98	001		64,272		
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710003316	98	001		9,841		
METABIOTA, INC	B5687	98	001		-8,046		
MICHIGAN STATE UNIVERSITY	RC102194FIGIRRIG	98	001		19,807		
MICHIGAN STATE UNIVERSITY	RC102194UCDAVIS	98	001		46,307		
MITCHELL GROUP, INC.	86207	98	001		336		
NATIONAL ACADEMY OF SCIENCES	2000007143	98	001		48,703		
NATIONAL ACADEMY OF SCIENCES	009660	98	001		5,223		
NATIONAL ACADEMY OF SCIENCES	2000009144	98	001		3,403		
NAVRONGO HEALTH RESEARCH CENTRE	FY16-RFAA02-6011-NHRC-02	98	001		718		
NEW YORK UNIVERSITY	F7465-01	98	001		23,672		
OHIO STATE UNIVERSITY	60054302	98	001		5,246		
PARTNERS IN HOPE (MALAWI)	20171450:1	98	001		310,900		
PARTNERS IN HOPE (MALAWI)	79231	98	001		-17,384		
POPULATION COUNCIL - NEW YORK	SH1503	98	001		20,563		
RIGHT TO CARE	20163138	98	001		1,346,241		
RTI INTERNATIONAL	888-13-16-10	98	001		15,701		
RTI INTERNATIONAL	043706-00001	98	001		15,624		
SOCIAL IMPACT, INC.	G001-000-S-11-0490	98	001		36,644		
SUSTAINABLE SCIENCES INSTITUTE	USAID-4100-2	98	001		24,284		
TUFTS UNIVERSITY	201502576	98	001		155,875	87,827	

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients	
AGENCY FOR INTERNATIONAL DEVELOPMENT	UCP WHEELS FOR HUMANITY	80041	98	001	18,361		
	UNIVERSITY OF FLORIDA	UFDSP00011429	98	001	164,355	47,300	
	UNIVERSITY RESEARCH CO., LLC	041898	98	001	8,769		
	INTERNATIONAL RESCUE COMMITTEE, INC	AID-OFDA-A-17-00064	98	001	152,532		
	INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE	2017X411.UCD	98	001	33,710		
					2,838,176	135,127	
	Passthrough/Partial Passthrough	NORTHEASTERN UNIVERSITY	500421-78053	98	865	12,473	
					12,473		
	Passthrough/Partial Passthrough	ALLEN INSTITUTE FOR BRAIN SCIENCE	2014-0571	98	RD	188,156	
		FHI 360	G000060	98	RD	667	
		HARVARD UNIVERSITY	89774	98	RD	47,880	
		INTERNATIONAL MAIZE AND WHEAT IMPROVEMENT CENTER	016258	98	RD	994,692	230,589
		INTERNATIONAL MAIZE AND WHEAT IMPROVEMENT CENTER	IWYP76FP	98	RD	247,823	
		MICHIGAN STATE UNIVERSITY	RC107526 UC DAVIS	98	RD	33,927	
		NATIONAL ACADEMY OF SCIENCES	2000006165	98	RD	10,567	
	NATIONAL ACADEMY OF SCIENCES	2000007151	98	RD	20,186		
	NATIONAL ACADEMY OF SCIENCES	AID0AAA1100012	98	RD	52,595		
	PURDUE UNIVERSITY	38A38	98	RD	3,628		
					1,600,121	230,589	
AGENCY FOR INTERNATIONAL DEVELOPMENT Total					4,450,770	365,716	
OTHER FEDERAL AGENCIES							
	Direct						
	CONSUMER FINANCIAL PROTECTION BUREAU	VARIOUS	99	RD	-36,894		
	FEDERAL COMMUNICATIONS COMMISSION	VARIOUS	99	RD	12,010		
	Passthrough/Partial Passthrough						
	3E TECHNOLOGIES INTERNATIONAL, INC.	59639	99	RD	2,643		
	ADVANCED OXIDE DEVICES, LLC	59013	99	RD	-673		
	AECOM TECHNICAL SERVICES	14C-16487-LB23, TASK ORDER 02	99	RD	31,931		
	AERODYNE RESEARCH, INC.	ARI 11325-1	99	RD	32,972		
	AEROSPACE CORPORATION	20182871	99	RD	15,327		
	AGNITRON TECHNOLOGY, INC.	SB170018	99	RD	24,005		
	AGNITRON TECHNOLOGY, INC.	SB180059	99	RD	21,406		
	ALLIANCE FOR SUSTAINABLE ENERGY, LLC	XHQ-7-70127-01	99	RD	24,400		
	ALMOND BOARD OF CALIFORNIA	16.ENT08.JOYCE	99	RD	12,877		
	AMERICAN THROMBOSIS AND HEMOSTASIS NETWORK	ATHN2014 ATHN 2 842 1	99	RD	28,721		
	ANGSTROM DESIGNS ENGRG SERV	NASA STTR UCSB 101617-UCSB04	99	RD	63,758		
	ARIZONA STATE UNIVERSITY/TEMPE	17-253	99	RD	24,292		
	ARIZONA STATE UNIVERSITY/TEMPE	A16-0487-005	99	RD	25,540		
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-15031.001-A	99	RD	18,498		
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14474.001-A	99	RD	27,491		
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-15344.001-A	99	RD	28,645		
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	SUB HST-GO-14610.010-A (NASS-	99	RD	25,386		
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	SUB HST-GO-14675.008-A (NASS-	99	RD	18,209		
	ATOX BIO	SUB ATB-202 (HHSO1002014000C	99	RD	22,293		
	BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC.	976298	99	RD	19,203		
	BCN BIOSCIENCES	HHSN272201500004C	99	RD	223,397		
	BCN BIOSCIENCES	79298	99	RD	57,297		
	BIOLINO, INC.	SUB 20182120 (AA024643)	99	RD	12,509		
	BODIMOJO	79295	99	RD	852		
	BOEING COMPANY, THE	1468949	99	RD	316,948		
	BOEING COMPANY, THE	1477408	99	RD	196,771		
	BOISE STATE UNIVERSITY	20163497	99	RD	33,106		
	BOOZ ALLEN HAMILTON INC.	27861	99	RD	26,913		
	BORON SPECIALTIES, LLC	20181672	99	RD	46,351		
	BRIGHAM AND WOMEN'S HOSPITAL	114342	99	RD	32		
	BRIGHAM YOUNG UNIVERSITY	A15-0216-003	99	RD	245,209		
	BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	009621	99	RD	14,995		
	BROOKHAVEN NATIONAL LABORATORY/BROOKHAVEN SCIENCE ASSOCIATES, LLC	A00-1382-015	99	RD	30,515		
	CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY	14418	99	RD	24,119		
	CALIFORNIA DEPARTMENT OF EDUCATION	CN150380	99	RD	1,383,914	192,786	
	CALIFORNIA DEPARTMENT OF EDUCATION	CN170223	99	RD	60,354	5,499	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB14-CWP-UCSB	99	RD	20,267		
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	14-10802	99	RD	5,619		
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	MCA8995SC (14-10709)	99	RD	49,755		
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	SUB 16-10844 (NONE)	99	RD	235,217		
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	16-10014	99	RD	101,567		
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	18-10092	99	RD	75,591		

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OTHER FEDERAL AGENCIES	CALIFORNIA STATE COASTAL CONSERVANCY	15-050	99	RD	2,398	
	CEDARS-SINAI MEDICAL CENTER	0001395754	99	RD	43,265	
	CH2M HILL	101000049	99	RD	12,000	
	CH2M HILL	871EA	99	RD	1,778	
	CH2M HILL	CH2M 10006-7-10584E	99	RD	66,521	
	CHROMOLOGIC	HHSN272201700012C	99	RD	130,079	
	COGNIONICS, INC.	SUB UCSD062016(N00014-16-C-1	99	RD	20,159	
	COGNIONICS, INC.	SUB UCSD093016 (W81XWH-18-C	99	RD	26,735	
	COLORADO SCHOOL OF MINES	401245-5803	99	RD	39,166	
	COLORADO STATE UNIVERSITY	007958	99	RD	169,689	
	CREARE INCORPORATED	CREARE 83251	99	RD	204,983	
	CRYSTAL RESEARCH INC	79286	99	RD	-14,630	
	DANA-FARBER CANCER INSTITUTE	SUB 20171987(NONE)	99	RD	27,742	
	DISTANT FOCUS CORPORATION	SUB P4010 (W15QKN-17-C-0008)	99	RD	71,268	
	DUKE UNIVERSITY	SUB 20144899 (HHSN-275201000	99	RD	1,517	
	DUKE UNIVERSITY	SUB 203-8392 (HHSN2752010000	99	RD	18,299	
	DUKE UNIVERSITY	SUB 212079 (HHSO10020130000	99	RD	429	
	DUKE UNIVERSITY	SUB 218708 (HHSN275201000003	99	RD	6,014	
	DUKE UNIVERSITY	2035951	99	RD	3,450	
	DUKE UNIVERSITY	6690	99	RD	2,937	
	DUKE UNIVERSITY	89478	99	RD	-1,053	
	DUKE UNIVERSITY	HHSN- 275201000003I	99	RD	212	
	DUKE UNIVERSITY	SUB 203-8494 (HHSN2752010000	99	RD	17,904	
	EASTERN RESEARCH GROUP, INC.	009654	99	RD	20,099	
	EDUCATION, TRAINING & RESEARCH ASSOCIATES	63483	99	RD	458,371	
	EDUCATION, TRAINING & RESEARCH ASSOCIATES	A00-0712-004	99	RD	433,570	
	EDUCATION, TRAINING & RESEARCH ASSOCIATES	65004	99	RD	56,556	
	ENGLITY CORP.	873G2	99	RD	45,603	
	ENGLITY CORP.	PO-0011431	99	RD	32,688	
	ENGLITY CORP.	877EB	99	RD	177,438	
	ENGLITY CORP.	SUB PO-0011431 14463-PETTT-UI	99	RD	73,870	
	ERC, INCORPORATED	PO NO. PS150006	99	RD	43,716	
	ERC, INCORPORATED	PO NO. PS150008	99	RD	63,746	
	FEINSTITUTEIN INSTITUTE FOR MEDICAL RESEARCH	79028	99	RD	-5,631	
	FERMI RESEARCH ALLIANCE, LLC (FRA) (INCL FERMILAB-DOE GOCO)	79050	99	RD	60,973	
	FRED HUTCHINSON CANCER RESEARCH CENTER	SUB 0000865653 (HHSN2682016C	99	RD	53,161	
	FREEDOM PHOTONICS LLC	S7017-01	99	RD	71,579	
	FREEDOM PHOTONICS LLC	S7101-01	99	RD	34,427	
	FREEDOM PHOTONICS LLC	S7104-01	99	RD	20,387	
	GALOIS INC	2015-007	99	RD	345,647	
	GALOIS INC	2017-002	99	RD	191,890	
	GENERAL ATOMICS	4500067313	99	RD	249,992	
	GENERAL ATOMICS	SUB 4500071386 (DE-SC0018108)	99	RD	94,141	
	GENERAL ELECTRIC COMPANY (INCL GE HEALTHCARE, GE LIGHTING INST)	PO NO. 401038186	99	RD	106,775	
	GLOBAL ALGAE INNOVATIONS	GAI 161159	99	RD	17,836	
	GLOBAL ALGAE INNOVATIONS	171038	99	RD	95,917	
	GLOBAL SCIENCES & TECHNOLOGY, INC.	TO 002 OSTA WA 009	99	RD	47,084	
	HARVARD PILGRIM HEALTH CARE	SUB 20170593 (HHSF2232014003	99	RD	13,833	
	HASS AVOCADO BOARD	20164932	99	RD	217,934	
	HEALTH RESEARCH AND EDUCATION TRUST	57229	99	RD	-1,948	
	HEALTH RESEARCH AND EDUCATION TRUST	80781	99	RD	66,420	
	HEALTH RESEARCH AND EDUCATION TRUST	57431	99	RD	470	
	HLS RESEARCH, INC.	HLS 15-1002	99	RD	43,328	
	HONEYWELL INTERNATIONAL INC.	3501726764E	99	RD	738,899	
	HONEYWELL INTERNATIONAL INC.	3502468901E	99	RD	171,266	
	HP INC.	HPE701727	99	RD	32,906	
	HRL LABORATORIES, LLC	15082-162371-DS	99	RD	113,140	
	HRL LABORATORIES, LLC	16129-173125-QS	99	RD	82,059	
	HYPRES, INC.	009530	99	RD	14,158	
	IDAHO NATIONAL LABORATORY	185993	99	RD	59,969	
	INCEPTUS MEDICAL, LLC	79371	99	RD	-7,303	
	INCOM, INC.	044056	99	RD	28,232	
	INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY	214 UCSD-TAJIK	99	RD	43,744	
	INFERLINK CORPORATION	W81XWH-13-C-0158	99	RD	-1,288	
	INFOSCITEX CORPORATION	A16-0500-004	99	RD	70,943	
	INTERNATIONAL BUSINESS MACHINES CORPORATION	79467	99	RD	195,157	
	IQ SOLUTIONS INC.	WERB09.20.17	99	RD	6,564	
	JOHNS HOPKINS UNIVERSITY	118127.4	99	RD	4,048	
	JOHNS HOPKINS UNIVERSITY	042646	99	RD	8,129	
	LANZATECH	89407	99	RD	-7	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	A17-0824-001	99	RD	26,196	

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OTHER FEDERAL AGENCIES	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B618798	99	RD	273,356	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	25035	99	RD	-15,654	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	A17-0491-003	99	RD	6,097	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	A18-0262-001	99	RD	21,287	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B622827	99	RD	99,952	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B623027	99	RD	38,473	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B623833	99	RD	74,857	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B624602	99	RD	19,000	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B624613	99	RD	24,542	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B625943	99	RD	72,198	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B627365	99	RD	35,848	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B628096	99	RD	75,018	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B629135	99	RD	22,140	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SUB B626625 (B623353)	99	RD	21,282	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B625851	99	RD	35,923	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	25051	99	RD	-25,785	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B613524	99	RD	16,624	
	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B618203	99	RD	25,989	
	LEIDOS, INC.	P010123388 R7	99	RD	43,369	
	LINKED, INC.	20175172	99	RD	72,683	
	LOCKHEED MARTIN CORPORATION	4102694117	99	RD	1,337,002	
	LOCKHEED MARTIN CORPORATION	PO4103095524	99	RD	274,556	
	LOS ALAMOS NATIONAL SECURITY, LLC	411352	99	RD	80,714	
	LOS ALAMOS NATIONAL SECURITY, LLC	315140:1	99	RD	17,339	
	LOS ALAMOS NATIONAL SECURITY, LLC	413901	99	RD	34,390	
	LOS ALAMOS NATIONAL SECURITY, LLC	419069	99	RD	51,020	
	LOS ALAMOS NATIONAL SECURITY, LLC	466292	99	RD	115,621	
	LOS ALAMOS NATIONAL SECURITY, LLC	468451	99	RD	21,158	
	LOS ALAMOS NATIONAL SECURITY, LLC	A00-0943-004	99	RD	22,220	
	LOS ALAMOS NATIONAL SECURITY, LLC	442172	99	RD	52,252	
	LOS ANGELES COUNTY DEPARTMENT OF HEALTH SERVICES	20795	99	RD	-187	
	LOS ANGELES POLICE FOUNDATION	20144647	99	RD	108,424	
	LUNA INNOVATIONS INCORPORATED	3500.01UCSB	99	RD	37,615	
	MASSACHUSETTS GENERAL HOSPITAL	SUB 20162263(NS090259)	99	RD	36,083	
	MASSACHUSETTS GENERAL HOSPITAL	63464	99	RD	2,261	
	MAXENTRIC TECHNOLOGIES LLC	SUB UCSD-4313-1 (W9110X-16-C	99	RD	146,520	
	MOLECULAR EXPRESS	HHSN272201700081C	99	RD	64,475	
	MORTON PHOTONICS	MP-UCSB-05	99	RD	264,789	
	MORTON PHOTONICS	MP-UCSB-06	99	RD	118,842	
	MORTON PHOTONICS	MP-UCSB-07	99	RD	39,999	
	NATIONAL ACADEMY OF SCIENCES	2000008303	99	RD	103,465	
	NEVADA SYSTEM OF HIGHER EDUCATION	UNR 17-70	99	RD	14,288	
	NEW ENGLAND RESEARCH INSTITUTE, INC.	BEST-CLI	99	RD	869	
	NEW YORK UNIVERSITY	16-A1-00-005413-01	99	RD	82,685	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	84238 - 01 - 444957	99	RD	96,586	
	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	84230 - 01 - 558787	99	RD	55,947	
	NORTHROP GRUMMAN CORPORATION	PO 8140000803	99	RD	7,163	
	NORTHROP GRUMMAN CORPORATION	8140000936	99	RD	271,577	
	NORTHWELL HEALTH INC	57056	99	RD	-63	
	NOVATEUR RESEARCH SOLUTIONS LLC	SUB 20152569 (N0014-16-C-1007)	99	RD	50,000	
	OAK RIDGE NATIONAL LABORATORY	4000154999	99	RD	119,202	
	OAK RIDGE NATIONAL LABORATORY	4000158675	99	RD	65,708	
	OAK RIDGE NATIONAL LABORATORY	400156470	99	RD	116,352	
	OAK RIDGE NATIONAL LABORATORY	79148	99	RD	49	
	OCEANIT LABORATORIES, INC.	20174411	99	RD	77,302	
	OEWAIVES	20175273	99	RD	50,612	
	OREGON STATE UNIVERSITY	SUB F1000A-B (6920)	99	RD	5,438	
	PALO ALTO RESEARCH CENTER	SUB 313037 (NONE)	99	RD	109,336	
	PELAGIQUE, LLC	W81XWH-16-C-0146	99	RD	357,651	
	PELAGIQUE, LLC	20130580	99	RD	1,346	
	PENNSYLVANIA STATE UNIVERSITY	LS17-23	99	RD	333,299	
	PHYSICAL SCIENCES INC.	76950-6938	99	RD	45,143	
	PREDICTIVE SCIENCE INC.	20154780:001	99	RD	139,664	
	PRINCETON PLASMA PHYSICS LABORATORY	S015719-H	99	RD	98,993	
	PRINCETON PLASMA PHYSICS LABORATORY	SUB S015887-C (DE-ACO2-09CH1	99	RD	17,364	
	PUBLIC POLICY INSTITUTE OF CALIFORNIA	PPIC (20170091) IES	99	RD	117,092	
	Q-CHEM, INC.	1R43GM121126-01A1	99	RD	18,576	
	QUANTUM APPLIED SCIENCE AND RESEARCH, INC.	SUB 20151743 (W81XWH-12-C-0C	99	RD	391	
	QUESTEK INNOVATIONS LLC	1597	99	RD	55,159	22,193
	RADIABEAM TECHNOLOGIES, LLC	20164153	99	RD	159,811	
	RADIABEAM TECHNOLOGIES, LLC	20164239	99	RD	204,153	

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OTHER FEDERAL AGENCIES	RAND CORP	9920160065:01	99	RD	50,852	
	RAND CORP	9920180039	99	RD	41,123	
	RDRTEC	SUB 20161480 (NONE)	99	RD	7,718	
	RICE UNIVERSITY	R18719	99	RD	116,091	
	RIGHT TO CARE	20175168	99	RD	65,024	
	SAN DIEGO COUNTY	SUB 554660 (NONE)	99	RD	1,856,984	
	SCARLESS LABORATORIES, INC	1R44DE026080-01	99	RD	106,249	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-SSS-S-15-004566	99	RD	46,932	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-SSS-S-16-005087	99	RD	282,583	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	SUB CRB-SSS-S-15-004567 (HHSN 79191)	99	RD	184,442	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-SSS-S-17-005215	99	RD	-805	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-SSS-S-17-005217	99	RD	356	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-SSS-S-17-005252	99	RD	45,471	
	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	SUB 20173862(CRB-SSS-S-16-005	99	RD	2,476	
	SOITEC SOLAR	20130388 (W912HQ-13-C-0032)	99	RD	49,284	
	SOUTHWEST RESEARCH INSTITUTE	J99010MO:4	99	RD	37,422	
	SOUTHWEST RESEARCH INSTITUTE	J99090AD	99	RD	233,923	
	SRI INTERNATIONAL	A17-0607-001	99	RD	72,242	
	SRI INTERNATIONAL	P020682	99	RD	253,360	
	STANFORD UNIVERSITY	63904	99	RD	71,216	
	STATE UNIVERSITY OF NEW YORK	SUB 68799(DESC0012583)	99	RD	18,394	
	STATE UNIVERSITY SYSTEM OF FLORIDA	16266110-03	99	RD	305,468	
	SWOG	S1607	99	RD	40,737	
	SYSTEM OF SYSTEMS SECURITY CONSORTIUM	SUB PLA-0009 (FA8750-16-9-900C	99	RD	191	
	TELEDYNE TECHNOLOGIES, INC.	PO00130549	99	RD	171,885	
	TELEDYNE TECHNOLOGIES, INC.	PO00140147	99	RD	38,925	
	TEXAS A&M UNIVERSITY - COLLEGE STATION	AB0313907	99	RD	1,664	
	THINK-NOW INC.	20154140	99	RD	149,373	
	TOYON RESEARCH CORPORATION	SC18-F072-1	99	RD	107,403	
	TOYON RESEARCH CORPORATION	SC18-F077-1	99	RD	21,356	
	TRISTAN TECHNOLOGIES	008499	99	RD	48,877	
	TUNITAS THERAPEUTICS	77997	99	RD	17,951	
	ULTRAMET	SUB 14790 (DE-SC0017846)	99	RD	-8,461	
	UNITED PURPOSE	A16-0164-005	99	RD	20,000	
	UNIVERSITIES RESEARCH ASSOCIATION (OPERATES FERMILAB)	618150	99	RD	31,919	
	UNIVERSITIES RESEARCH ASSOCIATION (OPERATES FERMILAB)	633547	99	RD	2,927	
	UNIVERSITIES RESEARCH ASSOCIATION (OPERATES FERMILAB)	603654:12	99	RD	246,293	
	UNIVERSITIES SPACE RESEARCH ASSOCIATION	08500-05:83	99	RD	317,587	
	UNIVERSITIES SPACE RESEARCH ASSOCIATION	SUB 08600-012 (NNA16BD14C)	99	RD	81,383	
	UNIVERSITIES SPACE RESEARCH ASSOCIATION	NAS2-97001	99	RD	54,341	
	UNIVERSITY OF ARIZONA	20152604 (HHSN2612012000311)	99	RD	539	
	UNIVERSITY OF ARIZONA	SUB 20160294 (HHSN261201200C	99	RD	91,460	
	UNIVERSITY OF ARIZONA	009643	99	RD	6,750	
	UNIVERSITY OF HAWAII AT MANOA	MA1226	99	RD	15,972	
	UNIVERSITY OF IOWA	57016	99	RD	18,310	
	UNIVERSITY OF MARYLAND	59744-Z9177201	99	RD	-3,914	
	UNIVERSITY OF MEMPHIS	A17-0190-S005	99	RD	87,178	
	UNIVERSITY OF MICHIGAN	3002565073:7	99	RD	261,890	
	UNIVERSITY OF MICHIGAN	3004829743-CYC1	99	RD	64,662	
	UNIVERSITY OF MINNESOTA	A005821705 :2	99	RD	13,443	
	UNIVERSITY OF NEW HAMPSHIRE	06-001	99	RD	30,000	
	UNIVERSITY OF NEW HAMPSHIRE	17-007-002	99	RD	883,018	113,755
	UNIVERSITY OF NOTRE DAME (INCL GEM)	202809UCSB	99	RD	138,110	
	UNIVERSITY OF NOTRE DAME (INCL GEM)	203278UCB	99	RD	16,183	6,787
	UNIVERSITY OF NOTRE DAME (INCL GEM)	203278UCSB	99	RD	124,950	
	UNIVERSITY OF PENNSYLVANIA	567391	99	RD	61,381	
	UNIVERSITY OF PITTSBURGH	0024031-5:05	99	RD	126,577	
	UNIVERSITY OF PITTSBURGH	0051433-1	99	RD	148,964	
	UNIVERSITY OF PITTSBURGH	SUB 0054687 ((129571-1)) (DK05	99	RD	17,232	
	UNIVERSITY OF PITTSBURGH	0051433-5	99	RD	7,417	
	UNIVERSITY OF SOUTH FLORIDA	A16-0255-002	99	RD	40,273	
	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 77364731 (WEI1675-1915)	99	RD	28,005	
	UNIVERSITY OF SOUTHERN CALIFORNIA	77793929:1	99	RD	3,063	
	UNIVERSITY OF SOUTHERN CALIFORNIA	95781679	99	RD	77,728	
	UNIVERSITY OF SOUTHERN CALIFORNIA	95994470	99	RD	52,971	
	UNIVERSITY OF SOUTHERN CALIFORNIA	90121560	99	RD	694,879	
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	SUB 163149/163145 (1-SRA-2018	99	RD	292,907	
	UNIVERSITY OF UTAH	79267	99	RD	38,508	
	UNIVERSITY OF VIRGINIA	G118518.156867	99	RD	-2,015	
	UNIVERSITY OF VIRGINIA	G118518.156870	99	RD	66,308	
			99	RD	22,705	

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
OTHER FEDERAL AGENCIES	VANDERBILT UNIVERSITY	SUB VUMC 44030 (HHSN2722014)	99	RD	194,576	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	8737E	99	RD	-182	
	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA 316054 MORLAND (W81XWH	99	RD	46,189	
	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-17-448	99	RD	58,863	
	WESTAT	6101-S074	99	RD	92,787	
	WESTAT	SUB 6410-S-02 (HHSN271201600	99	RD	96,640	
	WESTAT	6101-S080	99	RD	185,037	
	WESTAT	78139	99	RD	361,060	
	WESTAT	D2395	99	RD	3,305	
	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A101326	99	RD	195,874	
	WYLE LABORATORIES	T73047	99	RD	-4,552	
	WYLE LABORATORIES	B5239	99	RD	325	
	ZIVA CORPORATION	SUB 20172159 (W31P4Q-14-C-00	99	RD	65,496	
	ZYMERGEN, INC.	4282	99	RD	154,451	
	SEMICONDUCTOR RESEARCH CORPORATION	2018-JU-2778	99	RD	687,332	338,888
	CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION	65A0638	99	RD	9,655	
	BECHTEL CORPORATION	120366	99	RD	86,128	
	GEOSYNTEC CONSULTANTS	1972PFAS-1	99	RD	39,763	
	10DBX LLC	10DBX 7243-2017-2767	99	RD	63,907	
	ACTASYS INC.	20172954	99	RD	22,276	
	ADV MATERIALS INNOVATIONS	SUB NONE (NNX17CJ14P)	99	RD	26,628	
	APTIMA, INC.	SUB 1238-2063 (W81XWH-18-C-0	99	RD	16,421	
	BURLESON CONSULTING, INC.	SNA-001	99	RD	1,971	
	CALIFORNIA ASSOCIATION OF SANITATION AGENCIES	17-DG-11052021	99	RD	8,190	
	CALIFORNIA OLIVE COMMITTEE	A18-0057	99	RD	18,921	
	DIAGNOSTIC BIOCHIPS, INC.	2017-UCSB-001	99	RD	59,867	
	FENWAY HEALTH	422-UCLA	99	RD	35,033	
	FIRST RF CORPORATION	SUB T20136 (W31P4Q-17-C-0097)	99	RD	61,764	
	FORWARD PHOTONICS, LLC	N17A-T006	99	RD	37,209	
	GARVAN INSTITUTE OF MEDICAL RESEARCH	APP1122227	99	RD	32,902	
	HENNEPIN HEALTHCARE RESEARCH INSTITUTE	20180148	99	RD	20,362	
	HENNINGSON, DURHAM & RICHARDSON, INC.	HDR MSA 1000300000780, TO 1 -	99	RD	315,089	
	IMAGINAB INC.	79256	99	RD	-13,722	
	JP ANALYTICS, LLC	CV17001	99	RD	51,419	
	NANO-BIO MANUFACTURING CONSORTIUM	20172854	99	RD	200,000	
	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	1862252	99	RD	30,238	
	NEUREN PHARMACEUTICALS, INC	78529	99	RD	-1,974	
	NUMERATE, INC.	1R43HL139143-01	99	RD	18,613	
	NUMERATE, INC.	78126	99	RD	12,427	
	OPERANT SOLAR CORPORATION	57114	99	RD	11,498	
	PANERATECH, INC.	SB2FA955016C0029	99	RD	246,685	
	SEGAN LLC	78107	99	RD	11,624	
	SPACE SCIENCES INNOVATIONS INC.	20181667	99	RD	13,789	
	SURFORCE, LLC	SB180082	99	RD	62,274	
	UC SEA GRANT COLLEGE PROGRAM	A18-0061	99	RD	27,772	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-AR-13258.008-A	99	RD	31,064	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13826.019-A	99	RD	23,963	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14154.001-A	99	RD	626	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14808.002-A	99	RD	28,801	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-14922.003-A	99	RD	22,229	
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-15265.002-A	99	RD	23,797	
	U.S. HIGHBUSH BLUEBERRY COUNCIL	201700387	99	RD	96,467	21,327
	U.S. HIGHBUSH BLUEBERRY COUNCIL	20170763	99	RD	78,933	
					28,294,754	701,236
OTHER FEDERAL AGENCIES Total					28,294,754	701,236
Research and Development Cluster Total					3,586,191,028	437,527,672
DEPARTMENT OF HEALTH AND HUMAN SERVICES - TITLE IV-E FOSTER CARE PROGRAM CLUSTER						
DEPARTMENT OF HEALTH AND HUMAN SERVICES	Passthrough/Partial Passthrough					
	BUTTE, COUNTY OF	22198	93	658	5,023	
	CALAVERAS, COUNTY OF	C000113532	93	658	-7	
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	00009523	93	658	23,596	
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	142009	93	658	55,150	
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	142021	93	658	25,676	
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	15-IA-00850	93	658	3,390	-5,916
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	15-IA-01124	93	658	2,663,486	129,818
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	16-IA-00775	93	658	34,904,675	31,683,232
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	16-IA-00870	93	658	151,707	
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	33475	93	658	75	
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	14-2025	93	658	-2,214	-2,214
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	15-IA-01125	93	658	1,990,623	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	17-3027	93	658	2,452,741	
	COUNTY OF SONOMA	CW-2016-33	93	658	988	
	COUNTY OF SONOMA	26A95	93	658	-2,465	
	FRESNO COUNTY	EW-2017-08	93	658	210,267	
	GLENN, COUNTY OF	81A39	93	658	1,923	
	GLENN, COUNTY OF	CMS-2017-09	93	658	168,519	
	INYO, COUNTY OF	EW-2017-11	93	658	48,450	
	LAKE, COUNTY OF	CW-2016-14	93	658	7,900	
	LAKE, COUNTY OF	CW-2017-14	93	658	12,750	
	MADERA, COUNTY OF	27B39	93	658	5,925	
	MADERA, COUNTY OF	10914-C-2017	93	658	27,625	
	MENDOCINO, COUNTY OF	C000113527	93	658	59,908	
	MENDOCINO, COUNTY OF	EW-2017-46	93	658	30,600	
	MERCED, COUNTY OF	38A59	93	658	-587	
	MERCED, COUNTY OF	30A79	93	658	-1,265	
	MERCED, COUNTY OF	CW-2017-19	93	658	35,234	
	MONO, COUNTY OF	C000113649	93	658	6,215	
	NAPA, COUNTY OF	CW-2016-23 7420	93	658	1,481	
	NEVADA, COUNTY OF	16-442	93	658	143	
	NEVADA, COUNTY OF	31B25	93	658	9,232	
	PLACER, COUNTY OF	CW-2017-25	93	658	25,770	
	PLUMAS, COUNTY OF	CW-2017-26	93	658	7,437	
	SACRAMENTO, COUNTY OF	7205000-17-314	93	658	280	
	SACRAMENTO, COUNTY OF	7205000-17-585	93	658	9,210	
	SACRAMENTO, COUNTY OF	7205000-17-589	93	658	3,849	
	SACRAMENTO, COUNTY OF	35A81	93	658	-5,824	
	SACRAMENTO, COUNTY OF	720500018314	93	658	108,158	
	SACRAMENTO, COUNTY OF	720500018585	93	658	136,471	
	SAN BENITO, COUNTY OF	CW-2016-27	93	658	593	
	SAN JOAQUIN COUNTY	32A81	93	658	3,950	
	SAN JOAQUIN COUNTY	CW-2017-28	93	658	32,288	
	SAN LUIS OBISPO, COUNTY OF	28884	93	658	-8,431	
	SANTA CRUZ, COUNTY OF	18W1893-02	93	658	15,275	
	SHASTA, COUNTY OF	GENT-2016-29	93	658	889	
	TEHAMA, COUNTY OF	33B42	93	658	4,250	
	TEHAMA, COUNTY OF	33B45	93	658	2,550	
	YUBA COUNTY	CW-2017-41	93	658	4,250	
	LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVICES	78135:2	93	658	9,813,490	5,353,966
	VENTURA COUNTY	37B33	93	658	18,006	
					53,069,225	37,158,886
DEPARTMENT OF HEALTH AND HUMAN SERVICES Total					53,069,225	37,158,886
DEPARTMENT OF HEALTH AND HUMAN SERVICES - TITLE IV-E FOSTER CARE PROGRAM CLUSTER Total					53,069,225	37,158,886
SNAP Cluster						
DEPARTMENT OF AGRICULTURE	Passthrough/Partial Passthrough					
	ALAMEDA COUNTY	86A54	10	551	18,704	
	ALAMEDA COUNTY	37B16	10	551	22,095	
	TULARE, COUNTY OF	30A87	10	551	-6,342	
					34,457	
	Passthrough/Partial Passthrough					
	ALPINE, COUNTY OF	EW-2016-01	10	561	1,304	
	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	15-92188	10	561	151,243	
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	73B01	10	561	1,732,920	
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	A17-0400	10	561	69,512	
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	15-1A-00006	10	561	872,973	117,862
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	88296	10	561	2,428,762	
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	88494	10	561	6,168,990	169,007
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	37B00	10	561	4,321,132	
	CONTRA COSTA HEALTH SERVICES	25B72	10	561	3,348	
	GLENN, COUNTY OF	EW-2016-09	10	561	9,480	
	MONO, COUNTY OF	EW-2017-21	10	561	19,125	
	SAN DIEGO COUNTY	87011	10	561	24,631	
					15,803,420	286,869
DEPARTMENT OF AGRICULTURE Total					15,837,877	286,869
SNAP Cluster Total					15,837,877	286,869
Medicaid Cluster						
DEPARTMENT OF HEALTH AND HUMAN SERVICES	Passthrough/Partial Passthrough					
	ALPINE, COUNTY OF	26A84	93	778	998	
	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	16-93578	93	778	2,307,696	1,214,295

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
DEPARTMENT OF HEALTH AND HUMAN SERVICES	COUNTY OF SONOMA	73B03	93	778	46,088	
	COUNTY OF SONOMA	80B30	93	778	34,698	
	TEHAMA, COUNTY OF	33B46	93	778	2,550	
	YUBA COUNTY	XX-2017-41	93	778	2,550	
DEPARTMENT OF HEALTH AND HUMAN SERVICES Total					2,394,580	1,214,295
Medicaid Cluster Total					2,394,580	1,214,295
Federal Transit Cluster						
DEPARTMENT OF TRANSPORT	Passthrough/Partial Passthrough					
	DAVIS, CITY OF	CA-2016-101-00	20	507	165,078	
	DAVIS, CITY OF	A170232	20	507	1,164	
DEPARTMENT OF TRANSPORT Total					166,242	
Federal Transit Cluster Total					166,242	
Fish and Wildlife Cluster						
DEPARTMENT OF INTERIOR	Passthrough/Partial Passthrough					
	MISSISSIPPI STATE UNIVERSITY	7518B2200001	15	611	6,173	
DEPARTMENT OF INTERIOR Total					6,173	
Fish and Wildlife Cluster Total					6,173	
Highway Planning and Construction Cluster						
DEPARTMENT OF TRANSPORT	Passthrough/Partial Passthrough					
	TEXAS A&M UNIVERSITY - COLLEGE STATION	009196	20	205	164,652	
					164,652	
	Direct					
	DEPARTMENT OF TRANSPORT	VARIOUS	20	205	118,083	
DEPARTMENT OF TRANSPORT Total					282,735	
Highway Planning and Construction Cluster Total					282,735	
Global Aids Program						
DEPARTMENT OF HEALTH AND HUMAN SERVICES	Direct					
	CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	067	5,040,679	705,828
	Passthrough/Partial Passthrough					
	AURUM INSTITUTE	A128676	93	067	385,969	
	COLUMBIA UNIVERSITY	A126704	93	067	12,551,325	11,631
	ELIZABETH GLASER PEDIATRIC AIDS FOUNDATION	B7980	93	067	10,150	
	MAKERERE UNIVERSITY	METS-A-01	93	067	574,903	
	POPULATION COUNCIL - NEW YORK	SH1619	93	067	79,166	12,960
	TB/HIV CARE ASSOCIATION	A128731	93	067	207,000	185,904
	CENTER FOR INFECTIOUS DISEASE RESEARCH IN ZAMBIA	NU2GGH001920-01-00-504	93	067	40,279	
DEPARTMENT OF HEALTH AND HUMAN SERVICES Total					18,889,471	916,324
Global Aids Program Total					18,889,471	916,324
HIV Related Training and Technical Assistance Program						
DEPARTMENT OF HEALTH AND HUMAN SERVICES	Direct					
	HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	145	5,399,867	920,886
	Passthrough/Partial Passthrough					
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	0295	93	145	220,931	
DEPARTMENT OF HEALTH AND HUMAN SERVICES Total					5,620,798	920,886
HIV Related Training and Technical Assistance Program Total					5,620,798	920,886
Economic Development Cluster						
DEPARTMENT OF COMMERCE	Direct					
	DEPARTMENT OF COMMERCE	VARIOUS	11	307	142,742	
DEPARTMENT OF COMMERCE Total					142,742	
Economic Development Cluster Total					142,742	
CCDF Cluster						
DEPARTMENT OF HEALTH AND HUMAN SERVICES	Passthrough/Partial Passthrough					
	CALIFORNIA CHILD DEVELOPMENT DIVISION	CN150183	93	575	183,407	
	CALIFORNIA DEPARTMENT OF EDUCATION	18855	93	575	108	
	CALIFORNIA DEPARTMENT OF EDUCATION	18801	93	575	25,765	
	CALIFORNIA DEPARTMENT OF EDUCATION	18886	93	575	-9,619	

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			Prefix	Extension	Federal Expenditures		
DEPARTMENT OF HEALTH AND HUMAN SERVICES	CALIFORNIA DEPARTMENT OF EDUCATION	18890	93	575	-12,049		
	CALIFORNIA DEPARTMENT OF EDUCATION	18893	93	575	25,560		
	CALIFORNIA DEPARTMENT OF EDUCATION	A18-0149-001	93	575	48,343		
	CALIFORNIA DEPARTMENT OF EDUCATION	CCTR-7164-CYC1	93	575	189,665		
						451,180	
		Passthrough/Partial Passthrough					
		CALIFORNIA CHILD DEVELOPMENT DIVISION	008396	93	596	-57	
		CALIFORNIA CHILD DEVELOPMENT DIVISION	008981	93	596	169,933	
		CALIFORNIA CHILD DEVELOPMENT DIVISION	008982	93	596	217,631	
		CALIFORNIA DEPARTMENT OF EDUCATION	18294	93	596	-148	
		CALIFORNIA DEPARTMENT OF EDUCATION	18858	93	596	108	
		CALIFORNIA DEPARTMENT OF EDUCATION	18887	93	596	-15,561	
		CALIFORNIA DEPARTMENT OF EDUCATION	CCSP-6527	93	596	95	
		CALIFORNIA DEPARTMENT OF EDUCATION	18861	93	596	82,744	
		CALIFORNIA DEPARTMENT OF EDUCATION	18863	93	596	29,417	
		CALIFORNIA DEPARTMENT OF EDUCATION	18889	93	596	-12,637	
		CALIFORNIA DEPARTMENT OF EDUCATION	A18-0148-001	93	596	226,736	
		CALIFORNIA DEPARTMENT OF EDUCATION	CSP-7360-CYC1	93	596	140,741	
						839,002	
	DEPARTMENT OF HEALTH AND HUMAN SERVICES Total					1,290,182	
	CCDF Cluster Total					1,290,182	
	Temporary Assistance for Needy Families (TANF) Cluster						
	DEPARTMENT OF HEALTH AND HUMAN SERVICES						
		Passthrough/Partial Passthrough					
		ALAMEDA COUNTY	201602383	93	558	213,271	
		ALPINE, COUNTY OF	EW-2017-01	93	558	12,112	
		AMADOR, COUNTY OF	EW-2017-02	93	558	15,291	
		BUTTE, COUNTY OF	EW-2016-03	93	558	-691	
		BUTTE, COUNTY OF	X22738	93	558	17,512	
		CITY OF LOS ANGELES ECONOMIC AND WORKFORCE DEVELOPMENT DEPARTMENT	C-130396	93	558	659,363	
		COLUSA, COUNTY OF	EW-2016-05	93	558	10,188	
		COLUSA, COUNTY OF	72B30	93	558	42,109	
	COLUSA, COUNTY OF	C17-176	93	558	9,562		
	CONTRA COSTA COUNTY	19-699-6	93	558	6,112		
	CONTRA COSTA COUNTY	196997	93	558	223,985		
	COUNTY OF MARIN	89A96	93	558	4,462		
	COUNTY OF MARIN	EW-2017-17	93	558	70,635		
	COUNTY OF SOLANO	WK-2016-32	93	558	1,185		
	COUNTY OF SOLANO	WK-2017-32	93	558	46,300		
	COUNTY OF SONOMA	26A94	93	558	-722		
	COUNTY OF SONOMA	73B05	93	558	51,767		
	DEL NORTE COUNTY	2016-047	93	558	1,185		
	EL DORADO, COUNTY OF	EW-2015-07	93	558	45,849		
	FRESNO COUNTY	EW-2016-08	93	558	-135		
	GLENN, COUNTY OF	EW-2017-09	93	558	33,428		
	HUMBOLDT COUNTY	EW-2016-10	93	558	7,545		
	HUMBOLDT COUNTY	201703661	93	558	55,485		
	KERN COUNTY	955-2016	93	558	-33,375		
	KERN COUNTY	3422017	93	558	94,350		
	KINGS, COUNTY OF	16-031.1	93	558	48,450		
	KINGS, COUNTY OF	16-031.2	93	558	40,800		
	LAKE, COUNTY OF	EW-2016-14	93	558	287		
	LAKE, COUNTY OF	EW-2017-14	93	558	63,298		
	MADERA, COUNTY OF	30A85	93	558	472		
	MADERA, COUNTY OF	EW-2017-16	93	558	100,725		
	MARIPOSA, COUNTY OF	16-313	93	558	7,110		
	MARIPOSA, COUNTY OF	32A84	93	558	-132		
	MARIPOSA, COUNTY OF	73B21	93	558	12,750		
	MERCED, COUNTY OF	38A58	93	558	-5,547		
	MERCED, COUNTY OF	30A78	93	558	-5,342		
	MERCED, COUNTY OF	30B79	93	558	91,826		
	MODOC, COUNTY OF	EW-2017-20	93	558	63,750		
	MONO, COUNTY OF	CW-2016-21	93	558	988		
	MONO, COUNTY OF	CW-2017-21	93	558	14,875		
	MONTEREY COUNTY	84A05	93	558	22,328		
	MONTEREY COUNTY	30A69	93	558	-1,489		
	MONTEREY COUNTY	A-13564	93	558	137,491		
	NAPA, COUNTY OF	EW-2016-23 2131	93	558	10,858		
	NAPA, COUNTY OF	GENT-2017-23	93	558	54,141		
	NEVADA, COUNTY OF	16-263	93	558	-8,210		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	NEVADA, COUNTY OF	EW-2017-24	93	558	40,545	
	PLACER, COUNTY OF	EW-2017-25	93	558	25,500	
	PLUMAS, COUNTY OF	EW-2017-26	93	558	7,650	
	RIVERSIDE COUNTY	80A20	93	558	1,106	
	SAN BENITO, COUNTY OF	GENT-2016-27	93	558	5,333	
	SAN BENITO, COUNTY OF	71B79	93	558	3,825	
	SAN BENITO, COUNTY OF	71B80	93	558	2,550	
	SAN BENITO, COUNTY OF	71B81	93	558	17,850	
	SAN BENITO, COUNTY OF	71B82	93	558	4,250	
	SAN DIEGO COUNTY	EW-2016-51	93	558	226,803	
	SAN JOAQUIN COUNTY	EW-2018-28	93	558	48,450	
	SAN JOAQUIN COUNTY	GENT-2017-28	93	558	20,400	
	SAN JOAQUIN COUNTY	XX-2017-28	93	558	19,450	
	SAN LUIS OBISPO, COUNTY OF	25010703	93	558	5,133	
	SAN LUIS OBISPO, COUNTY OF	CW-2017-52	93	558	2,900	
	SAN LUIS OBISPO, COUNTY OF	GENT-2017-52	93	558	24,583	
	SAN MATEO COUNTY	EW-2016-43	93	558	14,220	
	SAN MATEO COUNTY	GENT-2017-53	93	558	47,619	
	SANTA BARBARA, COUNTY OF	GENT-2016-54	93	558	-1,890	
	SANTA BARBARA, COUNTY OF	GENT-2017-54	93	558	35,700	
	SANTA CRUZ, COUNTY OF	EW-2016-56	93	558	-7,338	
	SANTA CRUZ, COUNTY OF	18W1893-01	93	558	128,195	
	SANTA CRUZ, COUNTY OF	32A86	93	558	16,384	
	SHASTA, COUNTY OF	CW-2017-29	93	558	8,546	
	SHASTA, COUNTY OF	GENT-2017-29	93	558	59,548	
	SIERRA, COUNTY OF	37A74	93	558	-1,333	
	SIERRA, COUNTY OF	71B88	93	558	16,575	
	SISKIYOU, COUNTY OF	EW-2016-31	93	558	2,648	
	SISKIYOU, COUNTY OF	26A93	93	558	-673	
	SISKIYOU, COUNTY OF	CW-2017-31	93	558	6,375	
	SISKIYOU, COUNTY OF	EW-2017-31	93	558	35,700	
	STANISLAUS, COUNTY OF	27B38	93	558	16,425	
	STANISLAUS, COUNTY OF	37A68	93	558	31,995	
	STANISLAUS, COUNTY OF	77A68	93	558	-2,962	
	STANISLAUS, COUNTY OF	EW-2017-34	93	558	40,800	
	STANISLAUS, COUNTY OF	GENT-2017-34	93	558	47,175	
	SUTTER COUNTY	17-158	93	558	45,225	
	TEHAMA, COUNTY OF	26A59	93	558	23	
	TEHAMA, COUNTY OF	33B43	93	558	12,750	
	TRINITY, COUNTY OF	EW201737	93	558	19,125	
	TULARE, COUNTY OF	EW-2016-38	93	558	-1,683	
	TULARE, COUNTY OF	71B83	93	558	6,800	
	TULARE, COUNTY OF	EW-2017-38	93	558	12,240	
	TUOLUMNE, COUNTY OF	EW-2016-39	93	558	1,777	
	TUOLUMNE, COUNTY OF	74B24	93	558	11,475	
	TUOLUMNE, COUNTY OF	CW-2017-39	93	558	6,375	
	YOLO COUNTY	16-178	93	558	483	
	YOLO COUNTY	EW2017246	93	558	30,600	
	YUBA COUNTY	EW-2016-41	93	558	1,710	
	YUBA COUNTY	30A61	93	558	-1,649	
	YUBA COUNTY	EW-2017-41	93	558	33,150	
	VENTURA COUNTY	22242	93	558	-1,684	
	COUNTY OF SAN BERNARDINO	78A44	93	558	4,740	
	IMPERIAL COUNTY	83B94	93	558	-7,650	
					3,360,046	
DEPARTMENT OF HEALTH AND HUMAN SERVICES Total						3,360,046
Temporary Assistance for Needy Families (TANF) Cluster Total						3,360,046
WIOA Cluster						
DEPARTMENT OF LABOR						
	Passthrough/Partial Passthrough					
	CITY OF LOS ANGELES	20700	17	258	-16,121	
					-16,121	
	Passthrough/Partial Passthrough					
	CITY OF LOS ANGELES	20719	17	259	-7,741	
	CITY OF LOS ANGELES	20720	17	259	3,525	
	CITY OF LOS ANGELES	T5954	17	259	179,391	
	CITY OF LOS ANGELES	20606	17	259	-77	
	CITY OF LOS ANGELES	T6244	17	259	731,141	
	YOUTH POLICY INSTITUTE INC.	77548	17	259	71,928	
					978,167	

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DEPARTMENT OF LABOR Total						962,046	
WIOA Cluster Total						962,046	
Highway Safety Cluster							
DEPARTMENT OF TRANSPORT							
	Passthrough/Partial Passthrough						
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PS1721	20	600		832,173	484,673
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PS1724	20	600		245,106	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PT17129	20	600		59,348	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	84689	20	600		-1,994	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PT18150	20	600		622,752	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PT18151	20	600		495,350	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PS18035	20	600		192,139	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	MC18004	20	600		72,012	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PS18034	20	600		1,019,361	257,120
						3,536,247	741,793
	Passthrough/Partial Passthrough						
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	84497	20	610		332	
	CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION	53-6073F15	20	610		9,661	
						9,993	
	Passthrough/Partial Passthrough						
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	D11724-CYC1	20	616		57,626	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR1709	20	616		14,765	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR1710	20	616		69,013	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR1711	20	616		38,430	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR1712	20	616		55,419	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR1713	20	616		88,356	72,126
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	84691	20	616		-126	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	D118030-CYC1	20	616		134,268	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR18011	20	616		101,302	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR18009	20	616		172,123	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR18010	20	616		31,101	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR18012	20	616		62,744	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR18013	20	616		62,190	
	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR18014	20	616		87,848	16,574
						975,059	88,700
DEPARTMENT OF TRANSPORT Total						4,521,299	830,493
Highway Safety Cluster Total						4,521,299	830,493
TRIO Cluster							
DEPARTMENT OF EDUCATION							
	Direct						
	DEPARTMENT OF EDUCATION	VARIOUS	84	042		1,907,991	
						1,907,991	
	Direct						
	DEPARTMENT OF EDUCATION	VARIOUS	84	044		2,892,275	
						2,892,275	
	Direct						
	DEPARTMENT OF EDUCATION	VARIOUS	84	047		3,535,094	
	Passthrough/Partial Passthrough						
	STATE CENTER COMMUNITY COLLEGE DISTRICT	28B06	84	047		529	
	STATE CENTER COMMUNITY COLLEGE DISTRICT	81B91	84	047		3,781	
						3,539,404	
	Direct						
	DEPARTMENT OF EDUCATION	VARIOUS	84	217		1,126,614	
						1,126,614	
	Direct						
	DEPARTMENT OF EDUCATION	VARIOUS	84	RD		938,499	
						938,499	
DEPARTMENT OF EDUCATION Total						10,404,783	
TRIO Cluster Total						10,404,783	
Aging Cluster							
DEPARTMENT OF HEALTH AND HUMAN SERVICES							
	Passthrough/Partial Passthrough						
	COUNTY OF SONOMA	73B04	93	044		46,310	
						46,310	
DEPARTMENT OF HEALTH AND HUMAN SERVICES Total						46,310	

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Aging Cluster Total						46,310	
Health Center Program Cluster							
DEPARTMENT OF HEALTH AND HUMAN SERVICES							
	Direct						
	HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	224		125,328	
	Passthrough/Partial Passthrough						
	NORTHEAST VALLEY HEALTH CORPORATION	20141037	93	224		364,056	
						489,384	
	Direct						
	HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	527		1,637,710	
						1,637,710	
						2,127,094	
DEPARTMENT OF HEALTH AND HUMAN SERVICES Total							
Health Center Program Cluster Total							
2,127,094							
Maternal, Infant, and Early Childhood Home Visiting Cluster							
DEPARTMENT OF HEALTH AND HUMAN SERVICES							
	Passthrough/Partial Passthrough						
	TEXAS HEALTH AND HUMAN SERVICES COMMISSION	529-12-0138-00001F:6	93	505		56,046	
						56,046	
						56,046	
DEPARTMENT OF HEALTH AND HUMAN SERVICES Total							
Maternal, Infant, and Early Childhood Home Visiting Cluster Total							
56,046							
Other Programs							
DEPARTMENT OF AGRICULTURE							
	Direct						
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	001		329,478	
						329,478	
	Direct						
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	025		1,266,212	
						1,266,212	
	Passthrough/Partial Passthrough						
	CALAVERAS UNIFIED SCHOOL DISTRICT	21B60	10	170		17,246	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	30926	10	170		-1,419	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB15029	10	170		90,023	
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	SCB16031	10	170		20,313	-13,828
	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	72B04	10	170		21,457	
						147,620	-13,828
	Direct						
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	202		2,063	
						2,063	
	Passthrough/Partial Passthrough						
	UTAH STATE UNIVERSITY	73A95	10	215		2,432	
	UTAH STATE UNIVERSITY	200592-439	10	215		6,023	
	UTAH STATE UNIVERSITY	200592393	10	215		69,922	
	UTAH STATE UNIVERSITY	30B25	10	215		22,986	
	UTAH STATE UNIVERSITY	75B38	10	215		1,783	
						103,146	
	Direct						
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	223		43,619	
						43,619	
	Passthrough/Partial Passthrough						
	FOOD BANK COALITION OF SAN LUIS OBISPO COUNTY	27B94	10	225		6,380	
						6,380	
	Direct						
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	304		220,640	
						220,640	
	Direct						
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	309		50,189	
						50,189	
	Direct						
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	310		87,436	
	Passthrough/Partial Passthrough						
	UNIVERSITY OF MISSOURI	C000501441	10	310		80,826	32,415

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
DEPARTMENT OF AGRICULTURE					168,262	32,415
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	311	3,639	
					3,639	
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	328	35,884	1,941
					35,884	1,941
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	329	276,968	
					276,968	
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	406	25,936	
					25,936	
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	460	33,636	
					33,636	
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF EDUCATION	003376	10	558	21,494	
	CALIFORNIA DEPARTMENT OF EDUCATION	301466-1A-CYC35	10	558	14,009	
	CALIFORNIA DEPARTMENT OF EDUCATION	301466-1A-CYC36	10	558	30,232	
	CALIFORNIA DEPARTMENT OF EDUCATION	80077	10	558	82,744	
					148,479	
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF EDUCATION	CN160098	10	560	-16,828	
					-16,828	
	Passthrough/Partial Passthrough					
	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	TASC AGREEMENT 2016-13	10	604	33,000	
					33,000	
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	612	3,355	
					3,355	
	Passthrough/Partial Passthrough					
	WATERSHED RESEARCH AND TRAINING CENTER	71A82	10	664	85,557	
					85,557	
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION	23B20	10	675	185,115	
					185,115	
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	680	332,475	
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION	31B98	10	680	34,006	
					366,481	
	Passthrough/Partial Passthrough					
	NATIONAL FOREST FOUNDATION	88953	10	682	-3,665	
	NATIONAL FOREST FOUNDATION	ZJ-504	10	682	39,857	
					36,192	
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	902	12,512	
					12,512	
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	932	38,132	34,917
	Passthrough/Partial Passthrough					
	GOLD RIDGE RESOURCE CONSERVATION DISTRICT	29B38	10	932	24,762	
					62,894	34,917
	Direct					

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DEPARTMENT OF AGRICULTURE	DEPARTMENT OF AGRICULTURE	VARIOUS	10	960	205,461	
					205,461	
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	961	17,715	
					17,715	
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	962	117,708	
					117,708	
	Direct					
	DEPARTMENT OF AGRICULTURE	VARIOUS	10	UNKNOWN	214,036	1,600
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	18353	10	UNKNOWN	-1,342	
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	17-10666	10	UNKNOWN	77,521	
	COUNTERPART INTERNATIONAL, INC	A18-1584	10	UNKNOWN	72,210	
	CRANBERRY MARKETING COMMITTEE	87A68	10	UNKNOWN	4	
	STANISLAUS, COUNTY OF	27787	10	UNKNOWN	-1,149	
	ORGANIC FARMING RESEARCH FOUNDATION	17-0275-026-SC	10	UNKNOWN	15,847	
					377,127	1,600
DEPARTMENT OF AGRICULTURE Total					4,348,440	57,046
DEPARTMENT OF COMMERCE						
	Direct					
	DEPARTMENT OF COMMERCE	VARIOUS	11	008	106,564	599
					106,564	599
	Passthrough/Partial Passthrough					
	NATIONAL MARINE SANCTUARY FOUNDATION	15-11-B-00042	11	011	-1,500	
	NATIONAL MARINE SANCTUARY FOUNDATION	17-05-B-124	11	011	18,633	
					17,133	
	Direct					
	DEPARTMENT OF COMMERCE	VARIOUS	11	020	97,294	
					97,294	
	Passthrough/Partial Passthrough					
	BIOACCEL	ED15HDO0200008-CYC1	11	302	37,000	
					37,000	
	Passthrough/Partial Passthrough					
	INDIANA UNIVERSITY	SUB IN-4336228-UCSD (ED17HDC	11	312	64,406	
					64,406	
	Direct					
	DEPARTMENT OF COMMERCE	VARIOUS	11	429	-354	
					-354	
DEPARTMENT OF COMMERCE Total					322,043	599
DEPARTMENT OF DEFENSE						
	Direct					
	DEPARTMENT OF NAVY	VARIOUS	12	300	57,127	
	Passthrough/Partial Passthrough					
	COLE ENGINEERING SERVICES, INC.	0348-16-D-0002-001	12	300	162,248	
					219,375	
	Passthrough/Partial Passthrough					
	VYSNOVA PARTNERS, INC.	SC-2017-SABER-013-002	12	340	101,642	
	VYSNOVA PARTNERS, INC.	SC-3032 SEA-05102017-UCSF	12	340	109,648	
					211,290	
	Direct					
	DEPARTMENT OF ARMY	VARIOUS	12	400	19,732	
					19,732	
	Direct					
	DEPARTMENT OF ARMY	VARIOUS	12	420	17,578	
	Passthrough/Partial Passthrough					
	MASSACHUSETTS EYE AND EAR INFIRMARY	38037	12	420	6,930	
					24,508	
	Passthrough/Partial Passthrough					

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DEPARTMENT OF DEFENSE	INSTITUTE OF INTERNATIONAL EDUCATION	0054-UCLA-10-SSR-280-PO3	12	550	75,251	
	INSTITUTE OF INTERNATIONAL EDUCATION	0054-UCLA-10-TT-280-PO4	12	550	34,991	
					110,242	
	Direct					
	DEPARTMENT OF ARMY	VARIOUS	12	630	858	
					858	
	Passthrough/Partial Passthrough					
	RICE UNIVERSITY	R18641	12	800	-2	
	UNIVERSITY OF ILLINOIS	96020	12	800	-963	
					-965	
	Direct					
	SEPARATE AGENCIES	VARIOUS	12	900	244,919	
					244,919	
	Passthrough/Partial Passthrough					
	STANFORD UNIVERSITY	61395568124634	12	910	117,537	
					117,537	
	Direct					
	DEPARTMENT OF NAVY	VARIOUS	12	UNKNOWN	10,414,327	769,558
	DEPARTMENT OF ARMY	VARIOUS	12	UNKNOWN	31,179	
	Passthrough/Partial Passthrough					
	AMERICAN BURN ASSOCIATION	201015946	12	UNKNOWN	37,422	
	AMERICAN BURN ASSOCIATION	201120770	12	UNKNOWN	71,878	
	AMERICAN BURN ASSOCIATION	201121883	12	UNKNOWN	2,938	
	LOCKHEED MARTIN CORPORATION	4102790434	12	UNKNOWN	652,402	
	RADIABEAM TECHNOLOGIES, LLC	75A31	12	UNKNOWN	11	
					11,210,157	769,558
DEPARTMENT OF DEFENSE Total					12,157,653	769,558
HOUSING & URBAN DEVELOPMENT						
	Passthrough/Partial Passthrough					
	CITY AND COUNTY OF SAN FRANCISCO	A124764	14	267	188,603	
					188,603	
HOUSING & URBAN DEVELOPMENT Total					188,603	
DEPARTMENT OF INTERIOR						
	Direct					
	DEPARTMENT OF INTERIOR	VARIOUS	15	631	1,039	
	Passthrough/Partial Passthrough					
	CHUCK & JUDY WHEATLEY	25993	15	631	99	
					1,138	
	Direct					
	DEPARTMENT OF INTERIOR	VARIOUS	15	656	1	
					1	
	Passthrough/Partial Passthrough					
	COASTAL ECOSYSTEMS INSTITUTE OF NORTHERN CALIFORNIA	F15AC01065	15	669	10,188	
					10,188	
	Direct					
	DEPARTMENT OF INTERIOR	VARIOUS	15	676	10,000	
					10,000	
	Direct					
	DEPARTMENT OF INTERIOR	VARIOUS	15	805	7,316	7,316
					7,316	7,316
	Direct					
	DEPARTMENT OF INTERIOR	VARIOUS	15	808	36,991	
					36,991	
	Direct					
	DEPARTMENT OF INTERIOR	VARIOUS	15	933	258,630	
					258,630	
	Direct					
	DEPARTMENT OF INTERIOR	VARIOUS	15	945	17,716	
	Passthrough/Partial Passthrough					

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DEPARTMENT OF INTERIOR	COOPERATIVE ECOSYSTEM STUDIES UNITS	P16AC01594	15	945	151,892		
		P16AC01770	15	945	76,364		
					245,972		
	Passthrough/Partial Passthrough	NATIONAL WRITING PROJECT	92-CA03-NPS2017	15	954	3,500	3,500
DEPARTMENT OF INTERIOR	DEPARTMENT OF INTERIOR	VARIOUS	15	UNKNOWN	5,292,865		
					5,292,865		
DEPARTMENT OF INTERIOR Total					5,866,601	7,316	
DEPARTMENT OF JUSTICE	DEPARTMENT OF JUSTICE	VARIOUS	16	525	182,209		
					182,209		
	DEPARTMENT OF JUSTICE	VARIOUS	16	526	20,975		
					20,975		
	DEPARTMENT OF JUSTICE	VARIOUS	16	562	21,223		
					21,223		
	CALIFORNIA EMERGENCY MANAGEMENT AGENCY	CALIFORNIA EMERGENCY MANAGEMENT AGENCY	008613	16	575	148,703	63,314
			RC16 32 1141	16	575	95,195	
			XE16 01 1792	16	575	-17,480	
			000-95000	16	575	72,025	
			18250	16	575	115,704	
			2016-VA-GX-0057	16	575	200,036	
			XY16011141	16	575	138,810	63,314
				752,993			
NATIONAL COUNCIL OF JUVENILE AND FAMILY COURT JUDGES	NATIONAL COUNCIL OF JUVENILE AND FAMILY COURT JUDGES	37015-SR-1:1	16	585	-439		
					-439		
DEPARTMENT OF JUSTICE	DEPARTMENT OF JUSTICE	VARIOUS	16	734	6,866		
					6,866		
DEPARTMENT OF JUSTICE Total					983,827	63,314	
DEPARTMENT OF LABOR	CITY OF LOS ANGELES	20702	17	267	-24,218		
		20703	17	267	3,397		
		77015	17	267	7,386		
		77018	17	267	-15,165		
						-28,600	
	CITY OF LOS ANGELES ECONOMIC AND WORKFORCE DEVELOPMENT DEPARTMENT	CITY OF LOS ANGELES ECONOMIC AND WORKFORCE DEVELOPMENT DEPARTMENT	T5897	17	283	29,862	
						29,862	
	DEPARTMENT OF LABOR	DEPARTMENT OF LABOR	VARIOUS	17	502	240,271	
	COMMUNITY PARTNERS	COMMUNITY PARTNERS	80655	17	502	21,684	
261,955							
DEPARTMENT OF LABOR Total					263,217		
DEPARTMENT OF STATE	INTERNATIONAL RESEARCH AND EXCHANGES BOARD, INC.	PARTNERS OF THE AMERICAS, INC.	FY18-YALI-PM-UCD-03	19	009	40,460	
						37,206	
						77,666	
	INSTITUTE OF INTERNATIONAL EDUCATION	INSTITUTE OF INTERNATIONAL EDUCATION	UCDAVIS20170401	19	010	192,792	
252,080							
					444,872		

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Cluster Programs and Federal Agencies	Federal Direct / Pass-Through and Partial Pass-Through	Agency/PassThrough Identifier or Other Identifier	Federal CFDA #		FY 2018	
			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
DEPARTMENT OF STATE	Passthrough/Partial Passthrough UNITED STATES-INDIA EDUCATIONAL FOUNDATION	USIEF/OSI/2014/03	19	014	12,601 12,601	-18,105 -18,105
	Direct DEPARTMENT OF STATE	VARIOUS	19	021	16,633	
	Passthrough/Partial Passthrough INTERNATIONAL RESEARCH AND EXCHANGES BOARD, INC.	77496	19	021	6,579 23,212	
	Direct DEPARTMENT OF STATE	VARIOUS	19	345	400,772 400,772	42,809 42,809
	Passthrough/Partial Passthrough INSTITUTE OF INTERNATIONAL EDUCATION	UCLA-10-01-2016	19	401	-407	
	INSTITUTE OF INTERNATIONAL EDUCATION	81610	19	401	34,094 33,687	
	Passthrough/Partial Passthrough GLOBAL TIES U.S.	CPG-FY17-163	19	402	60,306 60,306	
	Direct DEPARTMENT OF STATE	VARIOUS	19	UNKNOWN	159,472	-45,117
	Passthrough/Partial Passthrough INSTITUTE OF INTERNATIONAL EDUCATION	A18-0975-001	19	UNKNOWN	4,108	
	INTERNATIONAL RESEARCH AND EXCHANGES BOARD, INC.	FY17YALIPMUCD02	19	UNKNOWN	75,956 239,536	-45,117
DEPARTMENT OF STATE Total					1,292,652	-20,413
DEPARTMENT OF TRANSPORT	Direct FEDERAL AVIATION ADMINISTRATION (FAA) DEPARTMENT OF TRANSPORT	VARIOUS VARIOUS	20 20	108 108	115,053 7,680 122,733	
	Direct DEPARTMENT OF TRANSPORT	VARIOUS	20	215	77,457 77,457	
	Direct DEPARTMENT OF TRANSPORT	VARIOUS	20	701	51,750 51,750	
	Direct DEPARTMENT OF TRANSPORT	VARIOUS	20	UNKNOWN	15,000	
	Passthrough/Partial Passthrough APPLIED PAVEMENT TECHNOLOGY, INC.	TOPR215001RR02UCD	20	UNKNOWN	21,313	
	APPLIED PAVEMENT TECHNOLOGY, INC.	TOPR315001RR03UCD	20	UNKNOWN	12,289	
	APPLIED PAVEMENT TECHNOLOGY, INC.	TOPR 5_15-001-RR05-UCD	20	UNKNOWN	4,772	
	DAVIS, CITY OF	201300611	20	UNKNOWN	116,555	
	DAVIS, CITY OF	201502866	20	UNKNOWN	46,804	
	DAVIS, CITY OF	33742	20	UNKNOWN	-59,141 157,592	
DEPARTMENT OF TRANSPORT Total					409,532	
LIBRARY OF CONGRESS	Direct LIBRARY OF CONGRESS	GA10C0005	42	UNKNOWN	184,852 184,852	
LIBRARY OF CONGRESS Total					184,852	
NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Direct NATIONAL AERONAUTICS & SPACE ADMINISTRATION	VARIOUS	43	001	982,626	
	Passthrough/Partial Passthrough ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY	HST-GO-13665.004-A	43	001	46	
	UNIVERSITY OF WASHINGTON	63391	43	001	55 982,727	
	Passthrough/Partial Passthrough SCIENCE MUSEUM OF MINNESOTA	NNX16AC67A	43	002	234,175	

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			Prefix	Extension	Federal Expenditures	
NATIONAL AERONAUTICS & SPACE ADMINISTRATION					234,175	
	Passthrough/Partial Passthrough JET PROPULSION LABORATORY	1535553	43	003	3,714	3,714
	Direct NATIONAL AERONAUTICS & SPACE ADMINISTRATION	VARIOUS	43	008	108,954	108,954
	Direct NATIONAL AERONAUTICS & SPACE ADMINISTRATION	VARIOUS	43	012	239,371	
	Passthrough/Partial Passthrough JET PROPULSION LABORATORY	1553641	43	012	4,307	243,678
	Direct NATIONAL AERONAUTICS & SPACE ADMINISTRATION	VARIOUS	43	UNKNOWN	4,068	
	Passthrough/Partial Passthrough JET PROPULSION LABORATORY	1546204	43	UNKNOWN	117	
	JET PROPULSION LABORATORY	86037	43	UNKNOWN	163	
	JET PROPULSION LABORATORY	1587974	43	UNKNOWN	28,995	
	JET PROPULSION LABORATORY	1543102	43	UNKNOWN	2,460	
	JET PROPULSION LABORATORY	1543422	43	UNKNOWN	2,396	
					38,199	
NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total						1,611,447
NATIONAL FOUNDATION ARTS & HUMANITIES						
	Direct NATIONAL FOUNDATION ARTS & HUMANITIES	VARIOUS	45	024	214,485	
	Passthrough/Partial Passthrough CALIFORNIA ARTS COUNCIL	EXP-16-00045	45	024	14,400	228,885
	Direct NATIONAL FOUNDATION ARTS & HUMANITIES	VARIOUS	45	130	27,787	27,787
	Direct NATIONAL FOUNDATION ARTS & HUMANITIES	VARIOUS	45	149	475,765	475,765
	Direct NATIONAL FOUNDATION ARTS & HUMANITIES	VARIOUS	45	163	126,355	
	Passthrough/Partial Passthrough CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SA0000575	45	163	4,170	130,525
	Direct NATIONAL FOUNDATION ARTS & HUMANITIES	VARIOUS	45	164	181,164	181,164
	Direct NATIONAL FOUNDATION ARTS & HUMANITIES	VARIOUS	45	169	151,073	151,073
	Direct INSTITUTE OF MUSEUM AND LIBRARY SERVICES	VARIOUS	45	301	35,208	35,208
	Direct INSTITUTE OF MUSEUM AND LIBRARY SERVICES	VARIOUS	45	312	119,554	119,554
	Direct INSTITUTE OF MUSEUM AND LIBRARY SERVICES	VARIOUS	45	313	130,671	130,671
	Direct NATIONAL FOUNDATION ARTS & HUMANITIES	VARIOUS	45	UNKNOWN	80	80
NATIONAL FOUNDATION ARTS & HUMANITIES Total						1,480,712

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
SMALL BUSINESS ADMINISTRATION (SBA)	Direct SMALL BUSINESS ADMINISTRATION (SBA)	VARIOUS	59	007	19 19	
	Direct SMALL BUSINESS ADMINISTRATION (SBA)	VARIOUS	59	037	1,483,485	936,728
SMALL BUSINESS ADMINISTRATION (SBA) Total					1,483,485	936,728
DEPARTMENT OF VETERANS AFFAIRS	Direct DEPARTMENT OF VETERANS AFFAIRS	VARIOUS	64	UNKNOWN	2,131,720	
DEPARTMENT OF VETERANS AFFAIRS Total					2,131,720	
ENVIRONMENTAL PROTECTION AGENCY	Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION	15-C0052	66	306	252,211 252,211	
	Direct ENVIRONMENTAL PROTECTION AGENCY	VARIOUS	66	514	18,532 18,532	
	Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	16-10004	66	707	240,327 240,327	
	Direct ENVIRONMENTAL PROTECTION AGENCY	VARIOUS	66	716	704,928	162,948
	Passthrough/Partial Passthrough EXTENSION FOUNDATION	75B48	66	716	8,082 713,010	162,948
	Direct ENVIRONMENTAL PROTECTION AGENCY	VARIOUS	66	UNKNOWN	2,055,220	1,179,168
	Passthrough/Partial Passthrough ABT ASSOCIATES INC.	B8535	66	UNKNOWN	16	
	STATE OF NEVADA	39B38	66	UNKNOWN	74,095	
	TAHOE REGIONAL PLANNING AGENCY (TRPA)	17C00051	66	UNKNOWN	32,905	
ENVIRONMENTAL PROTECTION AGENCY Total					2,162,236	1,179,168
NUCLEAR REGULATORY COMMISSION	Direct NUCLEAR REGULATORY COMMISSION	VARIOUS	77	008	411,530 411,530	
NUCLEAR REGULATORY COMMISSION Total					411,530	
DEPARTMENT OF ENERGY	Direct DEPARTMENT OF ENERGY	VARIOUS	81	049	276,189	
	Passthrough/Partial Passthrough COLORADO STATE UNIVERSITY	DESC0017975	81	049	22,979	
	SANDIA NATIONAL LABORATORIES	79107	81	049	204,255 503,423	
	Passthrough/Partial Passthrough KRELL INSTITUTE	040010	81	112	8,776	
	KRELL INSTITUTE	040009	81	112	4,000 12,776	
	Direct DEPARTMENT OF ENERGY	VARIOUS	81	121	358,128 358,128	
	Direct DEPARTMENT OF ENERGY	VARIOUS	81	136	195,632 195,632	
	Direct DEPARTMENT OF ENERGY	VARIOUS	81	UNKNOWN	3,226,420	
	Passthrough/Partial Passthrough LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B620069	81	UNKNOWN	79,646	

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
DEPARTMENT OF ENERGY	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	86175	81	UNKNOWN	7,076	
DEPARTMENT OF ENERGY Total					3,298,990	
DEPARTMENT OF EDUCATION	Direct DEPARTMENT OF EDUCATION	VARIOUS	84	007	144,849	
					144,849	
	Direct DEPARTMENT OF EDUCATION	VARIOUS	84	015	2,342,161	49,000
	Passthrough/Partial Passthrough UNIVERSITY OF SOUTHERN CALIFORNIA	55655151:3	84	015	195,586	
	UNIVERSITY OF SOUTHERN CALIFORNIA	55655350:3	84	015	142,329	
					2,680,076	49,000
	Direct DEPARTMENT OF EDUCATION	VARIOUS	84	021	81,399	
					81,399	
	Direct DEPARTMENT OF EDUCATION	VARIOUS	84	022	692,171	
					692,171	
	Direct DEPARTMENT OF EDUCATION	VARIOUS	84	031	2,117,829	
	Passthrough/Partial Passthrough CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS FOUNDATION	F16-439	84	031	121,399	
	SAN JOSE CITY COLLEGE	A16-0099-002	84	031	266,874	
	SANTA MONICA COLLEGE	A121646NC	84	031	4,129	
	SANTA MONICA COLLEGE	A1721255F2	84	031	275,359	
					2,785,590	
	Direct DEPARTMENT OF EDUCATION	VARIOUS	84	063	34,473	
					34,473	
	Passthrough/Partial Passthrough UNIVERSITY OF MINNESOTA	A15-0201-002	84	116	61,015	
					61,015	
	Passthrough/Partial Passthrough SAN MATEO COUNTY	59005	84	120	7,768	
					7,768	
	Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF REHABILITATION	29891	84	126	591,938	
					591,938	
	Passthrough/Partial Passthrough AMERICAN EDUCATION SOLUTIONS, INC.	AES2017-01	84	165	172,823	
					172,823	
	Passthrough/Partial Passthrough OAKLAND UNIFIED SCHOOL DISTRICT	P1509363	84	184	45,006	
					45,006	
	Direct DEPARTMENT OF EDUCATION	VARIOUS	84	200	3,742,733	
					3,742,733	
	Passthrough/Partial Passthrough MISSION ECONOMIC DEVELOPMENT AGENCY	A121767	84	215	17,922	
	MISSION ECONOMIC DEVELOPMENT AGENCY	A121828	84	215	28,527	
					46,449	
	Direct DEPARTMENT OF EDUCATION	VARIOUS	84	229	225,034	
					225,034	
	Passthrough/Partial Passthrough WESTED	S12-173:5	84	283	315,898	

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DEPARTMENT OF EDUCATION					315,898	
	Passthrough/Partial Passthrough					
	LOS ANGELES UNIFIED SCHOOL DISTRICT	77131	84	287	380,172	14,857
	LOS ANGELES UNIFIED SCHOOL DISTRICT	4400002808	84	287	1,276,824	
					1,656,996	14,857
	Passthrough/Partial Passthrough					
	EDUCATION DEVELOPMENT CENTER, INC.	11972:1	84	295	268,961	
	PUBLIC BROADCASTING SERVICE	20154615:2	84	295	378,732	
					647,693	
	Direct					
	DEPARTMENT OF EDUCATION	VARIOUS	84	305	261,636	
					261,636	
	Direct					
	DEPARTMENT OF EDUCATION	VARIOUS	84	324	39,733	22,637
	Passthrough/Partial Passthrough					
	AMERICAN EDUCATION SOLUTIONS, INC.	AES2014-01	84	324	191,154	
					230,887	22,637
	Direct					
	DEPARTMENT OF EDUCATION	VARIOUS	84	334	5,871,298	370,075
	Passthrough/Partial Passthrough					
	LOS ANGELES UNIFIED SCHOOL DISTRICT	1200264:4	84	334	114,059	
					5,985,357	370,075
	Direct					
	DEPARTMENT OF EDUCATION	VARIOUS	84	335	522,231	
					522,231	
	Direct					
	DEPARTMENT OF EDUCATION	VARIOUS	84	336	2,189,798	397,264
	Passthrough/Partial Passthrough					
	CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS FOUNDATION	F16-438	84	336	191,701	
					2,381,499	397,264
	Direct					
	DEPARTMENT OF EDUCATION	VARIOUS	84	365	1,663,466	142,509
	Passthrough/Partial Passthrough					
	STANFORD UNIVERSITY	60445465101341C	84	365	26,568	
					1,690,034	142,509
	Passthrough/Partial Passthrough					
	YOLO COUNTY OFFICE OF EDUCATION	201402994	84	366	10	
					10	
	Direct					
	DEPARTMENT OF EDUCATION	VARIOUS	84	367	122,877	
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF EDUCATION	18358	84	367	-7,719	
	CALIFORNIA DEPARTMENT OF EDUCATION	NCLB13-CWP-UCM	84	367	120,752	
	CALIFORNIA DEPARTMENT OF EDUCATION	16-15196-3004-00	84	367	225,894	
	CALIFORNIA DEPARTMENT OF EDUCATION	18616	84	367	1,067,976	1,014,169
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB13-CHSSP-UCB	84	367	3,024	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB13-CMP-UCB	84	367	607	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB13-CMP-UCD	84	367	508	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB13-CRLP-UCB	84	367	4,678	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB13-CWP-UCB	84	367	19,935	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	SUB NCLB13-CRLP-UCSD(CN1600)	84	367	-4	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	SUB NCLB13-CSP-UCSD(CN16008)	84	367	285	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	009147	84	367	23,398	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	009219	84	367	30,079	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	75B75	84	367	124,628	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	76B00	84	367	40,373	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	84681	84	367	1,341	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	A00-1301-003	84	367	-811	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB14-CMP-UCI-CYC1	84	367	20,635	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB14-CRLP-UCB	84	367	30,207	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	NCLB14-CRLP-UCI-CYC1	84	367	39,141	

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DEPARTMENT OF EDUCATION	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	S367A170005	84	367	20,635	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	SUB CN170224(NCLB14-CSP-UCSE	84	367	41,270	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	SUB NCLB14-CRLP-UCSD (CN1702	84	367	31,647	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	SUB NCLB14-CWP-UCSD (CN1702	84	367	32,557	
	CALIFORNIA POSTSECONDARY EDUCATION COMMISSION	23B58	84	367	2,532,841	1,357,131
	CALIFORNIA STATE UNIVERSITY SACRAMENTO/UNIVERSITY ENTERPRISES, INC.	528781D	84	367	44,520	
	NATIONAL WRITING PROJECT	008930	84	367	10,342	
	NATIONAL WRITING PROJECT	01-CA18-SEED-2016	84	367	8,888	
	NATIONAL WRITING PROJECT	01-CA18-SEED2017-CRWPAI	84	367	12,994	
	NATIONAL WRITING PROJECT	92-CA05-SEED2016	84	367	46	
	NATIONAL WRITING PROJECT	92-CA05-SEED2016-ILI	84	367	420	
	NATIONAL WRITING PROJECT	92-CA09-SEED2016	84	367	2,585	
	NATIONAL WRITING PROJECT	92-CA09-SEED2016-ILI	84	367	7,622	
	NATIONAL WRITING PROJECT	92-CA09-SEED2017-CRWPPD	84	367	9,491	
	NATIONAL WRITING PROJECT	A16-0524-001	84	367	-1,401	
	NATIONAL WRITING PROJECT	A17-0831-001	84	367	14,400	
	NATIONAL WRITING PROJECT	92-CA03-SEED2017-CRWPAI	84	367	14,442	
	NATIONAL WRITING PROJECT	92-CA03-SEED2017-ILI	84	367	5,464	
	NATIONAL WRITING PROJECT	92-CA03-SEED2018-C3WPPD	84	367	2,557	
	OFFICE OF POSTSECONDARY EDUCATION	NCLB13-CSP-UCB	84	367	680	
					4,659,804	2,371,299
	Direct					
	DEPARTMENT OF EDUCATION	VARIOUS	84	382	238,996	11,174
					238,996	11,174
	Direct					
	DEPARTMENT OF EDUCATION	VARIOUS	84	407	-712	
					-712	
	Direct					
	DEPARTMENT OF EDUCATION	VARIOUS	84	411	646,246	237,835
					646,246	237,835
	Direct					
	DEPARTMENT OF EDUCATION	VARIOUS	84	UNKNOWN	527,558	
	Passthrough/Partial Passthrough					
	CALIFORNIA CHILD DEVELOPMENT DIVISION	25727	84	UNKNOWN	-15,928	
	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTION	76B74	84	UNKNOWN	32,581	
	SAN DIEGO COUNTY	20851	84	UNKNOWN	913,391	
					1,457,602	
DEPARTMENT OF EDUCATION Total					32,005,501	3,616,650
SMITHSONIAN INSTITUTE						
	Direct					
	SMITHSONIAN	VARIOUS	85	UNKNOWN	-1	
					-1	
SMITHSONIAN INSTITUTE Total						-1
NATIONAL ARCHIVES AND RECORDS ADMINISTRATION						
	Direct					
	NATIONAL HISTORICAL PUBLICATIONS AND RECORDS COMMISSION	VARIOUS	89	003	95,546	
					95,546	
NATIONAL ARCHIVES AND RECORDS ADMINISTRATION Total					95,546	
DEPARTMENT OF HEALTH AND HUMAN SERVICES						
	Passthrough/Partial Passthrough					
	COUNTY OF SONOMA	XX-2016-33	93	004	4,160	
					4,160	
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	15-10250	93	074	2,310,259	
	COUNTY OF LOS ANGELES	H-705761:3	93	074	3,180	
					2,313,439	
	Passthrough/Partial Passthrough					
	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS	CIBDIX2015CDCUCD	93	080	15,730	
					15,730	
	Direct					
	SEC HHS OFFICE OF THE SECRETARY	VARIOUS	93	085	-3,145	
					-3,145	
	Direct					

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	OHDS ADMINISTRATION FOR CHILDREN AND FAMILIES	VARIOUS	93	092	751,066	492,641
					751,066	492,641
	Passthrough/Partial Passthrough NATIONAL COUNCIL FOR BEHAVIORAL HEALTH	2390.0005	93	098	111,537	
					111,537	
	Direct FDA PHS FOOD AND DRUG ADMINISTRATION	VARIOUS	93	103	72,022	
					72,022	
	Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	107	1,137,856	900,157
					1,137,856	900,157
	Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	110	3,548,766	169,333
	Passthrough/Partial Passthrough CHILDREN'S HOSPITAL LOS ANGELES	TGF8026(A)	93	110	1,895	
	UNIVERSITY OF COLORADO SYSTEM (SYSTEM PARENT CODE)	FY18.609.002	93	110	59,662	
					3,610,323	169,333
	Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	117	641,413	
					641,413	
	Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	127	269,971	57,252
					269,971	57,252
	Passthrough/Partial Passthrough HELUNA HEALTH	NU50CK000410-04-04	93	135	70,290	
					70,290	
	Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	153	1,239,941	572,590
					1,239,941	572,590
	Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	156	-1,146	
					-1,146	
	Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	157	489,056	6,684
					489,056	6,684
	Passthrough/Partial Passthrough AMERICAN COLLEGE OF MEDICAL TOXICOLOGY INC.	41U61TS000238-R9-01	93	161	172,499	
					172,499	
	Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	186	1,001,131	
					1,001,131	
	Passthrough/Partial Passthrough ESSENTIAL ACCESS HEALTH	1324-5320-71209-17-18	93	217	115,295	
	ESSENTIAL ACCESS HEALTH	58501	93	217	-20,508	
					94,787	
	Direct PHS AGENCY FOR HEALTHCARE RESEARCH AND QUALITY	VARIOUS	93	225	961,461	-5,934
					961,461	-5,934
	Direct PHS AGENCY FOR HEALTHCARE RESEARCH AND QUALITY	VARIOUS	93	226	334,223	
	Passthrough/Partial Passthrough SEATTLE CHILDREN'S HOSPITAL, RESEARCH AND FOUNDATION	11500SUB	93	226	45,616	
					379,839	
	Passthrough/Partial Passthrough MOUNT SINAI MEDICAL CENTER	0253-6142-4609:1	93	242	6,535	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES					6,535	
	Direct					
	ADMH PHS (SAMHSA) MENTAL HEALTH - CENTER FOR MENTAL HEALTH SERVICES	VARIOUS	93	243	1,422,904	174,548
	ADMH PHS (SAMHSA) PREVENTION - CENTER FOR SUBSTANCE ABUSE PREVENTION	VARIOUS	93	243	7,936,565	3,862,320
	ADMH PHS (SAMHSA) TREATMENT - CENTER FOR SUBSTANCE ABUSE TREATMENT	VARIOUS	93	243	556,947	
	HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	243	142,726	
	Passthrough/Partial Passthrough					
	AMERICAN ACADEMY OF ADDICTION PSYCHIATRY INC	PCSSMAT-16-7	93	243	38,873	
	AZUSA PACIFIC UNIVERSITY	S-1H79T1026021-1:1	93	243	53,614	
	UNIVERSITY OF WISCONSIN-MADISON	747K143	93	243	7,530	
	SUNRISE COMMUNITY COUNSELING CENTER	20174448	93	243	4,043	
					10,163,202	4,036,868
	Direct					
	HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	247	517,022	155,338
	Passthrough/Partial Passthrough					
	CALIFORNIA STATE UNIVERSITY SAN MARCOS CORPORATION	SUB 14-35DB (HP26952-01-00)	93	247	-176	
					516,846	155,338
	Direct					
	HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	253	2,459,467	2,459,467
	Passthrough/Partial Passthrough					
	UNIVERSITY OF MISSOURI - KANSAS CITY	0074255/00056301	93	260	38	38
	Direct					
	CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	262	1,449,788	1,449,788
	Passthrough/Partial Passthrough					
	UNIVERSITY OF WASHINGTON	759280 PRIOR 751195	93	266	146,545	146,545
	Direct					
	CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	270	122,106	122,106
	Passthrough/Partial Passthrough					
	UNIVERSITY OF NEW MEXICO	028373-873N:2	93	273	2,054	2,054
	Passthrough/Partial Passthrough					
	AMERICAN ACADEMY OF CHILD & ADOLESCENT PSYCHIATRY	20165007:1	93	276	216,736	216,736
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	17-10097	93	283	4,629,102	4,629,102
	Passthrough/Partial Passthrough					
	HELUNA HEALTH	0350.0102	93	307	17,542	17,542
	Passthrough/Partial Passthrough					
	BOSTON COLLEGE	5101962-9	93	310	1,079	139,357
	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	516-0016	93	310	139,357	140,436
	Passthrough/Partial Passthrough					
	HELUNA HEALTH	201702986	93	323	381,779	381,779
	Direct					
	CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	339	50,705	50,705
	Passthrough/Partial Passthrough					
	ALTAMED HEALTH SERVICES CORPORATION	20143247	93	359	72,503	

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
DEPARTMENT OF HEALTH AND HUMAN SERVICES	FAMILY HEALTH CENTERS OF SAN DIEGO, INC	SUB NONE(HP29857)	93	359	66,394 138,897	
	Passthrough/Partial Passthrough CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD DISORDERS	006	93	365	176,218 176,218	
	Passthrough/Partial Passthrough NRG ONCOLOGY	UCAI - YR. 1:GANZ - YR. 4	93	395	7,155 7,155	
	Passthrough/Partial Passthrough UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	158716/158715	93	398	17,290 17,290	
	Passthrough/Partial Passthrough NATIONAL ASSOCIATION OF CHRONIC DISEASE DIRECTORS	SUB 0602017	93	424	33,301 33,301	
	Direct FDA PHS FOOD AND DRUG ADMINISTRATION	VARIOUS	93	448	212,182 212,182	
	Direct CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	456	230,336	
	Passthrough/Partial Passthrough KENNEDY KRIEGER INSTITUTE	NU50MN000004	93	456	8,039 238,375	
	Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	510	199,150 199,150	
	Passthrough/Partial Passthrough UNIVERSITY OF ARIZONA	226256	93	516	77,969 77,969	68,411 68,411
	Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	16-10002	93	521	2,783,209 2,783,209	-10,302 -10,302
	Passthrough/Partial Passthrough PUBLIC HEALTH INSTITUTE	57558	93	531	-108 -108	
	Direct CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	542	-57,939 -57,939	-55,688 -55,688
	Passthrough/Partial Passthrough LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVICES	2015-01-05	93	556	218,689 218,689	
	Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF PUBLIC HEALTH CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	1210097 17-10015	93 93	566 566	1,282 53,117 54,399	
	Passthrough/Partial Passthrough SUTTER COUNTY	17-157	93	568	4,250 4,250	
	Direct OHDS ADMINISTRATION FOR CHILDREN AND FAMILIES	VARIOUS	93	600	1,517,675	12,584
	Passthrough/Partial Passthrough AMERICAN ACADEMY OF PEDIATRICS CALIFORNIA MEDICAL CENTER UNIVERSITY OF MASSACHUSETTS AMHERST UNIVERSITY OF MASSACHUSETTS AMHERST UNIVERSITY OF MASSACHUSETTS AMHERST UNIVERSITY OF MASSACHUSETTS AMHERST	719160 UCLA 20111273:8 20160127 20174766 20174774 80750	93 93 93 93 93 93	600 600 600 600 600 600	775,538 173,507 232,907 253,262 13,831 -188,889	225,417

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			Prefix	Extension	Federal Expenditures	Pass-thru for Subrecipients
DEPARTMENT OF HEALTH AND HUMAN SERVICES	UNIVERSITY OF MASSACHUSETTS AMHERST	90HC0011-01-00	93	600	87,546	
	UNIVERSITY OF MASSACHUSETTS AMHERST	81284	93	600	230,947	
	UNIVERSITY OF MASSACHUSETTS AMHERST	90HC0011-01-00:3	93	600	18,474	
	UNIVERSITY OF MASSACHUSETTS AMHERST	90HC0011-03-00	93	600	199,984	
					3,314,782	238,002
	Direct					
	OHDS ADMINISTRATION FOR CHILDREN AND FAMILIES	VARIOUS	93	604	283,850	
					283,850	
	Direct					
	SEC ADMINISTRATION FOR COMMUNITY LIVING	VARIOUS	93	631	8,562	
					8,562	
	Direct					
	SEC ADMINISTRATION FOR COMMUNITY LIVING	VARIOUS	93	632	559,920	-5,822
					559,920	-5,822
	Passthrough/Partial Passthrough					
	TEHAMA, COUNTY OF	CSA/SIP-2016-01	93	645	7,496	
	TEHAMA, COUNTY OF	EW-2016-036	93	645	13,041	
					20,537	
	Passthrough/Partial Passthrough					
	TEHAMA, COUNTY OF	26A57	93	659	376	
	LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVICES	16-09-01	93	659	373,298	
					373,674	
	Passthrough/Partial Passthrough					
CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	15-IA-00965	93	667	1,549		
LASSEN, COUNTY OF	CW-2016-15	93	667	1,975		
LASSEN, COUNTY OF	EW-2016-15	93	667	8,917		
LASSEN, COUNTY OF	CW-2017-15	93	667	4,250		
LASSEN, COUNTY OF	EW-2017-15	93	667	22,950		
TEHAMA, COUNTY OF	26A56	93	667	132		
				39,773		
Passthrough/Partial Passthrough						
CITY AND COUNTY OF SAN FRANCISCO	2002-08/09	93	670	19,032		
				19,032		
Direct						
HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	732	367,800	48,149	
				367,800	48,149	
Direct						
CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	735	902,071		
Passthrough/Partial Passthrough						
CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	17-10613	93	735	59,609		
				961,680		
Direct						
CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	738	833,555	85,786	
Passthrough/Partial Passthrough						
TOIYABE INDIAN HEALTH PROJECT INC.	35A33	93	738	806		
AMERICAN ASSOCIATION OF DIABETES EDUCATORS	20174111	93	738	7,368		
				841,729	85,786	
Passthrough/Partial Passthrough						
CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	16-10506	93	758	129,717		
				129,717		
Passthrough/Partial Passthrough						
ALZHEIMER'S ASSOCIATION CALIFORNIA SOUTHLAND CHAPTER	90AL0002-01-00	93	763	13,562		
CITY AND COUNTY OF SAN FRANCISCO	A129735	93	763	50,163		
				63,725		
Passthrough/Partial Passthrough						
CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	17-94653	93	788	605,623	70,465	
CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	17-94672	93	788	16,264		
UNIVERSITY OF MISSOURI	0081642/00061663	93	788	26,692		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES					648,579	70,465
	Passthrough/Partial Passthrough COUNTY OF LOS ANGELES	H-705762:5	93	817	325,100 325,100	
	Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	822	-18,720 -18,720	
	Direct CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	833	523,294 523,294	16,554 16,554
	Passthrough/Partial Passthrough GLADSTONE INSTITUTES	B8525	93	837	-6,634 -6,634	
	Passthrough/Partial Passthrough MASSACHUSETTS GENERAL HOSPITAL VANDERBILT UNIVERSITY	A126302 VUMC-10190	93 93	838 838	65,229 1,987 67,216	
	Passthrough/Partial Passthrough COLUMBIA UNIVERSITY	85616	93	846	710 710	
	Passthrough/Partial Passthrough AUGUSTA UNIVERSITY	3083524	93	847	111,741 111,741	
	Passthrough/Partial Passthrough NORTHWESTERN UNIVERSITY	82544	93	853	27 27	
	Passthrough/Partial Passthrough CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS. CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI OSEL INC. UNIVERSITY OF MINNESOTA	B1213 139469 79A64 P004756905	93 93 93 93	855 855 855 855	1,426 113,686 1,324 149,840 266,276	
	Passthrough/Partial Passthrough AMERICAN SOCIETY FOR CELL BIOLOGY CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI NORTH CAROLINA STATE UNIVERSITY	201502283 79860 2016-3285-01	93 93 93	859 859 859	7,091 46,799 19,186 73,076	
	Passthrough/Partial Passthrough CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI UNIVERSITY OF PENNSYLVANIA WASHINGTON UNIVERSITY IN ST. LOUIS	109528 109556 B2088 K12HD000850 569643 WU-17-239	93 93 93 93 93 93	865 865 865 865 865 865	58,529 59,442 307 -8,240 12,000 19,663 141,701	
	Passthrough/Partial Passthrough UNIVERSITY OF WISCONSIN-MADISON	809K012	93	866	28,920 28,920	
	Passthrough/Partial Passthrough JAEB CENTER FOR HEALTH RESEARCH, INC.	06002685	93	867	-2,418 -2,418	
	Passthrough/Partial Passthrough CALIFORNIA DEPARTMENT OF INSURANCE	16035IA	93	881	260,069 260,069	
	Direct HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	884	2,356,566	28,758

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DEPARTMENT OF HEALTH AND HUMAN SERVICES					2,356,566	28,758
	Passthrough/Partial Passthrough					
	AMERICAN FEDERATION-AGING RESEARCH	A124460	93	886	22,092	22,092
	Passthrough/Partial Passthrough					
	COUNTY OF LOS ANGELES	20604	93	889	10,746	1,701
	COUNTY OF LOS ANGELES	20652	93	889	12,447	
	Passthrough/Partial Passthrough					
	CITY AND COUNTY OF SAN FRANCISCO	BPHC10000131	93	914	1,966,873	
	CITY AND COUNTY OF SAN FRANCISCO	BPHC11000128	93	914	114,559	
	CITY AND COUNTY OF SAN FRANCISCO	DPHC1600794	93	914	1,094	
	CITY AND COUNTY OF SAN FRANCISCO	C2067	93	914	728,449	
	CITY AND COUNTY OF SAN FRANCISCO	CMS 7886	93	914	42,111	
	CITY AND COUNTY OF SAN FRANCISCO	CMS 7890	93	914	243,700	
	CITY AND COUNTY OF SAN FRANCISCO	DPHC17001025	93	914	296,129	
	CITY AND COUNTY OF SAN FRANCISCO	RFP43-2017	93	914	49,587	
	LOS ANGELES COUNTY DEPARTMENT OF HEALTH SERVICES	PH-002389	93	914	883,362	
	SAN DIEGO COUNTY	20840	93	914	-256	
	AIDS UNITED	SUB 20182427 (U69HA310670100	93	914	26,260	
					4,351,868	
	Direct					
	HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	924	13,640	13,640
	Direct					
	HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	928	1,405,563	
	Passthrough/Partial Passthrough					
	BOSTON UNIVERSITY	4500002544	93	928	16,067	1,421,630
	Passthrough/Partial Passthrough					
	INDIAN HEALTH COUNCIL, INC.	NARCH 5	93	933	124,755	124,755
	Passthrough/Partial Passthrough					
	FHI 360	953/0080.0142:7	93	936	31,576	31,576
	Direct					
	CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	939	976,900	25,000
	Passthrough/Partial Passthrough					
	AIDS PROJECT LOS ANGELES	59365	93	939	-1,246	
	AIDS PROJECT LOS ANGELES	80558	93	939	-26,385	
	AIDS PROJECT LOS ANGELES	C-117194	93	939	170,802	
	AIDS PROJECT LOS ANGELES	C-118200	93	939	22,804	
					1,142,875	25,000
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	15-10840	93	940	729,283	
	CITY AND COUNTY OF SAN FRANCISCO	BPHC12000084	93	940	484,933	
					1,214,216	
	Direct					
	CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	947	1,167,449	1,167,449
	Passthrough/Partial Passthrough					
	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	18325	93	959	71,812	71,812
	Direct					
	HRSA PHS HEALTH RESOURCES AND SERVICES ADMINISTRATION	VARIOUS	93	969	1,784,386	311,416
	Passthrough/Partial Passthrough					
	CALIFORNIA STATE UNIVERSITY, SAN DIEGO STATE UNIVERSITY	SUB SA0000468 (HP28717)	93	969	176,717	311,416
					1,961,103	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES	Passthrough/Partial Passthrough						
	NATIONAL FAMILY PLANNING & REPRODUCTIVE HEALTH ASSOCIATION INC.	FPRPA006059	93	974	100	100	
	Direct						
	CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	977	1,388,616	380,811	380,811
					1,388,616		
	Passthrough/Partial Passthrough						
	DARTMOUTH COLLEGE	1407	93	989	7,303		
	VANDERBILT UNIVERSITY	79438	93	989	-771		
					6,532		
	Passthrough/Partial Passthrough						
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	1410332	93	991	236,982		
					236,982		
	Direct						
	CDC CENTERS FOR DISEASE CONTROL AND PREVENTION	VARIOUS	93	UNKNOWN	142,458		
	FDA PHS FOOD AND DRUG ADMINISTRATION	VARIOUS	93	UNKNOWN	13,028		
	SEC HHS OFFICE OF THE SECRETARY	VARIOUS	93	UNKNOWN	11,939		
	Passthrough/Partial Passthrough						
	ASSOCIATION OF MATERNAL AND CHILD HEALTH PROGRAMS	201602918	93	UNKNOWN	12,653		
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	11-10828	93	UNKNOWN	17,933		
	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	1312010	93	UNKNOWN	-6,539		
	CITY AND COUNTY OF SAN FRANCISCO	DPHC15001030	93	UNKNOWN	-4,411		
	DEL NORTE COUNTY	EW-2017-06	93	UNKNOWN	30,600		
	HUMBOLDT COUNTY	201702673	93	UNKNOWN	952		
	ORANGE COUNTY	MA-063-16011090	93	UNKNOWN	33,180		
	SACRAMENTO, COUNTY OF	71A40	93	UNKNOWN	2,370		
	SAN JOAQUIN COUNTY	21B72	93	UNKNOWN	16,724		
	STANFORD UNIVERSITY	60687621104935	93	UNKNOWN	53,130		
	SUPERIOR COURT OF CALIFORNIA, COUNTY OF SAN FRANCISCO	15-029	93	UNKNOWN	-1,082		
	MOST INVESTMENTS, LLC	HHSP2332-014-00035C	93	UNKNOWN	121,791		
	SOCIETY FOR ADOLESCENT HEALTH AND MEDICINE	A130236	93	UNKNOWN	10,081		
					454,807		
DEPARTMENT OF HEALTH AND HUMAN SERVICES Total					63,120,932		7,586,467
CORPORATION FOR NATIONAL AND COMMUNITY SERVICE							
	Passthrough/Partial Passthrough						
	CALIFORNIAVOLUNTEERS	009301	94	006	236,821		
	JUMPSTART FOR YOUNG CHILDREN, INC.	900200	94	006	153,538		
	SUPERIOR COURT OF LOS ANGELES	20171242	94	006	14,530		
					404,889		
	Direct						
	CORPORATION FOR NATIONAL AND COMMUNITY SERVICE	VARIOUS	94	013	93,413		
					93,413		
	Direct						
	CORPORATION FOR NATIONAL AND COMMUNITY SERVICE	VARIOUS	94	UNKNOWN	90,957		
					90,957		
CORPORATION FOR NATIONAL AND COMMUNITY SERVICE Total					589,259		
SOCIAL SECURITY ADMINISTRATION							
	Passthrough/Partial Passthrough						
	DEL NORTE COUNTY	CW-2017-06	96	UNKNOWN	8,500		
					8,500		
SOCIAL SECURITY ADMINISTRATION Total					8,500		
DEPARTMENT OF HOMELAND SECURITY							
	Passthrough/Partial Passthrough						
	THE CENTER FOR RURAL DEVELOPMENT	FY15001903 UCDAVIS	97	005	15,419		
					15,419		
	Passthrough/Partial Passthrough						
	CALIFORNIA EMERGENCY MANAGEMENT AGENCY	2005-0011 0019 20	97	047	21,021		
	CALIFORNIA EMERGENCY MANAGEMENT AGENCY	2005-0011 0020 20	97	047	17,440		
					38,461		
DEPARTMENT OF HOMELAND SECURITY Total					53,880		
AGENCY FOR INTERNATIONAL DEVELOPMENT							
	Passthrough/Partial Passthrough						
	INTERNATIONAL AIDS VACCINE INITIATIVE INC.	2395	98	001	253,204		
	KANSAS STATE UNIVERSITY	S15115	98	001	832,419		249,115

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AGENCY FOR INTERNATIONAL DEVELOPMENT	KANSAS STATE UNIVERSITY UCP WHEELS FOR HUMANITY	S18113	98	001	71,890	
		WFF-2015-010-UKRTEAM	98	001	15,211	
					1,172,724	249,115
	Passthrough/Partial Passthrough					
	ARCADIA BIOSCIENCE, INC.	201300322	98	UNKNOWN	4,365	
	INTERNATIONAL MAIZE AND WHEAT IMPROVEMENT CENTER	26590	98	UNKNOWN	228,955	157,173
	KNCV TUBERCULOSIS FOUNDATION	1.00.708.1	98	UNKNOWN	468,758	
	MICHIGAN STATE UNIVERSITY	RC102095	98	UNKNOWN	52,202	
	NATIONAL ACADEMY OF SCIENCES	2000006396	98	UNKNOWN	2,018	
	THE NATIONAL ACADEMIES	201702123	98	UNKNOWN	12,011	
UNIVERSITY OF ILLINOIS	20140623001	98	UNKNOWN	224,958		
				993,267	157,173	
AGENCY FOR INTERNATIONAL DEVELOPMENT Total				2,165,991	406,288	
OTHER FEDERAL AGENCIES						
	Direct					
	PEACE CORPS	VARIOUS	99	UNKNOWN	40,966	
	Passthrough/Partial Passthrough					
	ANTHROTRONIX, INC.	UCLACRESST-06022016	99	UNKNOWN	37,692	
	CALIFORNIA DEPARTMENT OF EDUCATION	18746	99	UNKNOWN	7,370	
	CALIFORNIA DEPARTMENT OF EDUCATION	18747	99	UNKNOWN	-7,370	
	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	14-90487	99	UNKNOWN	768,656	
	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	18331	99	UNKNOWN	1,635	
	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	17-3207	99	UNKNOWN	151,500	4,786
	CALIFORNIA EMERGENCY MANAGEMENT AGENCY	RC17 33 1141	99	UNKNOWN	409,833	
	CALIFORNIA EMPLOYMENT DEVELOPMENT DEPARTMENT	M7105788	99	UNKNOWN	15,401	
	CITY OF LOS ANGELES	20701	99	UNKNOWN	-884	
	IQ SOLUTIONS INC.	NIDA/US-MEXICO FELLOWSHIP	99	UNKNOWN	2,819	
	LEIDOS BIOMEDICAL RESEARCH, INC.	63451	99	UNKNOWN	-6,120	
	LOS ANGELES UNIFIED SCHOOL DISTRICT	77104	99	UNKNOWN	-387,829	-14,857
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	63412	99	UNKNOWN	198	
	NEAR EAST SOUTH ASIA CENTER FOR STRATEGIC STUDIES	20171534	99	UNKNOWN	275,502	
	RTI INTERNATIONAL	SUB 3-312-0214571-52837L (200-	99	UNKNOWN	116,209	
	SAN DIEGO COUNTY	SUB 554608 (NONE)	99	UNKNOWN	280,793	
	SAN DIEGO COUNTY	SUB 554626 (NONE)	99	UNKNOWN	257,622	
	VIETNAM EDUCATION FOUNDATION	UCD2016G003	99	UNKNOWN	28,001	
	VIETNAM EDUCATION FOUNDATION	UCD2016G004	99	UNKNOWN	32,492	
	CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIARY SERVICES	86968	99	UNKNOWN	28,508	
	LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVICES	20641	99	UNKNOWN	-57	
	GREEN DOT PUBLIC SCHOOLS	77829	99	UNKNOWN	38,511	
	LOS ANGELES COUNTY OFFICE OF EDUCATION	20885	99	UNKNOWN	61,889	
	NEW VISION MIDDLE SCHOOL	77836	99	UNKNOWN	16,138	
	POPULATION SERVICES INTERNATIONAL	C2174	99	UNKNOWN	51,407	
	SOCIAL JUSTICE LEARNING INSTITUTE INC.	77837	99	UNKNOWN	33,421	
					2,254,303	-10,071
OTHER FEDERAL AGENCIES Total					2,254,303	-10,071
Other Programs Total					141,185,509	14,755,598
Grand Total					\$5,665,834,625	\$493,612,523

UNIVERSITY OF CALIFORNIA
Notes to Schedules of Expenditures of Federal Awards
Year Ended June 30, 2018

1. General

The accompanying Schedules of Expenditures of Federal Awards (“SEFA”) present the activity of all federal financial assistance programs of the University of California (the “University”), a component unit of the State of California, except for the University’s Benioff Children’s Hospital Oakland, which is separately reported.

Consistent with the provisions of Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administrative Requirements for Federal Awards (Uniform Guidance), the accompanying Schedules of Expenditures of Federal Awards do not include the expenditures of the Lawrence Berkeley National Laboratory – a major Department of Energy (“DOE”) national laboratory operated and managed by the University under contracts with DOE, as it represents a government-owned, contractor operated facility.

2. Basis of Accounting

The accompanying SEFA is presented on a cash basis as year-end accruals for financial statement purposes are performed in aggregate and not allocated to individual awards. Amounts expended for loan programs are reflected at the value of new loans made or received during the fiscal year plus the beginning balance of loans from previous years for which the federal government imposes continuing compliance requirements.

The information in these schedules is presented in accordance with the requirements of the Uniform Guidance. Negative amounts represent adjustments in the normal course of business to amounts reported in a prior year.

3. CFDA Numbers

Research and Development (R&D) direct awards are presented on the SEFA by federal agency and major subdivision within the federal agency, when applicable. Since Catalog of Federal Domestic Assistance (CFDA) numbers for federal programs are numerous, expenditures have been grouped by federal agency followed by the “RD” designation.

Pass-through and partial pass-through awards have been presented by pass-through entity, CFDA number, sponsor’s award number, when available, or by the University assigned identifier. When the CFDA number is not available, the federal award is presented by agency number and the suffix “RD” for R&D awards, and “UNKNOWN” for non R&D awards. When the federal agency and the federal identification number are not available, “99 RD” is used for R&D awards and “99 UNKNOWN” is used for non R&D awards.

4. Commingled Assistance

The University has included, within the SEFA, amounts received from pass-through entities, which include funds from federal and non-federal sources because the pass through entity is unable to determine the federal portion. Those funds are referred to as partial pass-through funds on the SEFA.

UNIVERSITY OF CALIFORNIA
Notes to Schedules of Expenditures of Federal Awards
Year Ended June 30, 2018

The California Student Aid Commission (“CSAC”) administers the State Cal Grant A and B Programs, selects the student recipients of these grant awards, and provides funds to participating institutions for disbursement. Federal Temporary Assistance for Needy Families (“TANF”) funds, CFDA number 93.558, from the United States Department of Health and Human Services may comprise up to approximately 48% of the total funding for these Cal Grant awards.

In fiscal year 2018, the University paid Cal Grant A and B funds in the amount of \$950,467,236; however, CSAC is unable to determine the exact amount of TANF funds, if any, represented in those awards. Therefore, the Schedules of Expenditures of Federal Awards do not include State Grant A and B awards.

5. Outstanding Balances on Loan Programs

Outstanding balances on federal loans programs as of June 30, 2018 are as follows:

	<u>CFDA</u>	<u>Principal Outstanding</u>
Federal Perkins Loan Program	84.038	\$190,367,020
Health Professions Student Loans, Loans for Disadvantaged Students, Primary Care Loans	93.342	\$58,761,681
Nursing Student Loan	93.364	\$1,398,829
Nursing Student Faculty Loan	93.264	\$812,361
ARRA - Nursing Faculty Loan	93.408	\$92,598

6. Facilities and Administrative Costs

The University uses its negotiated indirect costs rates instead of the 10% de minimis rate allowed by the Uniform Guidance.



Report of Independent Auditors on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with *Government Auditing Standards*

To the Regents of the University of California

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the University of California (the "University") its aggregate discretely presented component units, the University of California Retirement System (the "Plans") and the University of California Retiree Health Benefit Trust (the "Trust") at June 30, 2018, which comprise the University's Statements of Net Position and the Statements of Plans' and Trust's Fiduciary Net Position, the University's Statements of Revenues, Expenses and Changes in Net Position, the Statements of Changes in Plans' and Trust's Fiduciary Net Position and the University's Statement of Cash Flows for the year then ended, and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated October 12, 2018. The financial statements of the University's discretely presented component units were not audited in accordance with *Government Auditing Standards*, and accordingly, this report does not include reporting on internal control over financial reporting or instances of reportable noncompliance associated with the University's discretely presented component units.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the University's internal control over financial reporting ("internal control") to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we do not express an opinion on the effectiveness of the University's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. *A material weakness* is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. *A significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.



Compliance and Other Matters

As part of obtaining reasonable assurance about whether the University's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

PricewaterhouseCoopers LLP

San Francisco, California
October 12, 2018



**Report of Independent Auditors on Compliance with Requirements
That Could Have a Direct and Material Effect on Each Major Program and on Internal
Control Over Compliance in Accordance with the Uniform Guidance**

To the Regents of the University of California

Report on Compliance for Each Major Federal Program

We have audited the University of California's (the "University"), a component unit of the State of California, compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of the University's major federal programs for the year ended June 30, 2018. The University's major federal programs are identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs.

The University's basic financial statements include the operations of the University's Benioff Children's Hospital & Research Center Oakland, which expended \$15,735,441 in federal awards that is not included in the University's schedule of expenditures of federal awards during the year ended June 30, 2018. Our audit, described below, did not include the federal expenditures of University's Benioff Children's Hospital & Research Center Oakland because a discrete report in accordance with Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance) is issued for this entity.

Management's Responsibility

Management is responsible for compliance with federal statutes, regulations and the terms and conditions of its federal awards applicable to its federal programs.

Auditors' Responsibility

Our responsibility is to express an opinion on compliance for each of the University's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each major federal program. However, our audit does not provide a legal determination of the University's compliance.



Opinion on Each Major Federal Program

In our opinion, the University of California complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2018.

Other Matters

The results of our auditing procedures disclosed instances of noncompliance, which are required to be reported in accordance with the Uniform Guidance and which are described in the accompanying schedule of findings and questioned costs as items 2018-001, 2018-002, 2018-003, and 2018-004. Our opinion on each major federal program is not modified with respect to these matters.

The University's response to the noncompliance findings identified in our audit is described in the accompanying management's views and corrective action plan. The University's response was not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the response.

Report on Internal Control Over Compliance

Management of the University is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the University's internal control over compliance with the types of requirements that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over compliance.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. *A material weakness in internal control over compliance* is a deficiency, or combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. *A significant deficiency in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.



The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

PricewaterhouseCoopers LLP

San Francisco, California
February 25, 2019

University of California
Schedule of Findings and Questioned Costs
Year Ended June 30, 2018

SECTION I – SUMMARY OF AUDITOR’S RESULTS

Financial Statements

Type of auditor’s report issued: Unmodified

Internal control over financial reporting:

- Material weakness(es) identified? No
- Significant deficiency(ies) identified that are not considered to be material weaknesses None reported

Noncompliance material to the financial statements noted? No

Federal Awards

Internal control over major programs:

- Material weakness(es) identified? No
- Significant deficiency(ies) identified that are not considered to be material weaknesses None reported

Type of auditor’s report issued on compliance for major programs Unmodified

Any audit findings that are required to be reported in accordance with 2 CFR 200.516(a)? Yes

Identification of major programs:

Program Name	CFDA Number
Student Financial Assistance Cluster	84.Variou s & 93.Variou s
Global Aids Program	93.067
HIV Related Training and Technical Assistance Program	93.145

Dollar threshold used to distinguish between type A and type B programs: \$16,997,504

Auditee qualified as a low-risk auditee? Yes

**University of California
Schedule of Findings and Questioned Costs
Year Ended June 30, 2018**

SECTION II – FINANCIAL REPORTING FINDINGS

None Noted.

**University of California
Schedule of Findings and Questioned Costs
Year Ended June 30, 2018**

SECTION III – FEDERAL AWARD FINDINGS AND QUESTIONED COSTS

2018-001 – Reporting Perkins Loan Disbursements to NSLDS

Program: Student Financial Assistance Cluster

CFDA Title: Federal Perkins Loans

CFDA Number: 84.038

Sponsoring Agency: Department of Education

Award Year: 2017 – 2018

Condition:

In testing the University's conformity with the compliance requirements for Federal Perkins Loans disbursements at one campus, we identified 14 out of 25 students sampled in which there was no evidence the University reported Federal Perkins Loans data to the U.S. Department of Education's National Student Loan Data System for Students central database after the loans were disbursed. This information was not submitted to NSLDS until after the error was noted during the 2018 audit.

Citation:

34 CFR 674.16 (j)

Criteria:

After a Perkins loan disbursement has been made, schools with active Federal Perkins loans are required to report new loans or updated data on existing loans to NSLDS once a month on a schedule established by the Department of Education.

Questioned Cost: None

Cause:

Due to the University's transition between student loan service providers, the University did not submit numerous set-up documents to their new service provider that were needed in order to report Federal Perkins Loans data to NSLDS.

Effect:

The University did not report Federal Perkins Loan data to the National Student Loan Data System central database as required, resulting in the omission and incomplete student loans from the system. This information is relied upon when awarding federal aid.

Recommendation:

Management should review their procedures to ensure timely and accurate reporting to the NSLDS. We also recommend that management review the data included on the NSLDS site to confirm the information is accurate and complete. Additionally, we recommend that management perform an integration review between the old and new systems to ensure all student loan information is being appropriately reported to the NSLDS.

Management's Views and Corrective Action Plan:

Management's response is reported in "Management's Views and Corrective Action Plan" included at the end of this report.

University of California

Schedule of Findings and Questioned Costs

Year Ended June 30, 2018

2018-002 – The Return of Title IV funds – Refund to the ED

Program: Student Financial Assistance Cluster

CFDA Title: Federal Pell Program; Federal Direct Loans

CFDA Number: 84.268 - Federal Direct Loans; 84.063 – Federal Pell Grants

Sponsoring Agency: Department of Education

Award Year: 2017 – 2018

Condition:

In testing the University's conformity with the compliance requirements around the return of Title IV funds, we selected 75 students across three campuses who received Title IV assistance but then dropped out, withdrew or never began attendance. For each student we tested whether the Title IV fund return determination was in conformity with Title IV requirements as well as if any Title IV funds were returned to the Department of Education (ED) and the return was timely. At one campus, we identified 2 of the 25 students sampled had an error in the return of Title IV calculation causing the ED to be under refunded by \$2,076.

Citation:

34 CFR 668.22

Criteria:

When a recipient of title IV grant or loan assistance withdraws from a University during a payment period or period of enrollment in which the recipient began attendance, the University must determine the amount of title IV grant or loan assistance that the student earned as of the student's withdrawal date.

Questioned Cost: \$2,076

Cause:

Financial Aid advisors perform the return of Title IV calculation. When a student is classified as an unofficial withdrawal, the Financial Aid Advisor checks a box on the form and the return is calculated as a 50% refund. For two students samples the unofficial withdrawal box was checked in error. As both students had officially withdrawn with under 50% enrollment completed, and therefore should have had a refund greater than 50%, both calculations were under calculated.

Effect:

The ED was under refunded Title IV funds in the amount of \$2,076.

Recommendation:

Management should implement a policy to have secondary review of Title IV refunds, to ensure correct amounts of Title IV funds are returned to the ED. In addition, management should look to perform further training to the financial aid advisors over the calculations and the effect of not calculating the refunds accurately.

Management's Views and Corrective Action Plan:

Management's response is reported in "Management's Views and Corrective Action Plan" included at the end of this report.

University of California

Schedule of Findings and Questioned Costs

Year Ended June 30, 2018

2018-003 – Enrollment Reporting

Program: Student Financial Assistance Cluster

CFDA Title: Federal Perkins Loans; Federal Direct Loans; Federal Pell Grants

CFDA Number: 84.038 - Federal Perkins Loans; 84.268 - Federal Direct Loans; 84.063 – Federal Pell Grants

Sponsoring Agency: Department of Education

Award Year: 2017 – 2018

Condition:

In testing the University's conformity with the compliance requirements for enrollment reporting, we sampled 160 students across four campuses. For 21 out of the 160 students sampled, their change in status, withdrawal/graduation, was not reported to the National Student Loan Data Systems (NSLDS) correctly or at all.

Citation:

34 CFR section 690.83(b)(2); 34 CFR 674.19; 34(f) CFR 685.309(b)

Criteria:

An institution shall submit, in accordance with deadline dates established by the Secretary, through publication in the Federal Register, other reports and information the Secretary requires and shall comply with the procedures the Secretary finds necessary to ensure that the reports are correct.

Enrollment reporting process. (1) Upon receipt of an enrollment report from the Secretary, an institution must update all information included in the report and return the report to the Secretary— (i) In the manner and format prescribed by the Secretary; and (ii) Within the timeframe specified by the Secretary.

Questioned Cost: None

Cause:

All campuses utilize the services of National Student Clearinghouse (NSC) to assist in the reporting of enrollment status changes to NSLDS. In 4 instances, the reporting was done timely from the campus to NSC but then NSC ultimately did not report the status changes to NSLDS accurately. NSC either had a coding issue for students receiving multiple degrees from separate colleges or miscoded a student's degree program length preventing an accurate transmission of the graduation status to NSLDS by NSC. In 5 instances, the incorrect effective date was reported due to an update within the NSC system. NSC reported the graduation date based on the last day of instruction when they should have reported the end of the term as the effective date. In 1 instance, the incorrect effective date was reported due to a clerical error by the Campus in the manual submission to NSLDS. In 3 instances, the reporting of status changes was untimely due to a lag in reviewing the changes. In 8 instances, the graduation status was never reported to NSC or NSLDS, and the campuses are still investigating why they were not reported with a change in status.

Effect:

The effective administration of Title IV loans could be impacted when changes in student status are not reported timely and accurately. The accuracy of enrollment information is important as a student's enrollment status determines eligibility for in-school status, deferment, grace periods, and repayments, as well as the Government's payment of interest subsidies.

**University of California
Schedule of Findings and Questioned Costs
Year Ended June 30, 2018**

Recommendation:

We recommend that the campuses review the data included on the NSLDS website to confirm that the information is both accurate and timely. We also recommend that the affected campuses perform an integration review to ensure all students are being appropriately reported to the NSLDS.

Management's Views and Corrective Action Plan:

Management's response is reported in "Management's Views and Corrective Action Plan" included at the end of this report.

University of California

Schedule of Findings and Questioned Costs

Year Ended June 30, 2018

2018-004 – Disbursements

Program: Student Financial Assistance Cluster

CFDA Title: Federal Perkins Loans

CFDA Number: 84.038

Sponsoring Agency: Department of Education

Award Year: 2017 – 2018

Condition:

Through our testing of 25 students and 243 individual FSA disbursements on one campus, we noted 38 instances where Perkins Loans were credited to a students' account (and thus deemed disbursed) prior to 10 days before the start of classes in the payment period. The campus did not label these funds as estimated or anticipated and thus they were deemed disbursed when applied to the student accounts. The early disbursements ranged from 12 to 48 days early.

Citation:

34 CFR 668.164(i)(i-ii)

Criteria:

The earliest a school can disburse aid to a student is 10 days before the first day of classes in a payment period. A disbursement occurs when a school credits a student's account or pays a student or parent directly with Federal Student Aid (FSA) funds received from the Department of Education; or school funds labeled as FSA funds in advance of receiving actual FSA funds. An exception to this rule is if the school simply makes a memo entry for billing purposes or credits a student's account and does not identify it as an FSA credit. For example, some schools prepare billing statements or invoices showing the estimated amount of FSA funds that students are eligible to receive. These estimated amounts are not FSA disbursements.

Questioned Cost: None

Cause:

Due to staff turnover at the University, the appropriate personnel were not trained and notified of the compliance requirements to disburse funding no more than 10 days prior to the start of classes.

Effect:

The date of disbursement determines when the student becomes an FSA recipient and has the rights and responsibilities of an FSA recipient. Incorrect disbursement dates could impact return of Title IV calculations and certain other regulatory requirements that are based on this date.

Recommendation:

Management should review their procedures to ensure that federal funds are not released more than ten before the start of each term.

Management's Views and Corrective Action Plan:

Management's response is reported in "Management's Views and Corrective Action Plan" included at the end of this report.

University of California

Schedule of Prior Audit Findings and Status

Year Ended June 30, 2018

Finding 2017-001: IT Privileged Access (Significant Deficiency)

Program: All Federal Programs

Sponsor Award Number: All Sponsor Award Numbers

Sponsoring Agency: All Sponsoring Agencies

CFDA Number: All

Institute Award Number: None

Award Period: 2016 – 2017

Condition:

As part of PwC's prior year testing over Information Technology General Controls ("ITGCs") across ten in scope IT locations including the Office of the President, three campuses and five academic medical centers, PwC evaluated the design and operating effectiveness of a variety of access to programs and data controls. PwC's evaluation of the design and operating effectiveness was limited to systems that we deemed to be "in-scope" for purposes of the audit and did not represent all financial or information technology systems and was not intended to comment on the potential for system intrusion in general. However, for the financial systems included in scope, PwC evaluated whether: 1) IT professional and application users were assessed on a periodic basis to ensure that access rights are commensurate with existing roles and responsibilities; 2) Management performs monitoring of database administrator's access and/or their related activity to ensure that changes are consistent with their job responsibilities and appropriate. As communicated in the 2016 report, PwC observed that the access to programs and data controls procedures noted above varied in their level of performance and were not performed consistently or not formally documented. There were 28 access to programs and data control related findings noted across in-scope locations: Office of the President, medical centers, and campuses. Findings are related to the absence of formal documentation of the access review, inconsistent performance of the controls, lack of formalized evidence of direct access to data monitoring, and the completeness and accuracy of the user listings reviewed. While IT control exceptions were deemed to be "Control Deficiencies" at each of the individual locations, given the pervasiveness and heightened risk around IT Privileged Access, PwC determined that these exceptions in the aggregate, required the attention of those charged with governance and therefore included in the Regents' Letter. The absence of formally performed and documented periodic user access reviews, direct data access monitoring, and developer access to migrate changes to production may increase the risk of unauthorized access or unauthorized changes to data and systems.

Action Taken:

University management has implemented corrective actions across various locations in response to these IT Privileged Access findings. For fiscal year 2017-2018, the number of unremediated findings from the prior year related to access to programs and data has been reduced. University management plans to continue in taking corrective actions for these remaining findings and be completed in the following fiscal year.

**University of California
Schedule of Prior Audit Findings and Status
Year Ended June 30, 2018**

2017-002 –The Return of Title IV funds – Refund to the ED

Program: Student Financial Assistance Cluster

Sponsor Award Number: Federal Parent PLUS Loan Program; Federal Subsidized Loan Program and Federal Unsubsidized Loan Program;

Sponsoring Agency: Department of Education(ED)

CFDA Number: 84.268 – Federal Direct Student Loans

Institute Award Number: None

Award Period: 2016 - 2017

Condition:

In testing the University's conformity with the compliance requirements around the return of Title IV funds, PwC selected 10 of 75 total students who received Title IV assistance but then dropped out, withdrew or never began attendance. For each student PwC tested whether the Title IV fund return determination was in conformity with Title IV requirements as well as if any Title IV funds were returned to the ED and the return was timely. For 2 of the students sampled, totaling \$9,933, the return to the ED was not initiated within 30 days of the University becoming aware that the student would not begin attendance.

Action Taken:

The affected campus converted to a new integrated student information system during the audit period evaluated. During the implementation period, system limitations prevented the timely extraction of the data needed to identify students who dropped out, withdrew or never began attendance after receiving Title IV assistance. The subsequent development of on-demand system reports has allowed for the appropriate and timely identification of this population of students. In addition, as of August 2017, this campus has instituted a process to review the system reports and to manually reverse aid for which the students are no longer eligible, ensuring that returns are made within 30 days of the term cancellation. Once disbursement for the term begins, the system reports are run on a daily basis through the first week of the term. After that, the reports are run on a weekly basis and coordinated with other withdrawal monitoring processes.

The following corrective actions were completed by the affected campus:

The on-demand reports and the review process were fully implemented as of August 31, 2017.

University of California

Schedule of Prior Audit Findings and Status

Year Ended June 30, 2018

2017-003 – Student Loan Repayments – Exit Interviews

Program: Student Financial Assistance Cluster

Sponsor Award Number: Federal Perkins Loan Program

Sponsoring Agency: Department of Education

CFDA Number: 84.038- Federal Perkins Loan Program

Institute Award Number: None

Award Period: 2016 – 2017

Condition:

In testing the University's conformity with the compliance requirements for Student Loan Repayments, at one campus PwC selected 25 students who received Federal Perkins Loans and entered the repayment period. For each student, PwC tested if the student signed a Promissory Note, which includes the repayment plan, as well as if the student received an exit interview. For 4 of the students sampled, there was not documentation that exit interviews were conducted or follow-up email notifications were sent.

Action Taken:

During the audit period evaluated the affected campus converted from the legacy mainframe system to a new integrated student information system. The exit interview exception resulted from a timing gap during the conversion period. As of November 2017, remediation action has been completed to address all exits identified as impacted by the timing gap. With the new student information system, a new process has been instituted in conjunction with our new loan servicer (ECSI) to ensure student enrollment status is updated regularly, exit notifications are sent timely, and exit completions are tracked. Additionally, this campus has identified appropriate system reports for monitoring and instituted a regular monthly review process based on the new structure and reporting.

The following corrective actions were completed by the affected campus:

Remediation of identified exceptions completed as of November 2017. New process has been implemented with recurring review of appropriate system reports.

University of California

Schedule of Prior Audit Findings and Status

Year Ended June 30, 2018

2017-004 – Enrollment Reporting (Significant Deficiency)

Program: Student Financial Assistance Cluster

Sponsor Award Number: Federal Perkins Loan Program; Federal Direct Loans;

Sponsoring Agency: Department of Education

CFDA Number: 84.038- Federal Perkins Loan Program; 84.063- Federal Pell Grants, 84.268- Federal Direct Loans

Institute Award Number: None

Award Period: 2016 – 2017

Condition:

In testing the University's conformity with compliance requirements for enrollment reporting, PwC sampled 120 students across three campuses. For approximately 12.5% of the students sampled, the date reported as received by the National Student Loan Data System (NSLDS) was beyond 60 days from the effective date transmitted by the University. For approximately 23% of the students sampled, the status effective date did not agree to the reported date per the NSLDS.

In addition, PwC noted that three campuses from the prior year, which were not subject to testing in the current year, had commenced but not fully completed implementation of planned corrective actions to address late reporting issues identified.

Action Taken:

There were two campuses affected by this finding. The enrollment findings were primarily a result of these campuses transitioning to new student information systems.

Over the last year, these campuses have worked to better understand delivered enrollment reporting functionality and to stabilize the reporting process to NSLDS via the new systems. In addition, to minimize risk of compliance errors, procedures were developed to update NSC to match the student information system when necessary, understand the dates used by NSC for the effective date of graduation, analyze submission schedules to ensure appropriate buffer room for NSC and NSLDS processing time, and explore the possibility of modifying the enrollment report delivered in the student information system to better capture the correct effective date. The affected campuses are also enhancing the auditing process to ensure it is structured to maximize its ability to identify errors. We expect to complete these steps by March 2018.

The following corrective actions were completed by the affected campuses:

One of the affected campuses has evaluated their submission schedule and determined it is sufficient to meet requirements. This campus has reviewed procedures to continue to minimize risk. In addition, the campus found that their Banner system is stable as of October 2017. Beginning November 2017, the other affected campus began reporting the effective date of the student's withdrawal, rather than using the date that the data was submitted to the NSC.

University of California

Schedule of Prior Audit Findings and Status

Year Ended June 30, 2018

2017-005 –Equipment Additions and Inventory

Program: Research & Development Cluster

Sponsor Award Number: 1R01GM109069

Sponsoring Agency: Health and Human Services – National Institute of General Medical Science

CFDA Number: 93.859

Institute Award Number: 141458 Fund 212C2A

Award Period: 2016 – 2017

Condition:

In testing the University's conformity with the compliance requirements for equipment management, PwC selected 25 assets from the detailed listing provided. In order to test whether the University maintained proper records for equipment, PwC compared the information per the entity equipment records to information per the vendor invoice and entity purchase order for each items selected. PwC noted one asset out of the 25 selections, which was over capitalized by \$418 due to a tax adjustment. Additionally, the asset's improper capitalization was not discovered during University management's review, as the review is done on a sample basis and this particular asset was not selected for review.

Noted no indication that the equipment was unallowable.

Action Taken:

At the affected campus the cost of newly acquired inventorial equipment is currently determined by monthly review and reconciliation of the vendor invoice, and accounts payable system. This campus has instituted an improved training program on equipment costing and reconciliation for all Equipment Management staff. Additionally the review of the reconciliation performed monthly will include a sample set of 10% of the newly capitalized equipment and biannually will include a second sample set of 2% of all newly acquired equipment. This campus is evaluating increased automation in the reconciliation process using the accounts payable system to establish the actual equipment costs. A permanent solution is expected to be implemented by September 30, 2018.

The following corrective actions were completed by the affected campus:

Since March 2018, the affected campus has implemented an improved training program for Equipment Management staff. In addition, the review of the reconciliation performed monthly has been documented, and Equipment Management staff has begun the 10% sample set review starting with acquisitions during the month of May. The second sample set of 2% has started after June 30, 2018. Equipment Management has also added an extra employee and created a reconciliation document to systemically reconcile the capitalization value for each asset to improve the ability to properly capture acquisition costs. These processes have been fully implemented as of September 30, 2018.

**University of California
Schedule of Prior Audit Findings and Status
Year Ended June 30, 2018**

2017-006 Cash Management Timing of Reimbursement Requests

Program: Research & Development Cluster

Sponsor Award Number: Various

Sponsoring Agency: All Research & Development

CFDA Number: Various

Institute Award Number: Various

Award Period: 2016 – 2017

Condition:

In testing the University's conformity with the compliance requirements for cash management at one campus, PwC identified that the campus did not have a process in place to ensure that all expenditures are paid prior to requesting reimbursement. This was noted as a design deficiency in 2016 and management has since implemented corrective action; however, such corrective action was not in place for the current year under audit ended June 30, 2017.

Action Taken:

As of October 1, 2017, the affected campus has fully implemented a new business process to calculate the daily cash draw for expense reimbursements resulting from actual disbursements. Expenses, for which amounts have not yet been disbursed to vendors, will be excluded from the draw. The only exception is for final grant draws, where the final report has been filed with the agency and documents expenses not yet disbursed. This practice allows timely reporting while preserving the ability to draw funds prior to the agencies' closeout of the award.

The following corrective actions were completed by the affected campus:

Corrective action has been fully implemented, and the affected campus has updated their procedures to reflect the new process and is currently documenting this change.

University of California

Schedule of Prior Audit Findings and Status

Year Ended June 30, 2018

2017-007 Key Personnel Monitoring (Significant Deficiency)

Program: Research & Development Cluster

Sponsor Award Number: Various

Sponsoring Agency: Department of Agriculture; Department of Housing and Urban Development; Department of the Interior; Department of Justice; Department of State; National Aeronautics and Space Administration; National Science Foundation; Environmental Protection Agency; Department of Energy; Department of Education; Department of Health and Human Services

CFDA Number: 10.Variou; 11.Variou; 14.Variou; 15.Variou; 16.Variou; 19.Variou; 43.Variou; 47.Variou; 66.Variou; 81.Variou; 84.Variou; 93.Variou

Institute Award Number: Various

Award Period: 2016-2017

Condition:

In testing the University's conformity with the compliance requirements for monitoring key personnel, it was noted that at select campuses there was not a centralized process in place to monitor changes in key personnel. Instead of a centralized process, reliance was placed upon the individual principal investigator's (PI) monitoring of the award and key provisions thereof. In PwC's prior year testing, they noted instances in which changes in key personnel were not communicated timely as required. As a result of PwC's prior year finding, University management undertook corrective action during the year to enhance processes and training. However, such corrective actions were not fully implemented for the year ended June 30, 2017. Although PwC's 2017 sample yielded no instances of untimely reporting of changes, PwC repeated this finding as all corrective actions were not fully implemented for the period under audit.

Action Taken:

The affected campus operates in a decentralized environment in which each department tracks and monitors key personnel and obtains the written approval as needed.

This campus has now implemented a standardized process at the central offices to capture all the key personnel named in the Notices of Awards for all new awards effective December 1, 2017. In this new standardized process this campus will record all key personnel named on the Notice of Awards in their database system of record for contracts and grants activity beginning with new award received after December 1, 2017. Additionally, the central offices will monitor key personnel changes with active awards by sending quarterly reminders to campus departments to document the review of the required effort and obtain approvals if there will be any reduction in effort for key personnel by more than 25%.

This campus is also developing a reporting tool to capture all key personnel data recorded in their database. This reporting tool is expected to be completed by March 2018.

The following corrective actions were completed by the affected campus:

Corrective action has been fully implemented. The affected campus has updated its Standard Operating Procedures for award set up to include the procedures for the new standardized process, and implemented the reporting tool to capture all key personnel data recorded in our database. Additionally, the central offices are now monitoring key personnel changes with active awards by sending the key personnel report quarterly to campus departments for review of the required effort and obtain approvals if there will be any reduction in effort for key personnel by more than 25%.

**University of California
Schedule of Prior Audit Findings and Status
Year Ended June 30, 2018**

2017-008: IT Privileged Access

Program: All Programs

Sponsor Award Number: All Sponsors

Sponsoring Agency: All Agencies

CFDA Number: All CFDA Numbers

Institute Award Number: All Awards

Award Period: 2016 – 2017

Observation:

As discussed in Financial Statement Finding 2017-001, certain deficiencies exist related to privileged access which PwC assessed related to their financial audit reporting scope. The majority (approximately 75%) of these findings related to in-scope medical centers which do not administer federal awards. However, a lesser number of control deficiencies were also noted for four campuses related to access, and some of which affected systems that impact federal awards, including procurement, payroll and the general ledger. Please refer to Finding 2017-001 for additional detail.

Action Taken:

Refer to 2017-001 above.

University of California

Schedule of Prior Audit Findings and Status

Year Ended June 30, 2018

2017-009 – Service Centers

Program: Research & Development Cluster

Sponsor Award Number: Various

Sponsoring Agency: Health and Human Services – National Center for Advancing Translational Sciences, NIH – National Heart, Lung, and Blood Institute

CFDA Number: 93.350 and 93.839

Institute Award Number: Various

Award Period: 2016 – 2017

Condition:

In testing the University's conformity with the compliance requirements for service centers, PwC selected 20 Service Centers for testing. In order to test that the University's recharge activities were operated on a no-gain/no-loss basis, PwC requested the latest rate charge review for the selected service centers to ensure that any surplus or deficit was corrected by an adjustment of rates to achieve a break-even balance in the following year. Of the 20 selections PwC discovered that four of the service centers did not have evidence of having performed a rate review and therefore did not adjust their rates biennially as required.

However, the majority of the tested service centers were within a reasonable amount, either above or below the break-even point, and PwC noted no indication that the service center charges were unallowable.

Action Taken:

The affected campus agrees with the finding that some service center rates were not reviewed within the prior two years as stated in our internal guidelines. This campus will (1) review the policies on service center classifications and rate review procedures, (2) develop a responsibility matrix and action plan to ensure appropriate review requirements and timelines are met by service centers, (3) develop protocols to escalate and support rate review submissions as necessary, (4) review all recharge organizations to ensure they are appropriately identified with an appropriate fund assignment.

We expect to complete these steps by September 30, 2018.

The following corrective actions were completed by the affected campus:

The 4 steps corrective actions described in the Management's Response and Correction Action Plan have been fully implemented as of September 2018.



OFFICE OF THE EXECUTIVE VICE PRESIDENT—
CHIEF FINANCIAL OFFICER

OFFICE OF THE PRESIDENT
1111 Franklin Street, 6th Floor
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February 25, 2019

MANAGEMENT'S RESPONSE AND CORRECTIVE ACTION PLAN

REPORT ON AUDIT OF FINANCIAL STATEMENTS AND ON FEDERAL AWARD PROGRAMS IN ACCORDANCE WITH 2 CFR 200, UNIFORM GUIDANCE, FOR THE YEAR ENDED JUNE 30, 2018

2018-001 – Reporting Perkins Loan Disbursements to NSLDS

During the audit period evaluated the affected campus transitioned to a new loan servicing vendor and did not complete all the conversion steps necessary to accurately report the Federal Perkins Loan data to the U.S. Department of Education's National Student Loan Data System (NSLDS). The issue with the vendor has been corrected and all appropriate data has been reported to NSLDS. The Loan Coordinator in Student Financial Solutions will review the NSLDS error report on a monthly basis to verify updated Perkins data between the loan servicer ECSI and NSLDS and to ensure all data is reported accurately and in a timely manner.

2018-002 – Return of Title IV funds – Refund to the Department of Education

At the affected campus, the Return of Title IV calculations (R2T4's) were performed by the counselors in the Financial Aid and Scholarships Office. The R2T4 process has now been moved under a single Assistant Director for closer oversight, and all R2T4's are being reviewed by the Assistant Director. Additional R2T4 training will be provided to all counselors by the end of March 2019. Thereafter, R2T4 training will continue on a regular basis. The campus will assign the R2T4 process to a specialty team of counselors and hire a Compliance Office who will take up an active role to ensure (1) federal guidelines are adhered to, (2) thorough training is conducted on a regular basis, and (3) all calculations are reviewed for accuracy. The campus anticipates completing these steps by June 2019. The under-refunded amount is in route to the Department of Education.

2018-003 – Enrollment Reporting

There were three campuses affected by this finding. Two of the affected campuses the enrollment reporting finding was primarily miscoding related to degree program length, student receiving

Management's Response and Corrective Action Plan
February 25, 2019

multiple degrees from separate colleges and manual updating. While the reporting was done timely from these campuses to the National Student Clearinghouse (NSC), the NSC ultimately did not report the status changes to the NSLDS accurately due to coding issues. The non-compliant records from the third affected campus were from the summer 2017 and fall 2017 terms which were during the stabilization period of its new student information system. All the identified records have been corrected.

The appropriate staff from the Registrar's Office and Financial Aid and Scholarship Office at one affected campus will have NSC/NSLDS training by June 2019. In addition, a quality check process will be implemented by June 2019 for records requiring manual updates which will include confirming NSC data by the Registrar's staff and NSLDS data by the Financial Aid and Scholarships' staff.

The Registrar's office of another affected campus has begun reviewing vendor coding requirements and NSLDS information to evaluate transmissions from the NSC to NSLDS. In addition, the campus plans to integrate in the existing error transmission process additional review of NSC graduation reporting anomalies. Campus expects to finalize the review by June 2019.

When the third affected campus was informed of the error in fall 2017 during the prior year audit, procedures were immediately reviewed, adjusted, and implemented for the winter 2018 term and spring 2018 term, and no new enrollment reporting exceptions were identified by the auditor.

In addition, to re-emphasize the importance of timeliness in their processing, the University will re-issue the internally developed enrollment reporting best practices to campuses to follow to assure enrollment changes are reported appropriately through the NSC to the NSLDS.

2018-004 – Disbursements

Due to a staff turnover at the affected campus, appropriate personnel were not properly notified to withhold the release of federal funds. Effective Fall 2018 all federal aid is scheduled to disburse directly to students' accounts on or after 10 days prior to the start of the term. An Associate Director is responsible for developing the Quarterly Calendar which includes the initial disbursement date for each quarter. To ensure the initial disbursement date is within the 10-day requirement, a second sign-off of the established calendar will be reviewed by another Associate Director or the Director. The Associate Director of Business Systems will ensure staff schedules the systematic disbursements according to the Quarterly Calendar.

For questions or additional information regarding the above please contact me at (510) 987-9844 or email to joao.pires@ucop.edu.



Joao Pires
Director
Costing Policy and Analysis