

University of California

Report on Financial Statements and Expenditures of Federal Awards in Accordance with the Uniform Guidance

For the Year Ended June 30, 2022

<u>Location</u>	<u>EIN - Campus</u>	<u>EIN - Medical Center(s)</u>
Office of the President	94-3067788	
Berkeley	94-6002123	
Davis	94-6036494	68-0334324 68-0344702
Irvine	95-2226406	
Los Angeles	95-6006143	95-4373071
Merced	27-0093858	
Riverside	95-6006142	
San Diego	95-6006144	33-0599494 23-7064656 80-0519972 82-4454688 26-0622624 33-0702174 33-0571597 20-5892682 27-4440873
San Francisco	94-6036493	94-3281657
Santa Barbara	95-6006145	
Santa Cruz	94-1539563	
Children's Hospital & Research Center at Oakland		94-0382330

University of California

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Report of Independent Auditors

To the Regents of the University of California

Report on the Audit of the Financial Statements

Opinions

We have audited the accompanying financial statements of the University of California (the “University”), a component unit of the State of California, the aggregate discretely presented component units, and the aggregate remaining fund information as of and for the years ended June 30, 2022 and 2021, including the related notes, which collectively comprise the University’s basic financial statements as listed in the table of contents.

In our opinion, the accompanying financial statements present fairly, in all material respects, the respective financial position of the University, the aggregate discretely presented component units, and the aggregate remaining fund information as of June 30, 2022 and 2021, 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.

Basis for Opinions

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (US GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditors’ Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the University and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Emphasis of Matter

As discussed in the Notes to the Financial Statements - Significant Accounting Policies, the University changed the manner in which it accounts for leases in 2022. Our opinions are not modified with respect to this matter.

Responsibilities of Management 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, and for 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.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the University’s ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.



Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with US GAAS and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with US GAAS and *Government Auditing Standards*, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit 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, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the University's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Required Supplemental Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on pages 4 through 17 and the required supplementary information on pages 93 through 104 be presented to supplement the basic financial statements. Such information is the responsibility of management, and 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 supplemental 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 audit 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.



Supplemental Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the University's basic financial statements. The accompanying summary schedule of expenditures of federal awards and schedule of expenditures of federal awards (the "Schedules") for the year ended June 30, 2022 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 basic financial statements.

As described in Note B to the Schedules, the accompanying Schedules 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 basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the Schedules are fairly stated, in all material respects, on the basis of accounting described in Note B, in relation to the basic financial statements taken as a whole.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated November 21, 2022 on our consideration of the 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 for the year ended June 30, 2022. 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
November 21, 2022

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, 2022, with selected comparative information for the years ended June 30, 2021 and 2020. 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 (2020, 2021 and 2022, 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), the University of California Retiree Health Benefit Trust (UCRHBT) and custodial external investment pool funds, 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 fiduciary net position and the statements of changes in fiduciary net position, present the financial position and operating activities for UCRS, UCRHBT and the custodial external investment pool funds. 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 encompasses 10 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 10 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. The University's 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 the advancement of medical science and research.

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

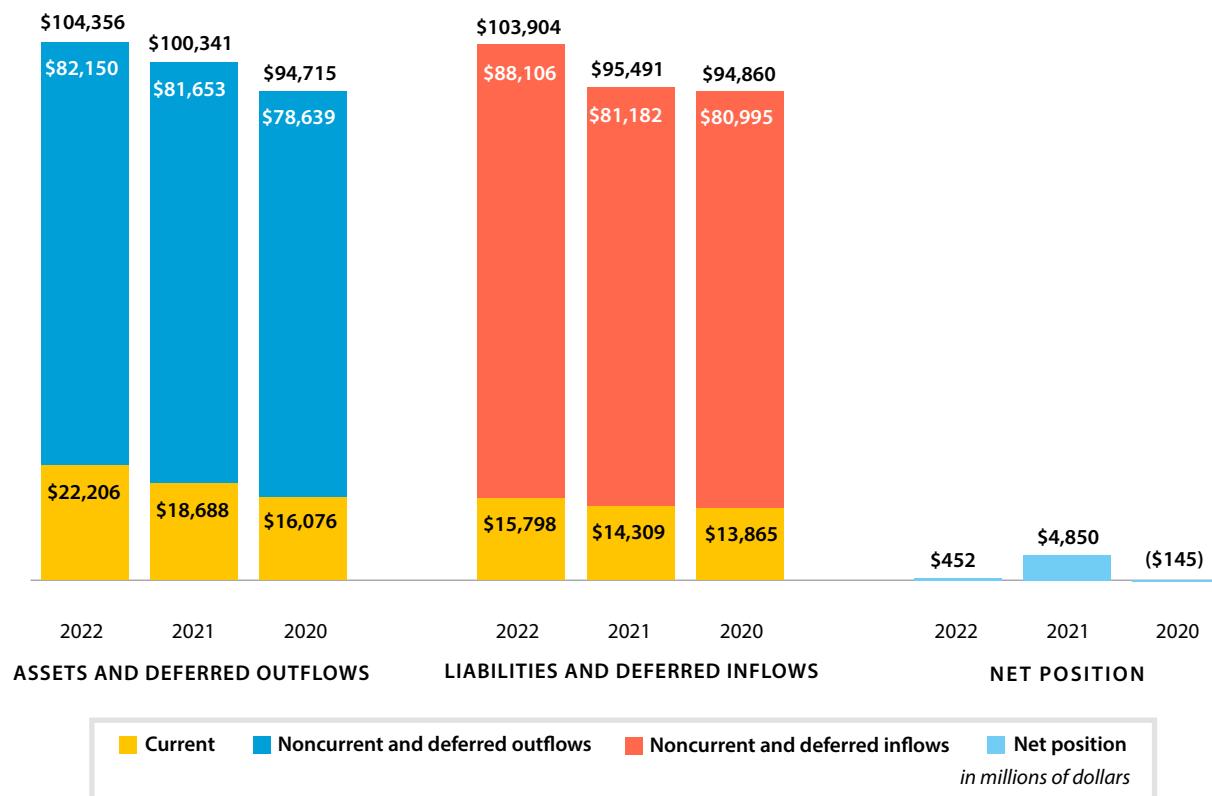
Agriculture and Natural Resources. The Division of Agriculture and Natural Resources is a statewide research and public service organization that serves a large and diverse agricultural community. The division collaborates on research with all campuses and conducts studies at nine research and extension 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, Triad National Security, LLC (Triad) 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

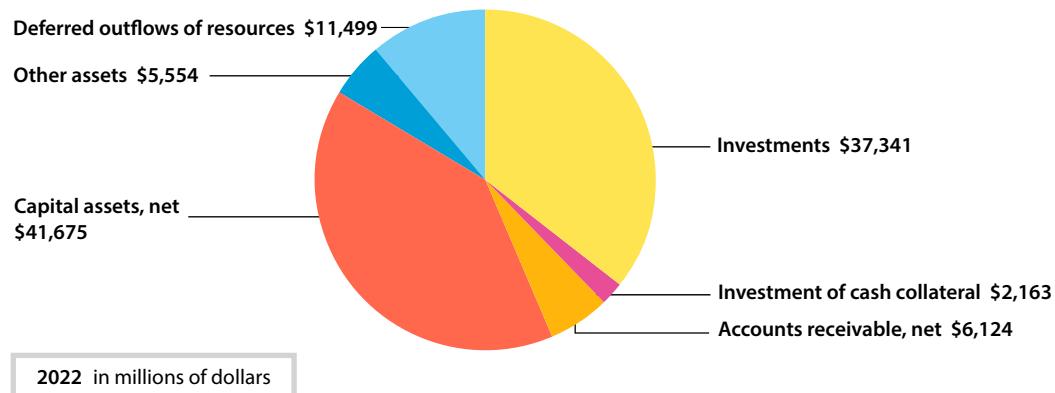
The University implemented a new accounting standard for leases, Government Accounting Standards Board (GASB) Statement No. 87, *Leases* (GASB 87). This accounting standard provides recognition and measurement standards for financings of the right to use an underlying asset. Financial information for 2021 and 2020 has been restated to retroactively apply this new accounting standard.



The statements of net position present the financial position of the University at the end of each fiscal year. They display all of the University's assets, deferred outflows, liabilities, deferred inflows and net position. The difference between assets, deferred outflows, liabilities and deferred inflows is net position. The major components of the statements of net position as of June 30, 2022, 2021 and 2020 are as follows:

(in millions of dollars)	2022	2021	2020
ASSETS			
Investments	\$37,341	\$38,448	\$30,239
Investment of cash collateral	2,163	998	387
Accounts receivable, net	6,124	5,498	5,523
Capital assets, net	41,675	40,335	38,881
Other assets	5,554	5,304	5,064
Total assets	92,857	90,583	80,094
DEFERRED OUTFLOWS OF RESOURCES			
	11,499	9,757	14,622
LIABILITIES			
Debt, including commercial paper	35,741	32,668	29,030
Securities lending collateral	2,163	998	387
Net pension liability	21,403	5,895	21,779
Net retiree health benefits liability	20,172	24,917	23,853
Other liabilities	12,995	13,004	11,985
Total liabilities	92,474	77,482	87,034
DEFERRED INFLOWS OF RESOURCES			
	11,430	18,009	7,826
NET POSITION			
Net investment in capital assets	11,805	13,735	14,397
Restricted:			
Nonexpendable	1,307	1,285	1,263
Expendable	11,527	10,961	8,770
Unrestricted	(24,187)	(21,131)	(24,575)
Total net position	\$452	\$4,850	(\$145)

The University's Assets and Deferred Outflows



The University's total assets and deferred outflows of resources have increased to \$104.4 billion in 2022, compared to \$100.3 billion in 2021 and \$94.7 billion in 2020. Capital assets have increased due to continued investments in facilities in excess of depreciation. Investments decreased in 2022 due to negative financial market returns. Deferred outflows have fluctuated 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 the following investment pools: the Short Term Investment Pool (STIP), the Total Return Investment Pool (TRIP), the Blue and Gold Pool (BGP) 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 enhance returns 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. The University maximizes its use of TRIP while still maintaining sufficient funds in STIP to meet operational and liquidity needs. BGP was created to enhance returns by passively investing funds in the equity and fixed-income markets while still maintaining liquidity. The investment policy for TRIP is balanced between equities and fixed income while the investment policy for BGP is more heavily weighted toward equities. GEP is a balanced portfolio and the primary investment vehicle for individual endowments and funds functioning as endowments.

The University utilizes 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 returns of (7.6) percent in 2022, 33.7 percent in 2021 and 5.0 percent in 2020. BGP had a (5.0) percent return from July 1, 2019 through April 30, 2020, when the pool was liquidated. BGP was restarted on April 1, 2021 and had a positive return of 5.8 percent through June 30, 2021 and (15.2) percent in 2022. TRIP had returns of (11.3) percent, 21.2 percent and 1.7 percent in 2022, 2021 and 2020, respectively. STIP had positive returns of 0.4 percent, 0.8 percent and 2.1 percent in 2022, 2021 and 2020, respectively.

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 continued 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 10 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. The largest capital asset additions in 2022 were related to the construction of housing and research facilities at various campuses and expansion of medical center facilities. The largest capital asset additions in 2021 were related to the construction of housing facilities at various campuses and the continued renovation of facilities for seismic safety. The largest capital asset additions in 2020 were related to the construction of housing facilities at various campuses and the Merced campus expansion, which was completed in 2020. Total additions of capital assets were \$4.0 billion in 2022 as compared to \$4.2 billion in 2021 and \$4.6 billion in 2020.

Other assets

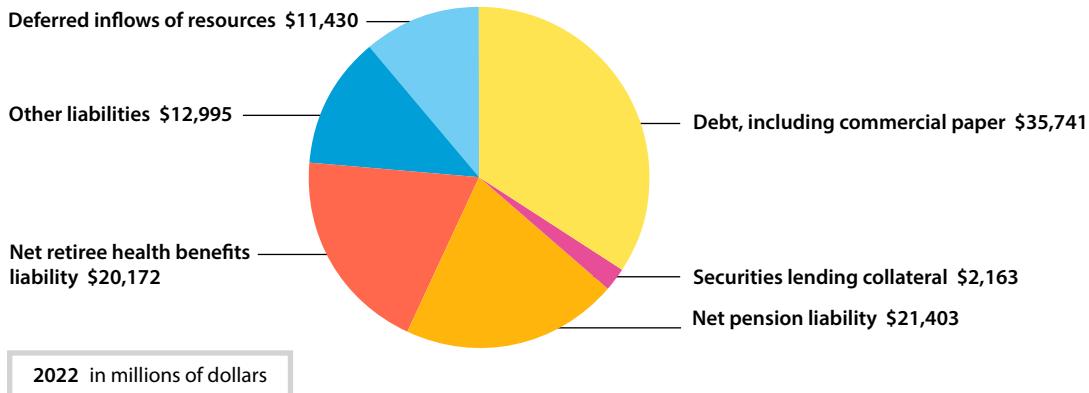
Other assets include cash, investments held by trustees, pledges receivable, notes and mortgages receivable, inventories and receivables from the DOE. In 2022 and 2021, other current assets primarily changed due to reinsurance recoveries.

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 LLNL and LANL, increased by \$30.0 million in 2022 as compared to 2021 and decreased by \$417.3 million in 2021 as compared to 2020.

Deferred outflows of resources

Changes in the fair value of the University's interest rate swaps that are determined to be hedging derivatives, losses on debt refundings, asset retirement obligations and certain changes in the net pension and net retiree health benefits liabilities are reported as deferred outflows of resources. In 2022, deferred outflows increased due to lower than expected investment returns for the UCRP portfolio. In 2021, deferred outflows decreased due to higher than expected investment returns for the UCRP portfolio.

The University's Liabilities and Deferred Inflows



The University's liabilities and deferred inflows of resources increased to \$103.9 billion in 2022 as compared to \$95.5 billion in 2021 and \$94.9 billion in 2020. The change in 2022 was primarily related to the increases in the liability for pension benefits. In 2021, the liability for pension benefits decreased and deferred inflows increased due to favorable market performance in the UCRP investment portfolio.

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 \$3.1 billion and \$3.6 billion in 2022 and 2021, respectively. A summary of the activity follows:

(in millions of dollars)	2022	2021
ADDITIONS TO OUTSTANDING DEBT		
General Revenue Bonds		\$4,029
Medical Center Pooled Revenue Bonds	\$3,000	
Blended Component Unit Revenue Bonds	191	277
Limited Project Revenue Bonds	412	1,132
Financing obligations and leases	302	368
Commercial paper, net	575	
Other borrowings		20
Bond premium, net	165	388
Additions to outstanding debt	4,645	6,214
REDUCTIONS FROM OUTSTANDING DEBT		
Refinancing and prepayments	(612)	(490)
Scheduled principal payments	(808)	(980)
Payments on other borrowings	(45)	(44)
Commercial paper, net		(957)
Amortization of bond premium	(107)	(105)
Reductions from outstanding debt	(1,572)	(2,576)
Net increase in outstanding debt	\$3,073	\$3,638

The University's debt, which is used primarily to finance capital assets, includes \$0.9 billion, \$0.4 billion and \$1.3 billion of commercial paper outstanding at the end of 2022, 2021 and 2020, respectively. Total debt outstanding was \$35.7 billion at the end of 2022 compared to \$32.7 billion and \$29.0 billion at the end of 2021 and 2020, respectively.

In 2022, Medical Center Revenue Bonds of \$0.4 billion were issued for operations and \$2.6 billion to finance the acquisition, construction, improvement and renovation of certain facilities at the University's medical centers. Additionally, \$191.3 million of tax-exempt bonds were issued to finance and refinance the construction of third-party housing facilities. Reductions to outstanding debt include \$852.6 million for scheduled principal payments.

In 2021, General Revenue Bonds of \$2.0 billion were issued for operations and \$2.0 billion to finance certain facilities and projects. Proceeds of \$635.9 million were used to retire bonds. Limited Project Revenue bonds of \$1.1 billion were issued to finance the acquisition, construction, improvement and renovation of certain facilities of the University. Proceeds of \$23.7 million were used to retire bonds. The University sold \$411.7 million of tax-exempt Limited Project Revenue Bonds that were delivered in February 2022 to refinance Limited Project Revenue Bonds that became callable. Additionally, \$277.4 million of tax-exempt bonds were issued to finance and refinance the construction of third-party housing facilities. Reductions to outstanding debt include \$1.0 billion for scheduled principal payments.

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 increased by \$575.0 million in 2022 as compared to 2021 and decreased by \$957.0 million in 2021 compared to 2020. 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 \$700.0 million with major financial institutions for the purpose of providing additional liquidity for certain variable-rate demand bonds, commercial paper and other liquidity needs.

Net pension liability and retiree health benefits

The University has financial responsibility for pension benefits associated with its defined benefit plans and for retiree health benefits. The University's net pension liability was \$21.4 billion, \$5.9 billion and \$21.8 billion in 2022, 2021 and 2020, respectively. The changes were driven by investment returns for the UCRP portfolio. In 2022, market performance was unfavorable compared to expected returns, and in 2021, market performance was favorable compared to expected returns. The total investment rate of return for UCRP was (10.8) percent in 2022, 30.5 percent in 2021 and 1.7 percent in 2020. The discount rate used to estimate the net pension liability was 6.75 percent in 2022, 2021 and 2020, respectively.

LBNL participates in the University's defined benefit pension plan, although the DOE has 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 \$0.6 billion, \$0.6 billion and \$1.0 billion for 2022, 2021 and 2020, respectively, representing the DOE's share of the net pension liability.

The University's net retiree health benefits liability was \$20.2 billion, \$24.9 billion and \$23.9 billion in 2022, 2021 and 2020, respectively. While retiree health benefits are not a legal obligation of the University and can be canceled or modified at any time, accounting standards require the University to recognize a net retiree health benefits liability based on the current practices of providing such benefits. 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 currently sufficient to fund retiree health benefits. Therefore, the Bond Buyer 20-year tax-exempt general obligation municipal-bond index rate is used to discount the retiree health benefits liability. The changes in the net retiree health benefits liabilities in both 2022 and 2021 were primarily driven by the changes in the discount rates. The discount rates as of June 30, 2022, 2021 and 2020 were 3.54 percent, 2.16 percent and 2.21 percent, respectively.

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 LBNL retirees. The University recorded receivables from the DOE of \$708.6 million, \$711.5 million and \$691.0 million for 2022, 2021 and 2020, respectively, representing the DOE's share of the net retiree health benefits liability.

Other liabilities

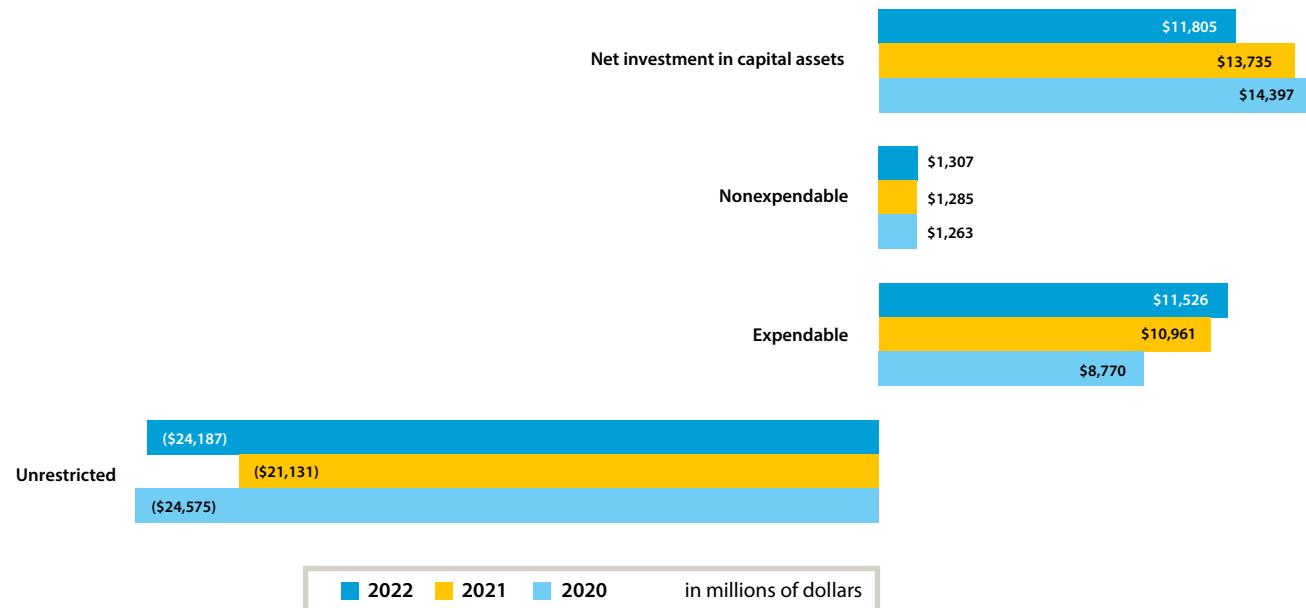
Other liabilities consist of accounts payable, accrued salaries, other employee benefits, unearned revenue, DOE laboratories' liabilities, federal refundable loans, self-insurance liabilities and obligations under split-interest agreements held by the University. The Centers for Medicare & Medicaid Services (CMS) modified the advance payment program for health care providers as part of the Coronavirus Aid, Relief, and Economic Security (CARES) Act, and the medical centers received advances under this program. Outstanding balances are \$88.4 million, \$806.4 million and \$920.3 million as of June 30, 2022, 2021 and 2020, respectively. Accrued salaries changes were due to the timing of payroll and benefit payments. Self-insurance liabilities increased by \$472.7 million and \$654.0 million in 2022 and 2021, respectively, due to increases in claims and changes in estimates.

Deferred inflows of resources

Deferred inflows of resources are related to the University's service concession arrangements, gains on debt refunding, 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. Changes in deferred inflows of resources were primarily due to fluctuations in the net pension liability related to investment market performance and the retiree health liability as a result of changes in the discount rate.

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. The University's net position was \$0.5 billion in 2022 compared to \$4.8 billion in 2021 and \$(0.1) billion in 2020. 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 \$11.8 billion in 2022 compared to \$13.7 billion in 2021 and \$14.4 billion in 2020. To support its growth, the University continues to invest in its physical facilities, and financing with debt is used for a significant portion of the investments. Net investment in capital assets decreased in 2022 by \$1.9 billion due to depreciation and disposals outpacing non-financed capital spending.

Restricted nonexpendable

Restricted nonexpendable net position includes the corpus of the University's permanent endowments as well as minority interests. In 2022 and 2021, 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 its use. Net position may be spent only in accordance with the restrictions placed upon it and may include endowment income and gains, subject to the University's spending policy; support received from gifts, state or federal appropriations; 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

Net position that is not subject to externally imposed restrictions governing its use is 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 unrestricted net position is allocated for academic and research initiatives or programs, for capital projects or for other purposes.

THE UNIVERSITY'S RESULTS OF OPERATIONS

The statements of revenues, expenses and changes in net position present the University's operating results and indicates whether the financial condition has improved or deteriorated. In accordance with 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. A summarized comparison of the operating results for 2022, 2021 and 2020, arranged in a format that matches the revenue supporting the primary activities of the University with the expenses associated with these primary activities, is as follows:

(in millions of dollars)	2022			2021			2020		
	OPERATING	NONOPERATING	TOTAL	OPERATING	NONOPERATING	TOTAL	OPERATING	NONOPERATING	TOTAL
REVENUES									
Student tuition and fees, net	\$5,441		\$5,441	\$5,101		\$5,101	\$5,298		\$5,298
State educational appropriations		\$4,297	4,297		\$3,260	3,260		\$3,686	3,686
Direct government grants		843	843		880	880		684	684
Federal Pell Grants		444	444		607	607		443	443
Grants and contracts, net	7,055		7,055	6,234		6,234	6,249		6,249
Medical centers, net	17,467	40	17,507	15,639	38	15,677	14,170	23	14,193
Educational activities, net	5,351		5,351	4,711		4,711	4,229		4,229
Auxiliary enterprises, net	1,646		1,646	656		656	1,415		1,415
Department of Energy laboratories	1,031		1,031	1,081		1,081	1,083		1,083
Private gifts, net		1,737	1,737		1,572	1,572		1,516	1,516
Other revenues	904	632	1,536	690	724	1,414	999	440	1,439
Revenues supporting primary activities	38,895	7,993	46,888	34,112	7,081	41,193	33,443	6,792	40,235
EXPENSES									
Salaries and wages	19,887		19,887	18,485		18,485	18,427		18,427
Pension benefits	4,338		4,338	2,041		2,041	5,355		5,355
Retiree health benefits	1,238		1,238	1,892		1,892	1,692		1,692
Other employee benefits	4,615		4,615	3,975		3,975	3,593		3,593
Scholarships and fellowships	1,182		1,182	1,120		1,120	1,039		1,039
Supplies and materials	5,361		5,361	4,790		4,790	4,213		4,213
Depreciation and amortization	2,627		2,627	2,624		2,624	2,469		2,469
Department of Energy laboratories	991		991	1,042		1,042	1,076		1,076
Interest expense		1,126	1,126		1,082	1,082		1,004	1,004
Other expenses	7,115		7,115	5,226	22	5,248	5,520	27	5,547
Expenses associated with primary activities	47,354	1,126	48,480	41,195	1,104	42,299	43,384	1,031	44,415
Income (loss) from primary activities	(\$8,459)	\$6,867	(1,592)	(\$7,083)	\$5,977	(1,106)	(\$9,941)	\$5,761	(4,180)
OTHER NONOPERATING ACTIVITIES									
Net appreciation (depreciation) in fair value of investments			(3,149)				5,843		406
Income (loss) before other changes in net position	(4,741)				1,104	42,299	43,384	1,031	44,415
Income (loss) before other changes in net position	(4,741)				1,104	42,299	43,384	1,031	44,415
OTHER CHANGES IN NET POSITION									
State capital appropriations			1			1			(1)
Capital gifts and grants, net			311			228			252
Additions to permanent endowments			31			29			33
Increase (decrease) in net position	(4,398)				4,995			(3,490)	
NET POSITION									
Beginning of year, as previously reported			4,850			(145)			3,329
Cumulative effect of accounting change									16
Beginning of year, as restated			4,850			(145)			3,345
End of year	\$452				\$4,850			(\$145)	

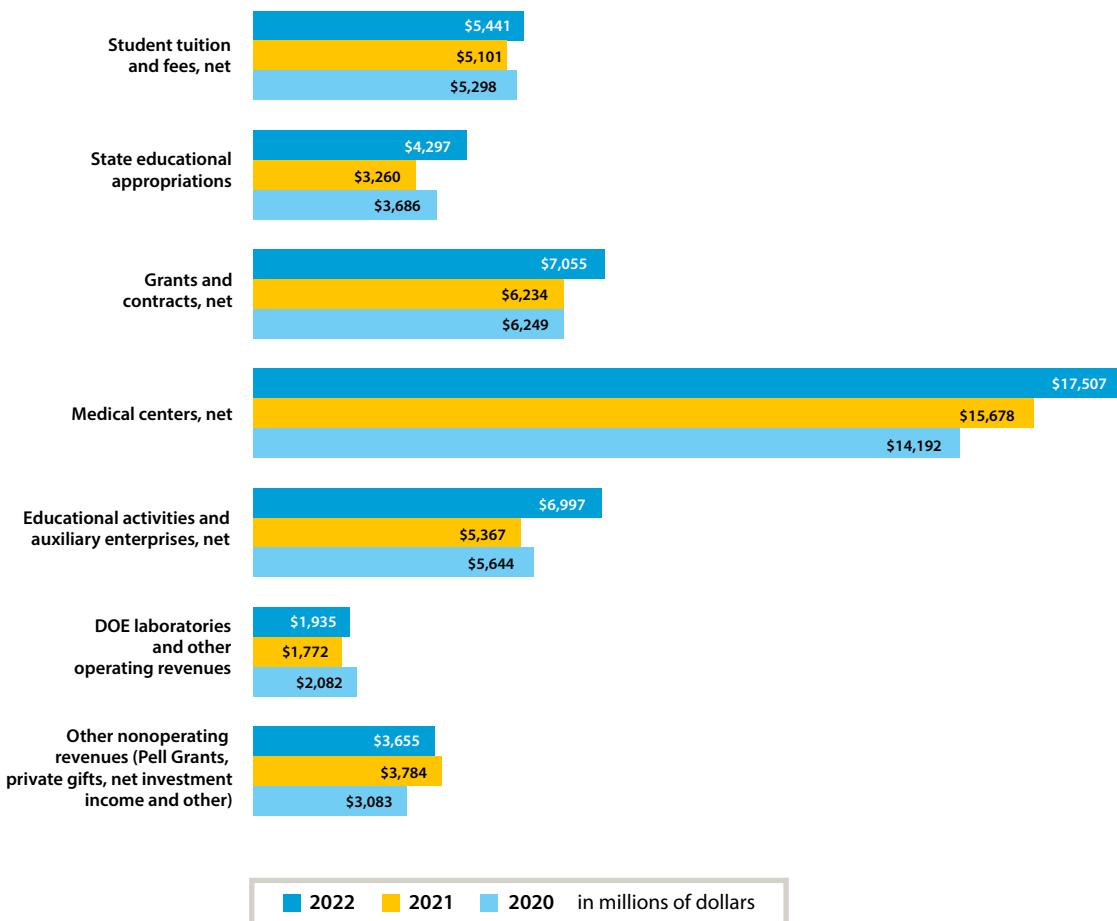
Revenues supporting core activities

Revenues to support the University's primary activities, including those classified as nonoperating revenues, were \$46.9 billion, \$41.2 billion and \$40.2 billion in 2022, 2021 and 2020, respectively. These diversified sources of revenue increased by \$5.7 billion in 2022 and \$1.0 billion in 2021.

The state of California's educational appropriations, in conjunction with student tuition and fees, are the main 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.

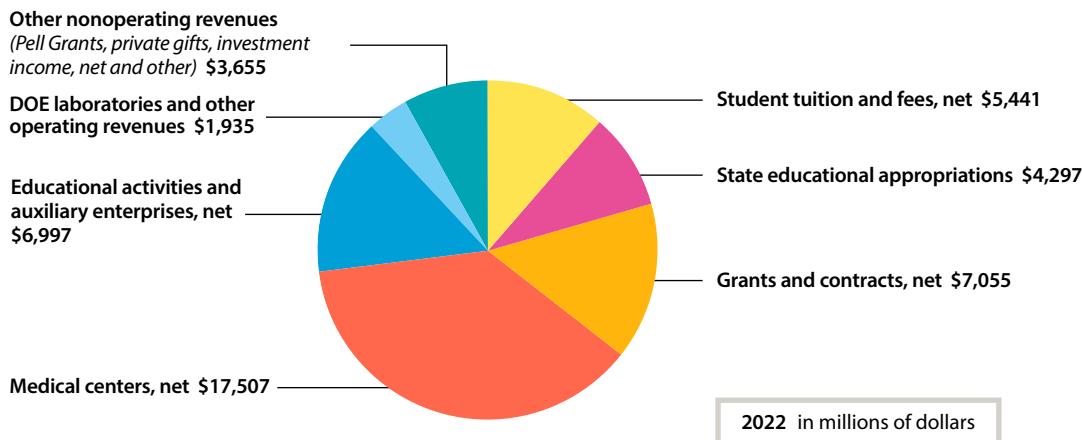
Gifts to the University allow crucial flexibility to faculty for support of their fundamental activities or new academic initiatives. Other significant revenues are from medical centers, educational activities and auxiliary enterprises such as student housing, food service operations and parking.

For 2022, in-person classes resumed in person starting in fall 2021. For 2021, substantially all courses were held online and as a result, occupancy in campus housing was significantly lower than capacity. The growth in certain revenues slowed in 2020 due to the impacts of COVID-19. 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 auxiliary 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 primary activities in 2022 are as follows:



Student tuition and fees, net

Net student tuition and fees were \$5.4 billion, \$5.1 billion and \$5.3 billion in 2022, 2021 and 2020, 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 \$1.4 billion, \$1.4 billion and \$1.3 billion in 2022, 2021 and 2020, respectively. Student tuition and fees, net of scholarship allowances, increased by \$339.8 million in 2022 and decreased by \$(197.3) million in 2021, respectively. Decreases in 2021 were due to the COVID-19 pandemic, and increases reflect campuses' return to full enrollment for 2022.

In 2022, enrollment grew by 3.1 percent, and in 2021, enrollment was flat. Mandatory tuition for resident undergraduates remained the same in 2022 and 2021. Certain graduate students experienced increases in mandatory tuition and fees. Professional degree supplemental tuition varies by discipline; certain increases were approved by the Regents for 2022, 2021 and 2020.

State educational appropriations

Educational appropriations from the state of California were \$4.3 billion, \$3.3 billion and \$3.7 billion in 2022, 2021 and 2020, respectively. State educational appropriations increased in 2022 by \$1.0 billion due to a restoration of state support cut during the prior year, a further base budget increase and new one-time funds for deferred maintenance and other purposes. State educational appropriations decreased in 2021 by \$0.4 billion due to state cuts related to the pandemic.

Direct government grants

In 2022, 2021 and 2020, the University received funds under certain provisions of the American Rescue Plan Act (ARPA) and CARES Act to minimize the impacts of lost revenues and increased expenses related to COVID-19. The campuses received \$642.7 million, \$456.0 million and \$245.0 million in 2022, 2021, and 2020, respectively, in grants to provide emergency financial aid to students and to mitigate the impacts of lost revenue and additional technology expenses associated with moving to online education. The medical centers received \$52.8 million, \$424.1 million and \$438.6 million in 2022, 2021 and 2020, respectively, in CARES Act provider relief funding for lost health care revenues and additional expenses for treating patients with COVID-19. In 2022, the medical centers received designated public hospital grants of \$147.9 million in support of their health care expenditures.

Grants and contracts, net

Revenue from federal, state, private and local government grants and contracts — including an overall facilities and administration cost recovery of \$1.4 billion, \$1.3 billion and \$1.2 billion in 2022, 2021 and 2020, respectively — was \$7.1 billion, \$6.2 billion and \$6.2 billion in 2022, 2021 and 2020, respectively.

In 2022, federal grants and contracts revenue increased \$468.0 million, or 13.1 percent, as compared to 2021. In 2021, federal grants and contracts revenue decreased \$(127.0) million, or (3.4) percent, as compared to 2020. Federal grants and contracts include federal facilities and administrative cost recovery of \$981.0 million, \$912.6 million and \$862.0 million in 2022, 2021 and 2020, respectively. Changes in the federal budget impact the University's revenues from federal grants and contracts. Grants and contracts revenue, including grants for research related to COVID-19 in 2022, 2021 and 2020, is from a variety of federal agencies as indicated below:

<i>(in millions of dollars)</i>	2022	2021	2020
Department of Health and Human Services	\$2,595	\$1,947	\$2,274
National Science Foundation	532	350	456
Department of Education	94	102	84
Department of Defense	312	219	328
National Aeronautics and Space Administration	114	83	89
Department of Energy (excluding national laboratories)	155	126	134
Other federal agencies	247	754	343
Federal grants and contracts net revenue	\$4,049	\$3,581	\$3,708

Medical centers, net

Medical center revenues, net of allowances, increased \$1.8 billion, or 11.7 percent, in 2022 and increased \$1.5 billion, or 10.5 percent, in 2021. Revenue growth in 2022 and 2021 was the result of increases in both inpatient and outpatient volumes.

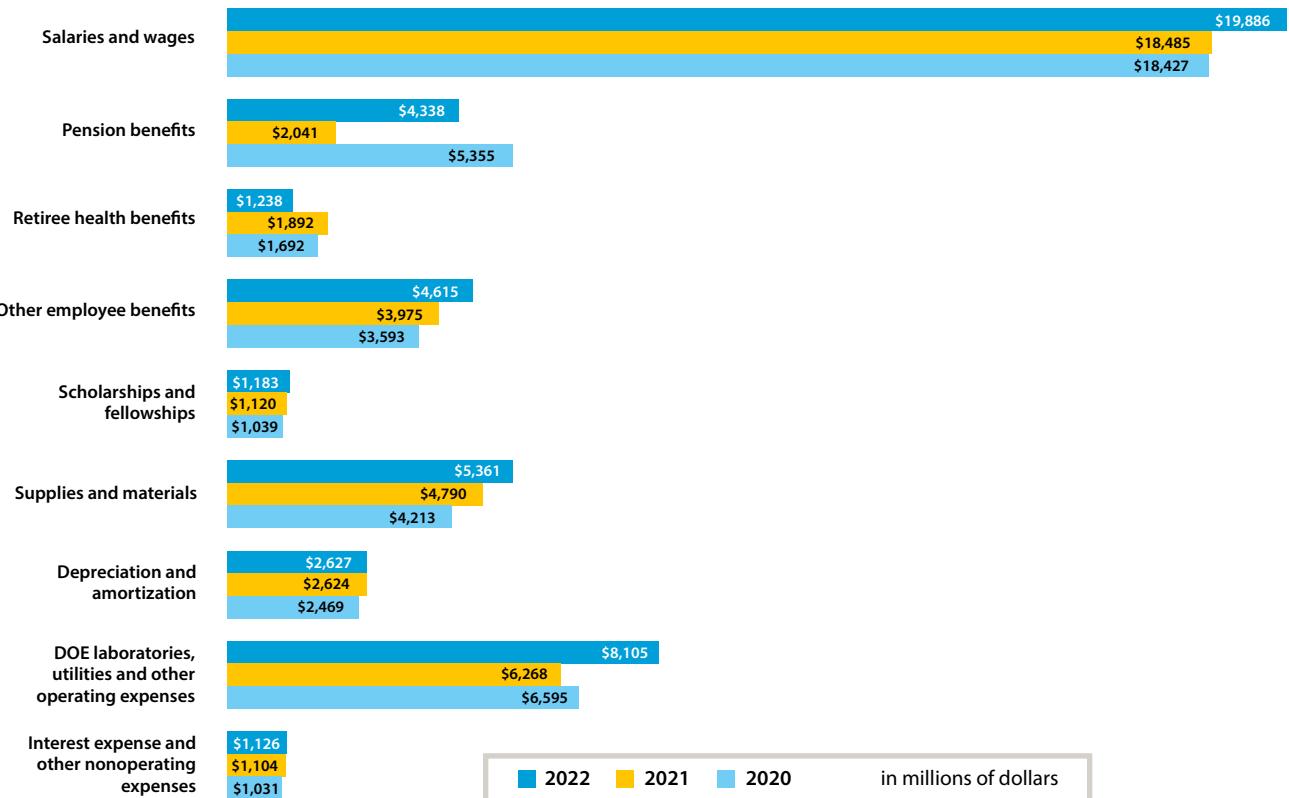
Educational activities and auxiliary enterprises, net

Revenue from educational activities, primarily medical professional fees, net of allowances, increased by \$640.2 million, or 13.6 percent, in 2022 and increased by \$481.9 million, or 11.4 percent, in 2021, due to higher patient volumes.

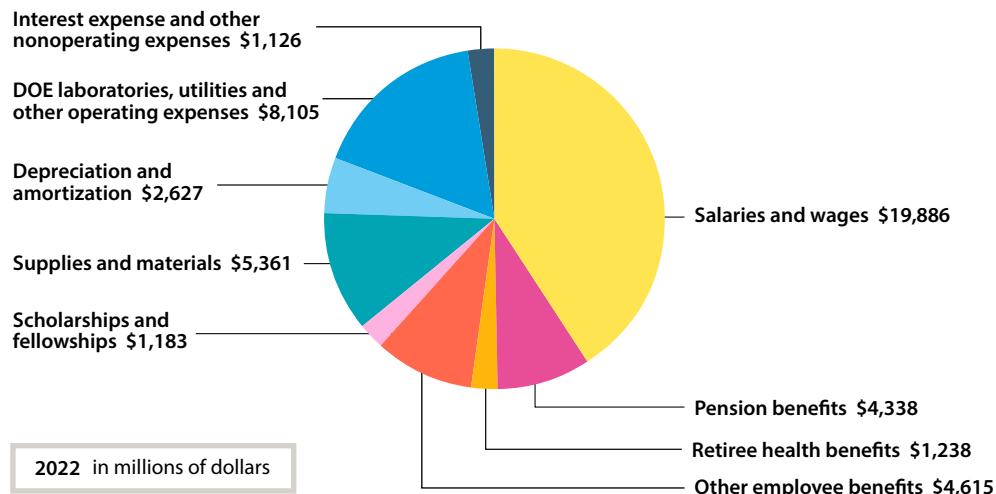
Auxiliary enterprises include housing, food service, parking, bookstores, student centers, unions and child-care centers. Revenue from auxiliary enterprises, net of allowances, increased by \$990.3 million, or 150.9 percent, in 2022 as in-person classes resumed in person starting in fall 2021. Revenues for auxiliary enterprises decreased by \$758.9 million, or 53.6 percent, in 2021 due to state and local limitations on occupancy for housing and dining facilities.

Expenses associated with primary activities

Expenses associated with the University's primary activities, including those classified as nonoperating expenses, were \$48.5 billion, \$42.3 billion and \$44.4 billion in 2022, 2021 and 2020, respectively. These expenses increased in 2022 by \$6.2 billion and decreased in 2021 by \$(2.1) billion. The University's operations continued to grow, principally at the medical centers, and expenses increased consistent with the overall growth in operations. In 2022, pension expenses increased due to lower than expected returns and retiree health benefits expense decreased due to a higher discount rate. In 2021, pension expenses, representing the largest change, decreased by \$3.3 billion due to favorable market performance in the UCRP investment portfolio. Expenses in the various categories are as follows:



Categories of both operating and nonoperating expenses related to the University's primary activities in 2022 are as follows:



Salaries and benefits

Approximately two-thirds of the University's expenses are related to salaries and benefits. There were 180,200 full-time equivalent (FTE) employees in 2022, excluding employees who were associated with LBNL, whose salaries and benefits were included as laboratory expenses, as compared to 168,400 FTEs in 2021. Total salaries and benefits expense increased by 14.0 percent in 2022, primarily driven by the increase in pension expense of \$2.3 billion and salaries and wages of \$1.4 billion. Total salaries and benefits expense decreased by 10.0 percent in 2021, primarily driven by the changes in pension expenses.

In 2022, salaries increased by 7.6 percent, comprised of an increase of 7.0 percent in the number of FTEs and a 0.7 percent increase in the average salary per FTE. In 2022, employee benefits, excluding pension and retiree health benefits, increased by \$640.0 million, or 16.1 percent. Pension expense increased by \$2.3 billion due to lower-than-expected investment returns. Retiree health benefits expense decreased by \$653.2 million or 34.5 percent due to an increase in the discount rate.

In 2021, salaries increased by 0.4 percent, comprised of a decrease of 0.8 percent in the number of FTEs and a 1.2 percent increase in the average salary per FTE. As a means to manage the workforce during the 2021 academic year when virtually all classes were held online and housing occupancy was limited, the University used a variety of programs, such as redeploying workers to other positions, delaying hiring and instituting temporary layoffs, resulting in a slight decrease in FTEs. Employee benefits, excluding pension and retiree health benefits, increased by \$382.4 million, or 10.6 percent, in 2021, since the University continued to provide certain benefits to employees, including those that were temporarily laid off. Pension expense decreased by \$3.3 billion, or 61.9 percent, due to higher-than-expected investment returns. Retiree health benefits expense increased by \$199.4 million or 11.8 percent due to a decrease in the discount rate.

Scholarships and fellowships

The University places a high priority on student financial aid as part of its commitment to affordability. Financial aid in all forms awarded by the University was \$2.9 billion, \$2.6 billion and \$2.5 billion in 2022, 2021 and 2020, respectively. Scholarship allowances which are netted against student tuition and fees were \$1.7 billion, \$1.5 billion and \$1.5 billion in 2022, 2021 and 2020, respectively. Scholarships and fellowships expense, representing payments of financial aid made directly to students and reported as an operating expense were \$1.2 billion, \$1.1 billion and \$1.0 billion in 2022, 2021 and 2020, 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 \$334.0 million, or 12.9 percent, in 2022 as compared to 2021, and by \$51.6 million, or 2.0 percent, in 2021 as compared to 2020. Increases in financial aid, scholarships and fellowships in 2021 slowed since virtually all classes were held online and housing occupancy was limited. Increases in financial aid, scholarships and fellowships in 2022 are consistent with increases in enrollment, tuition, fees and housing costs. The University's practice is to minimize the impact of cost increases on first-generation and low-income students. Financial aid includes direct payments to students of \$333.0 million, \$135.9 million and \$116.4 million in 2022, 2021 and 2020, respectively, related to funds received under the CARES Act.

Supplies and materials

During 2022 and 2021, supplies and materials costs increased by \$571.7 million, or 11.9 percent and \$576.8 million, or 13.7 percent, respectively. The largest increases occurred at the medical centers due to increased patient volumes. In 2022, supply costs also increased for research activities related to increased federal contract and grant activities. In 2021 and 2020, the need for personal protective, laboratory and cleaning supplies due to the outbreak of COVID-19 caused significant increases in supplies expense. 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 GASB's reporting standards, operating losses were \$8.5 billion, \$7.1 billion and \$9.9 billion in 2022, 2021 and 2020, respectively. The operating losses in 2022, 2021 and 2020 were offset by \$6.9 billion, \$6.0 billion and \$5.8 billion, respectively, of net nonoperating revenue that supports primary operating activities of the University. Expenses exceeded revenues associated with primary activities by \$1.6 billion, \$1.1 billion and \$4.1 billion in 2022, 2021 and 2020, respectively. In 2022, the fluctuations have been primarily driven by changes in pension and retiree health benefits expenses. In 2021, the net loss was due to limited housing occupancy and increased expenses as a result of COVID-19, offset by a decrease in pension expense due to favorable market performance in the UCRP investment portfolio.

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 2022, the University recognized net depreciation in the fair value of investments of (\$3.1 billion). In 2021 and 2020, the University recognized net appreciation in the fair value of investments of \$5.8 billion and \$0.4 billion, respectively. The University's portfolio returns fluctuate with the overall performance in the investment markets.

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.

LOOKING FORWARD — FACTORS IMPACTING FUTURE PERIODS

The Governor signed SB-154 on June 27, 2022, and AB-178 on June 30, 2022; together, these bills constitute the 2022-23 State Budget Act. For 2022-23, State funds allocated to the University totaled \$5.1 billion, including \$360.3 million in new, ongoing funding (an increase of approximately 8.9 percent over 2021-22) and \$754.1 million in one-time support. Of this one-time funding, \$125.0 million is intended to address deferred maintenance across the system and \$185.0 million will support climate research. In addition, the Governor's budget reflects the first year of a multi-year compact with the University for sustained ongoing funding. The multi-year compact provides for UC to receive annual 5 percent base budget adjustments through 2026-27, as long as progress is made towards specified policy goals. In addition to the University's main appropriation, the State Budget included \$389.0 million in one-time funds for specific student housing projects through the Higher Education Student Housing Grant Program.

The University's medical centers 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 significant 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.

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.

**UNIVERSITY OF CALIFORNIA
STATEMENTS OF NET POSITION**

At June 30, 2022 and 2021 (in thousands of dollars)	UNIVERSITY OF CALIFORNIA		CAMPUS FOUNDATIONS	
	2022	2021	2022	2021
ASSETS				
Cash and cash equivalents	\$1,080,765	\$678,069	\$575,601	\$336,671
Short-term investments	11,178,413	9,873,974	1,213,678	886,902
Investment of cash collateral	2,112,588	973,402		
Investments held by trustees	428,877	279,160		
Accounts receivable, net	6,124,199	5,497,995	33,325	49,288
Pledges receivable, net	49,408	82,318	480,206	194,543
Current portion of notes and mortgages receivable, net	63,751	61,586		
Inventories	382,683	348,770		
Department of Energy receivable	196,186	122,310		
Other current assets	589,186	770,066	5,590	4,700
Current assets	22,206,056	18,687,650	2,308,400	1,472,104
Investments	26,162,468	28,574,426	12,060,357	13,023,298
Investment of cash collateral	49,932	25,039		
Investments held by trustees	105,424	361,212		
Pledges receivable, net	32,308	43,998	748,236	733,326
Notes and mortgages receivable, net	332,907	357,864	250	250
Department of Energy receivable	1,332,893	1,302,863		
Capital assets, net	41,675,440	40,335,142		
Other noncurrent assets	959,961	896,176	113,261	131,512
Noncurrent assets	70,651,333	71,896,720	12,922,104	13,888,386
Total assets	92,857,389	90,584,370	15,230,504	15,360,490
DEFERRED OUTFLOWS OF RESOURCES				
	11,498,564	9,757,198		
LIABILITIES				
Accounts payable	2,415,451	1,953,783	46,390	17,118
Accrued salaries	1,392,754	1,168,682		
Employee benefits	1,466,430	1,705,246		
Unearned revenue	1,882,436	1,789,123	46,153	65,544
Collateral held for securities lending	2,162,521	998,441		
Commercial paper	945,000	370,000		
Current portion of long-term debt	2,051,945	2,157,824		
Department of Energy laboratories' liabilities	206,827	131,459		
Other current liabilities	3,274,835	4,034,132	152,608	77,573
Current liabilities	15,798,199	14,308,690	245,151	160,235
Federal refundable loans	185,826	197,520		
Self-insurance	1,179,514	983,114		
Obligations under life income agreements	33,784	37,331	133,808	159,425
Long-term debt	32,744,372	30,140,032		
Net pension liability	21,403,045	5,894,952		
Net retiree health benefits liability	20,171,887	24,916,439		
Other noncurrent liabilities	957,282	1,004,439	39,251	23,027
Noncurrent liabilities	76,675,710	63,173,827	173,059	182,452
Total liabilities	92,473,909	77,482,517	418,210	342,687
DEFERRED INFLOWS OF RESOURCES				
	11,430,376	18,009,445	202,841	257,512
NET POSITION				
Net investment in capital assets	11,804,936	13,735,485		
<i>Restricted:</i>				
Nonexpendable: endowments and gifts	1,261,836	1,238,159	6,428,020	5,892,517
Nonexpendable: reserved for minority interests	45,366	46,452		
Expendable	11,526,450	10,960,926	7,191,936	8,042,524
Unrestricted	(24,186,920)	(21,131,416)	989,497	825,250
Total net position	\$451,668	\$4,849,606	\$14,609,453	\$14,760,291

See accompanying notes to financial statements.

UNIVERSITY OF CALIFORNIA
STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

Years ended June 30, 2022 and 2021 (in thousands of dollars)	UNIVERSITY OF CALIFORNIA		CAMPUS FOUNDATIONS	
	2022	2021	2022	2021
OPERATING REVENUES				
Student tuition and fees, net	\$5,440,530	\$5,100,747		
<i>Grants and contracts, net:</i>				
Federal	4,049,495	3,581,367		
State	775,898	573,828		
Private	1,829,799	1,699,115		
Local	400,317	380,060		
Medical centers, net	17,466,956	15,639,398		
Educational activities, net	5,350,956	4,710,758		
Auxiliary enterprises, net	1,646,591	656,282		
Department of Energy laboratories	1,031,233	1,081,254		
Campus foundation private gifts			\$1,980,697	\$1,310,945
Other operating revenues, net	903,906	689,418	791	425
Total operating revenues	38,895,681	34,112,227	1,981,488	1,311,370
OPERATING EXPENSES				
Salaries and wages	19,886,413	18,484,966		
Pension benefits	4,337,794	2,041,008		
Retiree health benefits	1,238,413	1,891,655		
Other employee benefits	4,615,318	3,975,358		
Supplies and materials	5,361,451	4,789,764		
Depreciation and amortization	2,626,612	2,623,858		
Department of Energy laboratories	990,713	1,042,258		
Scholarships and fellowships	1,182,024	1,119,720		
Utilities	463,127	319,104		
Campus foundation grants			1,528,788	1,350,578
Other operating expenses	6,651,594	4,908,071	44,230	39,629
Total operating expenses	47,353,459	41,195,762	1,573,018	1,390,207
Operating income (loss)	(8,457,778)	(7,083,535)	408,470	(78,837)
NONOPERATING REVENUES (EXPENSES)				
State educational appropriations	4,296,909	3,260,441		
State hospital fee grants	39,872	37,797		
Direct government grants	843,341	880,119		
Build America Bonds federal interest subsidies	52,385	53,584		
Federal Pell Grants	443,777	607,356		
Private gifts, net	1,736,613	1,571,402		
<i>Investment income:</i>				
Short term investment pool and other, net	112,827	305,292		
Endowment, net	136,149	196,731		
Securities lending, net	2,530	823		28
Campus foundations			80,969	67,501
Net appreciation (depreciation) in fair value of investments	(3,148,849)	5,842,705	(1,217,490)	3,156,598
Interest expense	(1,126,368)	(1,081,626)		
Gain (loss) on disposal of capital assets	129,800	(22,220)		
Other nonoperating revenues (expenses)	197,975	167,052	41	72
Net nonoperating revenues (expenses)	3,716,961	11,819,456	(1,136,480)	3,224,199
Income (loss) before other changes in net position	(4,740,817)	4,735,921	(728,010)	3,145,362
OTHER CHANGES IN NET POSITION				
Capital gifts and grants	311,160	228,422		
State capital appropriations	1,182	248		
Additions to permanent endowments	30,537	29,294	577,172	525,618
Change in net position	(4,397,938)	4,993,885	(150,838)	3,670,980
NET POSITION				
Beginning of year	4,849,606	(116,505)	14,760,291	11,089,311
Cumulative effect of accounting change		(27,774)		
Beginning of year, restated	4,849,606	(144,279)	14,760,291	11,089,311
End of year	\$451,668	\$4,849,606	\$14,609,453	\$14,760,291

See accompanying notes to financial statements.

UNIVERSITY OF CALIFORNIA
STATEMENTS OF CASH FLOWS

Years ended June 30, 2022 and 2021 (in thousands of dollars)	UNIVERSITY OF CALIFORNIA		CAMPUS FOUNDATIONS	
	2022	2021	2022	2021
CASH FLOWS FROM OPERATING ACTIVITIES				
Student tuition and fees	\$5,427,086	\$5,151,778		
Grants and contracts	6,953,429	6,343,745		
Medical centers	17,298,084	15,317,974		
Educational activities	5,288,573	4,639,453		
Auxiliary enterprises	1,678,827	628,690		
Collection of loans from students and employees	89,744	74,171		
Campus foundation private gifts			\$1,345,547	\$1,022,252
Payments to employees	(20,359,569)	(18,376,888)		
Payments to suppliers and utilities	(11,929,158)	(9,741,229)		
Payments for pension benefits	(2,733,682)	(3,300,304)		
Payments for retiree health benefits	(409,295)	(367,393)		
Payments for other employee benefits	(4,021,009)	(3,270,773)		
Payments for scholarships and fellowships	(1,182,024)	(1,119,720)		
Loans issued to students and employees	(66,952)	(72,319)		
Payments to campuses and beneficiaries			(1,485,497)	(1,431,635)
Other receipts (payments)	(162,688)	1,000,040	80,157	53,601
Net cash used by operating activities	(4,128,634)	(3,092,775)	(59,793)	(355,782)
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES				
State educational appropriations	4,319,931	3,259,181		
Federal Pell Grants	452,963	604,200		
Direct government grants	842,121	880,119		
State hospital fee grants	39,872	37,797		
<i>Gifts received for other than capital purposes:</i>				
Private gifts for endowment purposes	22,813	29,294	505,994	436,514
Other private gifts	1,722,772	1,498,736		
Receipt of retiree health contributions from UCRP	86,342	75,263		
Payment of retiree health contributions to UCRHBT	(96,028)	(76,656)		
Receipts from UCRHBT	404,992	417,946		
Payments for retiree health benefits made on behalf of UCRHBT	(418,025)	(404,939)		
Student direct lending receipts	526,203	475,975		
Student direct lending payments	(525,980)	(478,098)		
Proceeds from debt issuance	400,000	1,975,000		
Proceeds from line of credit			91,000	
Repayment of line of credit			(91,000)	
<i>Commercial paper financing:</i>				
Proceeds from issuance	3,698	20,342		
Payments of principal	(35,682)	(10,454)		
Interest paid on debt	(32,488)	(49,394)		
Other receipts (payments)	115,661	69,471	9,732	(16,101)
Net cash provided by noncapital financing activities	7,829,165	8,323,783	515,726	420,413
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES				
<i>Commercial paper financing:</i>				
Proceeds from issuance	669,872	683,038		
Payments of principal	(62,888)	(1,649,926)		
Interest paid	(2,257)	(2,194)		
State capital appropriations	1,383			
Build America Bonds federal interest subsidies	33,570	58,848		
Capital gifts and grants	234,528	151,644		
Proceeds from debt issuance	3,453,201	3,563,608		
Proceeds from the sale of capital assets	1,816	6,851		
Purchase of capital assets	(3,306,809)	(3,413,213)		
Refinancing or prepayment of outstanding debt	(611,762)	(439,162)		
Scheduled principal paid on debt	(852,590)	(1,024,363)		
Interest paid on debt	(1,103,478)	(1,111,509)		
Other receipts	72,566	50,513		
Net cash used by capital and related financing activities	(1,472,848)	(3,125,865)		

See accompanying notes to financial statements.

UNIVERSITY OF CALIFORNIA
STATEMENTS OF CASH FLOWS *continued*

Years ended June 30, 2022 and 2021 (in thousands of dollars)	UNIVERSITY OF CALIFORNIA		CAMPUS FOUNDATIONS	
	2022	2021	2022	2021
CASH FLOWS FROM INVESTING ACTIVITIES				
Proceeds from sales and maturities of investments	\$156,081,577	\$163,447,964	\$2,533,632	\$2,398,743
Purchase of investments	(158,112,202)	(165,729,965)	(2,831,462)	(2,548,181)
Investment income, net of investment expenses	205,640	499,177	80,827	63,629
Net cash used by investing activities	(1,824,985)	(1,782,824)	(217,003)	(85,809)
Net change in cash and cash equivalents	402,698	322,319	238,930	(21,178)
Cash and cash equivalents, beginning of year	678,067	355,748	336,671	357,849
Cash and cash equivalents, end of year	\$1,080,765	\$678,067	\$575,601	\$336,671
RECONCILIATION OF OPERATING LOSS TO NET CASH USED BY OPERATING ACTIVITIES				
Operating income (loss)	(\$8,457,778)	(\$7,083,535)	\$408,470	(\$78,837)
<i>Adjustments to reconcile operating loss to net cash used by operating activities:</i>				
Depreciation and amortization expense	2,626,612	2,623,858		
Noncash gifts			(319,875)	(206,016)
Allowance for uncollectible accounts	284,277	276,712	13,949	9,444
Loss on impairment of capital assets	50,496	11,504		
<i>Changes in assets and liabilities:</i>				
Investments held by trustees	4,488	(16,915)	(5,766)	(656)
Accounts receivable	(906,741)	(917,740)	344	(88)
Pledges receivable			(315,236)	(96,836)
Inventories	(33,913)	(8,412)		
Other assets	200,960	(386,586)	71,092	(25,518)
Accounts payable	350,980	(111,894)	28,581	(1,743)
Accrued salaries	224,071	(361,669)		
Employee benefits	(252,170)	952,892		
Unearned revenue	45,228	124,268	448	49,568
Department of Energy	(28,538)	442,870		
Self-insurance	472,747	654,025		
Obligations under life income agreements			(5,426)	(6,010)
Net pension liability	1,539,712	(1,273,915)		
Net retiree health benefits liability	748,675	1,430,560		
Other liabilities	(997,740)	551,202	63,626	910
Net cash used by operating activities	(\$4,128,634)	(\$3,092,775)	(\$59,793)	(\$355,782)
SUPPLEMENTAL NONCASH ACTIVITIES INFORMATION				
Capital assets acquired through leases	\$354,914	\$312,387		
Capital assets acquired with a liability at year end	57,734	143,990		
Change in fair value of interest rate swaps classified as hedging derivatives	65,117	105,762		
Gifts of capital assets	73,646	76,779	\$4,851	
Other noncash gifts	61,743	21,034	318,803	\$212,100
Proceeds from issuance of blended component unit revenue bonds deposited with trustees	216,462	314,676		
Beneficial interests in irrevocable split-interest agreements administered by third parties	2,563	14,673	12,805	22,944
Noncash gifts for University-administered irrevocable split-interest agreements			14,820	6,467

See accompanying notes to financial statements.

**UNIVERSITY OF CALIFORNIA
STATEMENTS OF FIDUCIARY NET POSITION**

At June 30, 2022 and 2021 (in thousands of dollars)	UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM (UCRS)		UNIVERSITY OF CALIFORNIA RETIREE HEALTH BENEFIT TRUST (UCRHBТ)		TOTAL UCRS AND UCRHBТ — PENSION AND RETIREE HEALTH BENEFITS TRUST FUNDS	
	2022	2021	2022	2021	2022	2021
ASSETS						
Investments	\$109,139,801	\$124,576,493	\$164,240	\$148,451	\$109,304,041	\$124,724,944
Participants' interests in mutual funds	2,012,040	2,406,949			2,012,040	2,406,949
Investment of cash collateral	10,400,999	9,369,192			10,400,999	9,369,192
Participant 403(b) loans	195,668	188,974			195,668	188,974
Accounts receivable:						
Contributions from University and affiliates	194,140	176,848	29,889	37,894	224,029	214,742
Investment income	76,181	87,559			76,181	87,559
Security sales and other	692,710	383,141	167	9	692,877	383,150
Prepaid insurance premiums			2,563	2,642	2,563	2,642
Total assets	122,711,539	137,189,156	196,859	188,996	122,908,398	137,378,152
LIABILITIES						
Payable to University			17,385	17,375	17,385	17,375
Payable for securities purchased	190,619	551,640			190,619	551,640
Member withdrawals, refunds and other payables	758,163	694,424			758,163	694,424
Collateral held for securities lending	10,400,999	9,369,192			10,400,999	9,369,192
Total liabilities	11,349,781	10,615,256	17,385	17,375	11,367,166	10,632,631
NET POSITION HELD IN TRUST						
Members' defined benefit plan benefits	81,428,052	91,826,002			81,428,052	91,826,002
Participants' defined contribution plan benefits	29,933,706	34,747,898			29,933,706	34,747,898
Retiree health benefits			179,474	171,621	179,474	171,621
Total net position held in trust	\$111,361,758	\$126,573,900	\$179,474	\$171,621	\$111,541,232	\$126,745,521

See accompanying notes to financial statements.

UNIVERSITY OF CALIFORNIA
STATEMENTS OF FIDUCIARY NET POSITION *continued*

	CUSTODIAL EXTERNAL INVESTMENT POOL FUNDS	
	2022	2021
<i>At June 30, 2022 and 2021 (in thousands of dollars)</i>		
ASSETS		
Investments	\$457,450	\$521,389
Total assets	457,450	521,389
NET POSITION		
Custodial external investment pool funds	457,450	521,389
Total net position	\$457,450	\$521,389

See accompanying notes to financial statements.

UNIVERSITY OF CALIFORNIA
STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION

Years ended June 30, 2022 and 2021 (in thousands of dollars)	UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM (UCRS)		UNIVERSITY OF CALIFORNIA RETIREE HEALTH BENEFIT TRUST (UCRHTB)		TOTAL UCRS AND UCRHTB — PENSION AND RETIREE HEALTH BENEFITS TRUST FUNDS	
	2022	2021	2022	2021	2022	2021
ADDITIONS						
<i>Contributions:</i>						
Members and employees	\$3,016,947	\$2,808,088			\$3,016,947	\$2,808,088
University	2,992,564	2,807,763	\$355,137	\$350,774	3,347,701	3,158,537
Total contributions	6,009,511	5,615,851	355,137	350,774	6,364,648	5,966,625
<i>Investment income (expense), net:</i>						
Net appreciation (depreciation) in fair value of investments	(16,450,328)	25,738,318			(16,450,328)	25,738,318
Interest, dividends and other investment income	1,762,099	2,985,731	345	208	1,762,444	2,985,939
Securities lending income	40,940	48,452			40,940	48,452
Securities lending fees and rebates	(24,935)	(10,918)			(24,935)	(10,918)
Net investment income (loss)	(14,672,224)	28,761,583	345	208	(14,671,879)	28,761,791
Total additions, net	(8,662,713)	34,377,434	355,482	350,982	(8,307,231)	34,728,416
DEDUCTIONS						
<i>Benefit payments:</i>						
Retirement payments	3,181,330	2,997,875			3,181,330	2,997,875
Member withdrawals	173,892	159,048			173,892	159,048
Cost-of-living adjustments	683,885	642,027			683,885	642,027
Lump sum cash-outs	403,805	409,429			403,805	409,429
Preretirement survivor payments	58,363	56,132			58,363	56,132
Disability payments	26,717	30,583			26,717	30,583
Death payments	9,493	8,566			9,493	8,566
Participant withdrawals	1,923,293	1,675,914			1,923,293	1,675,914
Total benefit payments	6,460,778	5,979,574			6,460,778	5,979,574
<i>Insurance premiums:</i>						
Insured plans		136,317	128,743		136,317	128,743
Self-insured plans		175,189	174,070		175,189	174,070
Medicare Part B reimbursements		31,692	28,997		31,692	28,997
Total insurance premiums, net		343,198	331,810		343,198	331,810
<i>Other deductions:</i>						
Plan administration and other expenses	88,651	68,896	4,431	4,369	93,082	73,265
Total other deductions	88,651	68,896	4,431	4,369	93,082	73,265
Total deductions	6,549,429	6,048,470	347,629	336,179	6,897,058	6,384,649
Change in net position held in trust	(15,212,142)	28,328,964	7,853	14,803	(15,204,289)	28,343,767
NET POSITION HELD IN TRUST						
Beginning of year	126,573,900	98,244,936	171,621	156,818	126,745,521	98,401,754
End of year	\$111,361,758	\$126,573,900	\$179,474	\$171,621	\$111,541,232	\$126,745,521

See accompanying notes to financial statements.

UNIVERSITY OF CALIFORNIA
STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION *continued*

	CUSTODIAL EXTERNAL INVESTMENT POOL FUNDS	
At June 30, 2022 and 2021 (in thousands of dollars)	2022	2021
ADDITIONS		
Contributions	\$97,438	\$181,947
Net appreciation in fair value of investments	10,681	6,928
Interest, dividends and other investment income	1,401	3,643
Total additions	109,520	192,518
DEDUCTIONS		
Withdrawals	173,459	95,765
Total deductions	173,459	95,765
Change in net position	(63,939)	96,753
NET POSITION		
Beginning of year	521,389	424,636
End of year	\$457,450	\$521,389

See accompanying notes to financial statements.

UNIVERSITY OF CALIFORNIA

Notes to Financial Statements

Years ended June 30, 2022 and 2021

1. ORGANIZATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

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) are 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

The University's financial statements include the 10 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 have certain oversight responsibilities for these organizations. 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.

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 are the sole corporate and voting member of Children's Hospital & Research Center Oakland (CHRCO), a private, not-for-profit Internal Revenue Code section 501(c)(3) corporation. Children's Hospital & Research Center Foundation, a not-for-profit 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. 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 are determined to be financially accountable for the organization. These include legally separate organizations that provide research and housing services entirely, or almost entirely, to the University or otherwise exclusively, or almost exclusively, to benefit the University.

The University has 11 legally separate, tax-exempt, affiliated 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 GASB requirements as discretely presented component units of the University.

Specific assets and liabilities and all revenues and expenses associated with 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 have fiduciary responsibility for the 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): 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 UC RS statements of fiduciary net position and changes in fiduciary net position are shown as a fiduciary activity in the University's financial statements.

The Regents also have fiduciary responsibility for the UCRHBT. As a result, UCRHBT's statements of fiduciary net position and changes in fiduciary net position are shown as a fiduciary activity 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 to accumulate funds on a tax-exempt basis under an arrangement segregated from University assets. The Regents serve as Trustee of UCRHBT and have the authority to amend or terminate the trust.

Basis of Presentation

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 GASB.

Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows. As a public institution, the University is considered a special-purpose government engaged primarily in a business-type activity under the provisions of GASB Statements Nos. 34, *Basic Financial Statements — and Management's Discussion and Analysis — for State and Local Governments* and 35, *Basic Financial Statements — and Management's Discussion and Analysis — for Public Colleges and Universities — an amendment of GASB Statement No. 34*. Business type activities are those that are financed in whole or in part by fees charged to external parties for goods or services.

Adoption of Accounting Pronouncement

In June 2017, the GASB issued Statement No. 87, *Leases* (GASB 87), effective for the University's fiscal year beginning July 1, 2021. 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 GASB 87, 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 those leases lasting a maximum of 12 months at inception, including any options to extend, financed purchases, leases of assets that are investments and certain regulated leases.

The adoption of GASB 87 did not result in any adjustments to the financial statements of the campus foundations, UCRS or UCRHBT. The effects of adopting GASB 87 in the University's financial statements for the year ended June 30, 2021, were as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA		
	AS PREVIOUSLY REPORTED	EFFECT OF ADOPTION OF GASB 87	AS RESTATED
STATEMENT OF NET POSITION			
ASSETS			
Accounts receivable, net	\$5,464,884	\$33,111	\$5,497,995
Current assets	18,654,539	33,111	18,687,650
Capital assets, net	37,996,479	2,338,663	40,335,142
Other noncurrent assets	340,339	555,837	896,176
Noncurrent assets	69,002,220	2,894,500	71,896,720
Total assets	87,656,759	2,927,611	90,584,370
LIABILITIES			
Accounts payable	1,953,877	(94)	1,953,783
Unearned revenue	1,789,410	(287)	1,789,123
Current portion of long-term debt	1,840,330	317,494	2,157,824
Other current liabilities	4,027,442	6,690	4,034,132
Current liabilities	13,984,887	323,803	14,308,690
Long-term debt	28,013,746	2,126,286	30,140,032
Other noncurrent liabilities	1,021,623	(17,184)	1,004,439
Noncurrent liabilities	61,064,725	2,109,102	63,173,827
Total liabilities	75,049,612	2,432,905	77,482,517
DEFERRED INFLOWS OF RESOURCES	17,434,250	575,195	18,009,445
NET POSITION			
Net investment in capital assets	13,848,413	(112,928)	13,735,485
Unrestricted net position	(21,163,855)	32,439	(21,131,416)
Total net position	\$4,930,095	(\$80,489)	\$4,849,606

UNIVERSITY OF CALIFORNIA			
(in thousands of dollars)	AS PREVIOUSLY REPORTED	EFFECT OF ADOPTION OF GASB 87	AS RESTATED
STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION			
OPERATING REVENUES			
Other operating revenues, net	\$740,514	(\$51,096)	\$689,418
Total operating revenues	34,163,323	(51,096)	34,112,227
OPERATING EXPENSES			
Supplies and materials	4,790,360	(596)	4,789,764
Depreciation and amortization	2,320,064	303,794	2,623,858
Other operating expenses	5,239,287	(331,216)	4,908,071
Total operating expenses	41,223,780	(28,018)	41,195,762
Operating loss	(7,060,457)	(23,078)	(7,083,535)
NONOPERATING REVENUES (EXPENSES)			
Interest expense	(990,646)	(90,980)	(1,081,626)
Loss on disposal of current assets	(21,270)	(950)	(22,220)
Other nonoperating revenues	104,759	62,293	167,052
Net nonoperating revenues	11,849,093	(29,637)	11,819,456
Income before other changes in net position	\$4,788,636	(\$52,715)	(\$4,735,921)
STATEMENT OF CASH FLOWS			
CASH FLOWS FROM OPERATING ACTIVITIES			
Payments to suppliers and utilities	(\$10,073,078)	\$331,849	(\$9,741,229)
Other receipts	1,051,136	(51,096)	1,000,040
Net cash used by operating activities	(3,373,528)	280,753	(3,092,775)
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES			
Scheduled principal paid on debt and leases	(780,891)	(243,472)	(1,024,363)
Interest paid on debt and leases	(1,023,713)	(87,796)	(1,111,509)
Other receipts		50,513	50,513
Net cash used by capital and related financing activities	(2,845,110)	(280,755)	(3,125,865)
RECONCILIATION OF OPERATING LOSS TO NET CASH USED BY OPERATING ACTIVITIES			
Operating loss	(7,060,457)	(23,078)	(7,083,535)
Depreciation and amortization expense	2,320,064	303,794	2,623,858
Accounts payable	(111,817)	(77)	(111,894)
Unearned revenue	123,981	287	124,268
Other liabilities	551,374	(172)	551,202
Net cash used by operating activities	(\$3,373,528)	280,753	(3,092,775)
SUPPLEMENTAL NONCASH ACTIVITIES INFORMATION			
Capital assets acquired through leases	\$7,229	\$305,158	\$312,387

Significant Accounting Policies

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 (STIP) as cash equivalents.

Investments. Investments are measured and reported 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 nonexchange traded debt and equity investments are valued using inputs provided by independent pricing services or by brokers/dealers who actively trade in these markets. Certain securities may be valued on a basis of the price provided by a single source.

Investments also include private equities, private credit, absolute return funds, real estate, real asset and certain corporate asset-backed securities. Private equities include venture capital partnerships, buyouts, 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, 2022 and 2021.

Interests in certain direct investments in real estate and private credit 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.

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 NAV 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 statements 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' columns.

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 statements 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 statements of revenues, expenses and changes in net position.

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 lessees, 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 assets and deferred inflows of resources. These beneficial interests 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 assets 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 funded from the University's STIP and from other University sources. Mortgage loans funded by STIP 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 statements of net position. The statements of cash flows exclude the cash flows associated with LBNL other than reimbursements, primarily related to pension and retiree 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 that operate and manage two other DOE laboratories under contracts directly with the DOE. Lawrence Livermore National Security, LLC (LLNS) operates and manages Lawrence Livermore National Laboratory (LLNL). Triad National Security, LLC (Triad) operates and manages Los Alamos National Laboratory (LANL). The University's investments in Triad and LLNS are accounted for using the equity method. Accordingly, the University's statements of net position include its equity interest in Triad and LLNS, adjusted for the equity in undistributed earnings or losses and the statements of revenues, expenses and changes in net position include its equity in the current earnings or losses of Triad 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 are liabilities on the University's statements 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, right-to-use lease assets and other similar arrangements. Leases are recorded at the estimated present value of future lease payments, net of amounts paid in advance and direct costs. Significant additions, replacements, major repairs and renovations to infrastructure and buildings are generally capitalized if the cost equals or exceeds \$35,000 and if they have a useful life of more than one year. Minor renovations are considered operating expenses. Equipment with a cost equal to or 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 useful life of the asset. Assets under leases are amortized over the shorter of the lease term or the estimated useful life of the asset. Leasehold improvements are amortized using the straight-line method over the shorter of the life of the applicable lease or the useful life of the asset.

Estimated useful 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.

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.

Federal refundable loans. Certain loans to students are administered by the University with funding primarily supported by the federal government. The University's statements of net position include both the notes receivable and the related federal refundable loan liability representing federal capital contributions owed.

Bond premium. The bond 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 Fiat Lux 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 independent insurers. 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 supplemental insured coverage for any program in 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 statements 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. At the termination of the agreement, the University's residual interest is recorded as gift revenue in the statements 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, 2022 and 2021 reducing the pollution remediation liability.

Asset retirement obligations. Upon an obligating event, the University records the costs of any expected tangible capital asset retirement obligations using the best estimate of the current value of outlays expected to be incurred. The liabilities are reviewed annually and may change as a result of additional information that refines the estimates. Actual asset retirement obligation costs may vary from these estimates as a result of changes in assumptions such as asset retirement dates, regulatory requirements, technology and costs of labor, materials and equipment. The estimated remaining useful lives of these assets range from 2 to 27 years.

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, increases in the fair value of hedging derivatives, payments received or to be received from service concession arrangements, changes in irrevocable split-interest agreements and certain lease payments to be received as deferred inflows of resources. The University classifies losses on refunding of debt, decreases in the fair value of hedging derivatives and certain asset retirement obligations as deferred outflows of resources. Gains or losses on refunding of debt are amortized as a component of interest expense over the remaining life of the old debt, or the new debt, whichever is shorter. Asset retirement obligations are recognized over the remaining useful life of the related asset. Revenues from split interest agreements are recognized when the resources become available to spend. Lease revenues are recognized over the lease term.

Changes in the net pension and net retiree health liabilities not included in expenses 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 or time 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 restricted nonexpendable net position. This includes the University and campus foundation permanent endowment funds.

Also included in restricted 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 restricted 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 statements of revenues, expenses and changes in net position as operating activities. The University's equity in current earnings or losses of Triad and LLNS is also considered operating.

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

Nonoperating revenues and expenses also include state financing appropriations, state hospital fee grants, direct government grants from the American Rescue Plan Act (ARPA), Coronavirus Aid, Relief, and Economic Security Act (CARES Act), Build America Bond federal interest subsidies, net appreciation (or depreciation) in the fair value of investments, interest expense and the gain (loss) on the disposal of capital assets.

The University received grants under certain provisions of the ARPA and CARES Act, reported as nonoperating revenues, to minimize the impacts of lost revenues and increased expenses related to COVID-19. The campuses received grants under the Higher Education Emergency Relief Fund (HEERF) to provide emergency financial aid to students and to mitigate the impacts of lost revenue and additional technology expenses associated with moving to online education. The medical centers and the faculty practices received grants under the CARES Act Provider Relief Fund for lost revenues and health care related expenses related to operational changes to prepare for treating patients with COVID-19.

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 primary 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.

State capital appropriations, capital gifts and grants and gifts for permanent 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 unions 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 statements of revenues, expenses and changes in net position for the years ended June 30 as follows:

(in thousands of dollars)	2022	2021
Student tuition and fees	\$1,438,784	\$1,376,836
Auxiliary enterprises	277,501	69,168
Other operating revenues	19,318	17,947
Scholarship allowances	\$1,735,603	\$1,463,951

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 state grants and contracts 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, 2022, the facilities and administrative cost recovery totaled \$1.4 billion, which consisted of \$981.0 million from federally sponsored programs and \$444.9 million from other sponsors. For the year ended June 30, 2021, the facilities and administrative cost recovery totaled \$1.3 billion, which consisted of \$912.6 million from federally sponsored programs and \$391.9 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 settlements, or as additional information becomes available.

Net pension liability. The University records a 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 have 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 the DOE are included as DOE laboratory revenue in the statements 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 UCRHBT's fiduciary net position. The fiduciary net position and changes in net position of UCRHBT have 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 within the DOE laboratory expense in the statements of revenues, expenses and changes in net position. The contributions from the DOE are included as DOE laboratory revenue in the statements 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 LANL and LLNL current or former employees 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 statements of cash flows. Cash flows resulting from retiree health contributions from retirees are shown as noncapital financing activities in the statements 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 and then remitted 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 its 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.

Custodial external investment pool funds. Custodial funds represent assets held in the University's investment pools on behalf of associated organizations that are not part of the University's financial reporting entity. As a result, these funds are reported as fiduciary activities in the University's financial statements.

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. UCFS 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 May 2019, the GASB issued Statement No. 91, *Conduit Debt Obligations*, effective for the University's fiscal year beginning July 1, 2022. The Statement defines a conduit debt obligation and clarifies the accounting and financial reporting for conduit debt obligations with additional or voluntary commitments by issuers. The University is evaluating the effect that Statement No. 91 will have on its financial statements.

In March 2020, the GASB issued Statement No. 94, *Public-Private and Public-Public Partnerships and Availability Payment Arrangements*, effective for the University's fiscal year beginning July 1, 2022. The Statement provides guidance for financial reporting for public-private and public-public partnership arrangements and availability payment arrangements. The University is evaluating the effect that Statement No. 94 will have on its financial statements.

In May 2020, the GASB issued Statement No. 96, *Subscription-Based Information Technology Arrangements*, effective for the University's fiscal year beginning July 1, 2022. Under this Statement, these arrangements result in a right-to-use intangible asset and a corresponding subscription liability. The University is evaluating the effect that Statement No. 96 will have on its financial statements.

In April 2022, the GASB issued Statement No. 99, *Omnibus 2022*. The Statement addresses issues that have been identified during implementation and application of certain GASB Statements. Upon the issuance of Statement No. 99, The University adopted the requirements related to extension of the use of London Interbank Offered Rate (LIBOR), accounting for Supplemental Nutrition Assistance Program (SNAP) distributions, disclosures of non-monetary transactions, pledges of future revenues by pledging governments, clarification of certain provisions in Statement No. 34, as amended, and terminology updates related to Statement No. 53 and Statement No. 63. The requirements related to leases, public-private and public-public partnerships (PPPs), and subscription-based information technology arrangements (SBITAs) are effective for the University's fiscal year 2023. The requirements related to financial guarantees and the classification and reporting of derivative instruments within the scope of Statement No. 53 are effective for the University's fiscal year 2024. The University is evaluating the effect these requirements will have on its financial statements.

In June 2022, the GASB issued Statement No. 100, *Accounting Changes and Error Corrections* — an amendment of GASB Statement No. 62, effective for the University's fiscal year beginning July 1, 2023. The Statement requires disclosures of descriptive information about accounting changes and error corrections and addresses how information that is affected by a change in accounting principle or error correction should be presented in required supplementary information and supplementary information . The University is evaluating the effect that Statement No. 100 will have on its financial statements.

In June 2022, the GASB issued Statement No. 101, *Compensated Absences*, effective for the University's fiscal year beginning July 1, 2024. The Statement replaces Statement No. 16, *Accounting for Compensated Absences*, to align recognition and measurement guidance for all types of compensated absences under a unified model. This Statement requires that liabilities for compensated absences be recognized for (1) leave that has not been used and (2) leave that has been used but not yet paid in cash or settled through noncash means. The Statement also establishes guidance for measuring a liability for leave that has not been used. As of June 30, 2022, the University reported compensated absences liability of \$1.4 billion. Under Statement No. 101, the University's compensated absences liability is expected to increase. The University is evaluating the full effect that Statement No. 101 will have on its financial statements.

2. 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, 2022 and 2021, the carrying amount of the University's demand deposits, generally held in five nationally recognized banking institutions, was \$1.1 billion and \$678.1 million, respectively, compared to bank balances of \$300.0 million and \$441.7 million, respectively. Deposits in transit and cash awaiting investment are the primary differences. The University's deposits are uninsured and uncollateralized except for bank balances insured by the Federal Deposit Insurance Corporation (FDIC) up to applicable statutory limits.

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 \$25.0 million at June 30, 2022 and \$2.0 million at June 30, 2021.

The carrying amount of the campus foundations' cash and cash equivalents at June 30, 2022 and 2021 was \$575.6 million and \$336.7 million, respectively, compared to bank balances of \$197.7 million and \$69.9 million, respectively. Deposits in transit and cash awaiting investment are the primary differences. Included in cash and cash equivalents are deposits in the University's Short Term Investment Pool of \$377.7 million at June 30, 2022 and \$265.6 million at June 30, 2021, with the remaining uncollateralized bank balances insured by the Federal Deposit Insurance Corporation (FDIC) up to applicable statutory limits. Uncollateralized bank balances include \$96.3 million and \$14.8 million in excess of the FDIC limits at June 30, 2022 and 2021, respectively. The campus foundations do not have exposure to foreign currency risk in their cash and cash equivalents. Included in the campus foundations' cash and cash equivalents is \$13.2 million and \$18.9 million, as of June 30, 2022 and 2021, respectively, held by the respective foundations in STIP.

3. INVESTMENTS

The Regents, as the governing board of the University, 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 STIP, Total Return Investment Pool (TRIP), Blue and Gold Pool (BGP), 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 Committee 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 one year. In addition, for STIP, The Regents have 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.

BGP is an investment pool whose objective is to provide a low-cost, liquid, diversified investment vehicle to invest long-term excess reserves to earn a higher return than would otherwise be expected from STIP and TRIP. To achieve liquidity, transparency and minimal expense, a passive investment strategy in equities and bonds is used.

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 BGP, GEP, UCRS, other investment pools and separate investments includes 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 have 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 \$2.0 billion and \$2.4 billion at June 30, 2022 and 2021, 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 14 days and 45 days at June 30, 2022 and 2021, respectively. The fair values of UCRHBT's investment in this portfolio were \$164.2 million and \$148.5 million at June 30, 2022 and 2021, respectively. These are measured at net asset value as of June 30, 2022 and 2021, 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	
	2022	2021	2022	2021	2022	2021
Equity securities	\$12,242,327	\$12,785,534	\$180,715	\$248,292	\$50,442,124	\$60,670,489
Fixed- or variable-income securities:						
<i>U.S. government-guaranteed:</i>						
U.S. Treasury bills, notes and bonds	5,727,621	6,644,497	247,386	279,428	5,260,326	7,377,790
U.S. Treasury strips	497,890	561,820	233	271	274,119	483,855
U.S. TIPS					1,439,960	1,398,240
U.S. government-backed securities			10,706	15,601	3,000	
U.S. government-backed mortgage-backed securities			7,567	7,973	308,249	660,184
U.S. government-guaranteed	6,225,511	7,206,317	265,892	303,273	7,285,654	9,920,069
<i>Other U.S. dollar-denominated:</i>						
Corporate bonds	1,719,062	1,788,760	185,303	204,319	5,354,358	5,903,746
Commercial paper	4,752,465	4,501,922		13,845		
U.S. agencies	4,366,622		982	998	3,635,557	3,805
U.S. agencies - asset-backed securities	1,424	3,529,540	111,537	112,286	1,203,920	6,095,139
Corporate - asset-backed securities			29,513	32,361	47,678	50,445
Supranational/foreign	870,170	755,934		11,112	2,898,165	4,217,152
Other	3,197	3,391	13,308	22,933	25,123	21,077
Other U.S. dollar-denominated	11,712,940	10,579,547	340,643	397,854	13,164,801	16,291,364
<i>Foreign currency-denominated:</i>						
Government/sovereign			923	997		
Foreign currency-denominated			923	997		
<i>Commingled funds:</i>						
Absolute return funds	1,548,808	2,454,638	2,878,844	3,577,253	2,843,897	4,695,036
Non-U.S. equity funds	2,536,050	2,745,222	886,228	1,126,672	6,824,969	8,042,236
Private equity	4,467,398	4,547,608	2,611,463	2,153,219	8,746,627	7,337,326
Private credit	782,608	350,807			2,127,956	741,901
Money market funds	1,229,944	1,592,914	1,503,702	1,079,924	3,174,888	3,932,056
U.S. equity funds	2,367	2,858	1,453,650	1,843,588	2,489,916	2,974,267
Real estate investment trusts	928,473	179,056	235,052	203,097	3,395,281	2,714,303
Real assets	627,833	605,065	105,822	108,715	3,333,596	3,235,720
U.S. bond funds	4,897	10,349	161,548	159,494	101,827	121,562
Non-U.S. bond funds	79		20,161	24,999	11	14
Balanced funds	316,380	337,111	2,614,349	2,809,317		
Commingled funds	12,444,837	12,825,628	12,470,819	13,086,278	33,038,968	33,794,421
Investment derivatives	(774)	440	9,182	8,474	9,535	5,092
Publicly traded real estate investment trusts	514,950	330,113			2,810,741	2,205,065
Mortgage loans	685,634	768,948				
Real estate	262,717	747,135	279,956	189,855	1,811,614	1,689,993
Other investments	154,642	10,263	442,357	391,776	576,364	
Campus foundations' investments with the University	(4,414,014)	(3,843,090)				
UCRS investment in STIP	(2,030,439)	(2,441,046)				
Custodial investment funds	(457,450)	(521,389)	(716,452)	(716,599)		
Total investments	37,340,881	38,448,400	13,274,035	13,910,200	\$109,139,801	\$124,576,493
Less: Current portion	(11,178,413)	(9,873,974)	(1,213,678)	(886,902)		
Noncurrent portion	\$26,162,468	\$28,574,426	\$12,060,357	\$13,023,298		

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 combined benchmark for STIP is a 50/50 weighted average of the yield on a constant maturity one-year U.S. Treasury Note and U.S. 30-day Treasury Bills.

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

The core fixed-income benchmark for UCSP is the Barclays Capital U.S. Aggregate Bond Index, comprised of 24.0 percent corporate bonds and 30.1 percent mortgage/asset-backed bonds, all of which carry some degree of credit risk. The remaining 45.9 percent is government-issued bonds. The core fixed-income benchmark for TRIP, BGP, UCSP and GEP is the Barclays 1-5 Year US Government/Credit Index, comprised of 25.6 percent corporate bonds and 6.1 percent non-corporate bonds, all of which carry some degree of credit risk. The remaining 68.3 percent is government-issued bonds.

Credit risk is managed primarily by diversifying across issuers. The University monitors and reviews their exposures on an ongoing basis and will maintain a high-quality portfolio within its investment guidelines.

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	
	2022	2021	2022	2021	2022	2021
Fixed- or variable-income securities:						
U.S. government-guaranteed	\$6,225,511	\$7,206,317	\$265,892	\$303,273	\$7,285,654	\$9,920,069
<i>Other U.S. dollar-denominated:</i>						
AAA	339,500	360,316	146,260	153,968	1,366,474	2,213,566
AA	208,034	229,745	2,493	9,396	3,204,668	2,933,174
A	899,402	835,429	16,178	20,682	1,631,884	2,354,594
BBB	1,133,755	1,155,273	22,437	23,100	2,295,010	3,492,354
BB	11,578	6,160	59,925	79,613	1,602,838	1,228,336
B			63,776	56,944	1,312,090	1,048,464
CCC or below			12,931	12,818	386,029	361,782
A1/P1/F1			813	27,404		
Not rated	9,120,671	7,992,624	15,830	13,929	1,365,808	2,659,094
<i>Foreign currency-denominated:</i>						
BBB			923	997		
Commingled funds:						
U.S. bond funds: not rated	4,897	10,349	161,548	159,494	101,827	121,562
Non-U.S. bond funds: not rated	79		20,161	24,999	11	14
Money market funds: not rated	1,229,944	1,592,914	1,503,702	1,079,924	3,174,888	3,932,056
Other investments:						
Mortgage loans: not rated	685,634	768,948				

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 such as private investments, real estate, commingled funds and derivatives 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 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.

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.

At June 30, 2022 and 2021, no single issuer comprised more than 5 percent of investments held by the University, campus foundations or UCRS.

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 1-percentage-point change in the level of interest rates.

Interest rate risk for STIP is managed by constraining the maturity of all individual securities to be less than or equal to 12 months. 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.

The 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	
	2022	2021	2022	2021	2022	2021
Fixed- or variable-income securities:						
<i>U.S. government-guaranteed:</i>						
U.S. Treasury bills, notes and bonds	2.0	1.8	2.8	2.3	4.9	4.9
U.S. Treasury strips	3.0	4.3	12.6	13.9	2.3	3.4
U.S. TIPS					5.2	5.7
U.S. government-backed securities			3.4	4.2	15.2	
U.S. government-backed mortgage-backed securities			0.8	1.1	5.6	4.1
<i>Other U.S. dollar-denominated:</i>						
Corporate bonds	2.9	2.8	2.4	1.3	4.2	4.0
Commercial paper				0.2		
U.S. agencies			0.7	1.7	2.5	18.0
U.S. agencies - asset-backed securities	3.1	0.1	3.2	3.2	5.7	3.0
Corporate - asset-backed securities			0.8	1.0	3.6	4.5
Supranational/foreign	2.7	2.8		0.4	4.6	5.6
Certificates of deposit/time deposits				0.3		
Other	2.2	3.2	1.9	0.5	5.9	10.2
<i>Foreign currency-denominated:</i>						
Government/sovereign			1.4	2.4		
Commingled funds:						
U.S. bond funds	6.3	6.8	4.1	4.4	15.3	6.6
Non-U.S. bond funds			6.4	5.2	7.4	8.5
Money market funds*				0.1		

*Foundation 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:

	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
(in thousands of dollars)	2022	2021	2022	2021	2022	2021
Mortgage-backed securities	\$1,424	\$3,249,589	\$20,678	\$21,454	\$1,488,684	\$6,123,771
Collateralized mortgage obligations			99,158	98,789	59,903	70,108
Other asset-backed securities		279,094	21,297	20,294	13,192	612,642
Variable-rate securities	391,944	2,640,841			926,255	1,293,825
Callable bonds	1,545,443	1,449,150			9,228,606	9,146,369
Structured notes	387,687	316,259			2,135,684	2,171,549
Convertible bonds					8,628	3,304
Total	\$2,326,498	\$7,934,933	\$141,133	\$140,537	\$13,860,952	\$19,421,568

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	
(in years)	2022	2021	2022	2021	2022	2021
Mortgage-backed securities	3.1		4.8	3.5	5.6	3.3
Collateralized mortgage obligations			2.7	2.3	4.6	5.3
Other asset-backed securities		0.2	1.0	0.9	3.0	1.5
Structured notes	2.9	2.8			4.5	4.9
Variable-rate securities	2.9	0.3			3.7	3.8
Callable bonds	2.9	2.9			3.8	3.6
Convertible bonds					1.2	2.6

Foreign Currency Risk

The University's strategic asset allocation policy for TRIP, UCFS 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 strategy. 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, is as follows:

(in thousands of dollars)	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2022	2021	2022	2021	2022	2021
<i>Equity securities:</i>						
Euro	\$948,524	\$1,131,002			\$3,583,138	\$5,172,768
British Pound	352,670	401,081			1,524,885	2,129,972
Japanese Yen	538,725	623,022			2,274,298	3,149,694
Canadian Dollar	254,613	266,181			1,104,907	1,377,797
Swiss Franc	294,989	325,785			1,175,627	1,480,250
Australian Dollar	151,452	166,406			668,166	866,137
Hong Kong Dollar	348,065	420,227			1,411,985	2,018,078
Swedish Krona	104,246	140,529			388,760	613,086
Singapore Dollar	34,868	25,752			146,095	119,842
Danish Krone	64,140	62,832			268,998	338,586
Norwegian Krone	17,904	19,328			86,732	152,645
South Korean Won	142,234	179,124			599,674	1,002,562
Brazilian Real	40,484	54,818			158,875	252,008
Indian Rupee	283,343	154,128	\$18,903	\$9,411	966,269	701,378
Taiwan New Dollar	190,207	195,728			794,538	878,820
South African Rand	36,988	46,791			142,802	204,970
Thai Baht	24,131	24,103			102,019	113,160
Mexican Peso	20,958	20,731			80,980	97,777
Chinese Yuan Renminbi	102,525	53,939			415,950	265,711
Other	169,245	147,947	231	175	745,514	660,250
Subtotal	4,120,311	4,459,454	19,134	9,586	16,640,212	21,595,491
<i>Fixed-income securities:</i>						
Mexican Peso			923	997		
Subtotal			923	997		
<i>Commingled funds (various currency denominations):</i>						
Absolute return funds	3,567		908,232	1,218,401		
Non-U.S. equity funds	2,536,050	2,745,222	886,228	1,126,672	6,824,969	8,042,236
Private equity	151,485	128,740	474,871	389,561	451,283	434,925
Real estate investment trusts			9,324	11,890		
Real assets	20,962	37,336	118,396	98,738	118,786	211,571
Non-U.S. bond funds	79		20,161	24,999	11	14
Balanced funds			216,471	200,883		
Subtotal	2,712,143	2,911,298	2,633,683	3,071,144	7,395,049	8,688,746
<i>Investment derivatives:</i>						
Australian Dollar	6	2			25	(28)
Canadian Dollar	14	80			101	300
British Pound						(137)
Japanese Yen		(1)	(24)	(82)		(225)
Hong Kong Dollar					1	(53)
Euro	8	51	(34)	(122)	684	(92)
Other	14	46	(103)	(272)	29	102
Subtotal	42	178	(161)	(476)	840	(133)
<i>Publicly traded real estate investment trusts:</i>						
Australian Dollar	12,662	14,669			52,726	69,820
Euro	6,739	8,937			29,188	45,609
British Pound	9,916	11,099			40,961	52,757
Japanese Yen	17,801	22,573			65,782	95,822
Singapore Dollar	7,166	6,795			30,363	33,411
Canadian Dollar	4,109	4,797			15,557	17,892
Other	6,925	7,014			27,408	33,798
Subtotal	65,318	75,884			261,985	349,109
Total exposure to foreign currency risk	\$6,897,814	\$7,446,814	\$2,653,579	\$3,081,251	\$24,298,086	\$30,633,213

The University's Investment Pools

The composition of the University's investments at June 30, 2022, by investment pool, is as follows:

UNIVERSITY OF CALIFORNIA						
(in thousands of dollars)	STIP	TRIP	BGP	GEP	OTHER	TOTAL
Equity securities		\$5,351,785	\$1,676,889	\$5,058,582	\$155,071	\$12,242,327
<i>Fixed- or variable-income securities:</i>						
U.S. government-guaranteed	\$1,218,255	3,980,506	320,510	679,849	26,391	6,225,511
Other U.S. dollar-denominated	9,100,236	2,106,958	163,315	332,982	9,449	11,712,940
Commingled funds	982,998	118,256	30,381	10,785,915	527,287	12,444,837
Investment derivatives		59	(97)	(852)	116	(774)
Publicly traded real estate investment trusts		165,911	52,584	294,587	1,868	514,950
Mortgage loans	685,634					685,634
Real estate				231,953	30,764	262,717
Other investments				144,381	10,261	154,642
Subtotal	11,987,123	11,723,475	2,243,582	17,527,397	761,207	44,242,784
Campus foundations' investments with the University	(1,789,434)			(2,412,224)	(212,356)	(4,414,014)
UCRS investment in STIP	(2,030,439)					(2,030,439)
Custodial investment funds	(54,745)	(9,675)		(393,030)		(457,450)
Total investments	\$8,112,505	\$11,713,800	\$2,243,582	\$14,722,143	\$548,851	\$37,340,881

The composition of the University's investments at June 30, 2021, by investment pool, is as follows:

UNIVERSITY OF CALIFORNIA						
(in thousands of dollars)	STIP	TRIP	BGP	GEP	OTHER	TOTAL
Equity securities		\$6,305,913	\$555,431	\$5,772,206	\$151,984	\$12,785,534
<i>Fixed- or variable-income securities:</i>						
U.S. government-guaranteed	\$1,850,553	4,262,861	87,797	982,447	22,659	7,206,317
Other U.S. dollar-denominated	8,024,228	2,077,008	50,647	420,923	6,741	10,579,547
Commingled funds	1,293,562	171,999	4,561	10,850,067	\$505,439	12,825,628
Investment derivatives		67	(4)	362	15	440
Publicly traded real estate investment trusts		179,999	15,827	132,391	1,896	330,113
Mortgage loans	768,948					768,948
Real estate				708,477	38,658	747,135
Other investments					10,263	10,263
Subtotal	11,937,291	12,997,847	714,259	18,866,873	737,655	45,253,925
Campus foundations' investments with the University	(1,273,737)			(2,407,565)	(161,788)	(3,843,090)
UCRS investment in STIP	(2,441,046)					(2,441,046)
Custodial investment funds		(1,067)		(520,322)		(521,389)
Total investments	\$8,222,508	\$12,996,780	\$714,259	\$15,938,986	\$575,867	\$38,448,400

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, 2022 were (11.3) percent for TRIP, (15.2) percent for BGP, (7.6) percent for GEP and (10.8) 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, 2021, were 21.2 percent for TRIP, 5.8 percent from April 1, 2021 to June 30, 2021 for BGP, 33.7 percent for GEP and 30.5 percent for UCRP. The investment return for STIP distributed to participants, representing combined income and realized gains or losses, during the same periods, was 0.4 percent and 0.8 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, BGP, 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 are excluded from the University's statements of net position and included in the campus foundations' statements of net position. Under the accounting policies elected by each campus foundation, certain foundations classify all or a portion of their investment in STIP as cash and cash equivalents, rather than investments. Substantially all of the campus foundations' investments managed by the University 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>	2022	2021
STIP	\$1,789,434	\$1,273,737
GEP	2,412,224	2,407,565
Other investment pools	212,356	161,788
Campus foundations' investments with the University	4,414,014	3,843,090
Classified as cash and cash equivalents by campus foundations	(377,666)	(265,133)
Classified as investments by campus foundations	\$4,036,348	\$3,577,957

Investment income in the University's statements of revenues, expenses and changes in net position is net of income earned by, and distributed to, the campus foundations totaling \$10.7 million and \$17.5 million for the years ended June 30, 2022 and 2021, respectively.

UCRS

UCRS had \$2.0 billion and \$2.4 billion invested in STIP at June 30, 2022 and 2021, respectively. These investments are excluded from the University's statements of net position and are included in UCRS' statements 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 statements of revenues, expenses and changes in net position is net of income earned by, and distributed to, UCRS totaling \$5.0 million and \$7.0 million for the years ended June 30, 2022 and 2021, respectively.

External Investment Pools

STIP and GEP are external investment pools. The composition of their net position at June 30 is as follows:

<i>(in thousands of dollars)</i>	STIP		GEP	
	2022	2021	2022	2021
Investments	\$11,987,123	\$11,937,291	\$17,527,397	\$18,866,873
Investment of cash collateral			745,454	540,595
Securities lending collateral			(745,454)	(540,595)
Other assets, net	4,889,070	4,192,499	700,340	228,133
Net position	\$16,876,193	\$16,129,790	\$18,227,737	\$19,095,006

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.

Other assets include amounts receivable for pension benefits from the campuses and medical centers of \$5.0 billion and \$4.0 billion at June 30, 2022 and 2021, respectively.

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

<i>(in thousands of dollars)</i>	STIP		GEP	
	2022	2021	2022	2021
Net position, beginning of year	\$16,129,790	\$16,500,626	\$19,095,006	\$14,032,020
Investment income	89,785	124,470	59,612	118,331
Net appreciation (depreciation) in fair value of investments	(708)	(17,465)	(1,576,316)	4,727,288
Net transfer to TRIP	(1,825)	(725)		
Transfers to BGP	(1,565,675)	(700,000)		
Participant contributions	2,224,826	222,884	649,435	217,367
Net position, end of year	\$16,876,193	\$16,129,790	\$18,227,737	\$19,095,006

4. SECURITIES LENDING

The University and UCRS jointly participate in a securities lending program as a means to augment income. 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 investments of cash collateral in the statements of net position. At June 30, 2022 and 2021, the securities in these pools had a weighted average maturity of 3 days and 24 days, respectively. The University records a liability for the return of the cash collateral shown as collateral held for securities lending in the statements of net position. Securities collateral received from the borrower is held in investment pools by the University's custodial bank.

At June 30, 2022 and 2021, 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 is as follows:

(in thousands of dollars)	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2022	2021	2022	2021
SECURITIES LENT				
<i>For cash collateral:</i>				
Equity securities:				
Domestic	\$1,398,466	\$476,650	\$7,303,282	\$5,280,611
Foreign	179,530	21,902	985,499	335,378
Fixed-income securities:				
U.S. government-guaranteed	14,656	15,227	208,929	1,551,165
U.S. agency	44,235	9,451	41,733	121,703
Other U.S. dollar-denominated	455,184	452,461	1,491,655	1,848,977
Foreign currency-denominated			15,754	18,828
Lent for cash collateral	2,092,071	975,691	10,046,852	9,156,662
<i>For securities collateral:</i>				
Equity securities:				
Domestic	14	87,578	114	2,311,240
Foreign	51	134,137	3,656	2,124,374
Publicly traded real estate investment trusts:				
Publicly traded real estate investment trust	4		14	
Fixed-income securities:				
U.S. government-guaranteed		20,493		1,581,079
Other U.S. dollar-denominated		58,932		542,913
Foreign currency-denominated				61,512
Lent for securities collateral	69	301,140	3,784	6,621,118
Total securities lent	\$2,092,140	\$1,276,831	\$10,050,636	\$15,777,780
COLLATERAL RECEIVED				
Cash	\$2,162,521	\$998,441	\$10,400,999	\$9,369,192
Total cash collateral received	2,162,521	998,441	10,400,999	9,369,192
Securities	74	323,989	4,056	7,123,510
Total collateral received	\$2,162,595	\$1,322,430	\$10,405,055	\$16,492,702
INVESTMENT OF CASH COLLATERAL				
<i>Fixed-income securities:</i>				
Other U.S. dollar-denominated:				
Corporate bonds	\$17,195	\$26,484	\$82,805	\$248,517
Commercial paper	178,404	64,101	859,132	601,515
Repurchase agreements	1,049,001	587,356	5,038,685	5,511,644
Certificates of deposit/time deposits	919,375	316,207	4,427,382	2,967,232
Supranational/foreign		4,671		43,829
Other liabilities, net*	(1,455)	(378)	(7,005)	(3,545)
Investment of cash collateral	2,162,520	998,441	\$10,400,999	\$9,369,192
Less: Current portion	(2,112,588)	(973,402)		
Noncurrent portion	\$49,932	\$25,039		

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

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 is as follows:

(in thousands of dollars)	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2022	2021	2022	2021
<i>Fixed- or variable-income securities:</i>				
Other U.S. dollar-denominated:				
AAA	\$4,671		\$43,829	
AA-	\$164,341	85,036	\$791,409	797,964
A+	420,084	96,930	2,022,977	909,570
A	191,569	44,589	922,526	418,414
A-1+	110,048		529,952	
A-1 / A-2 / P-1 / F-1	228,932	180,237	1,102,455	1,691,317
Other liabilities, net*: not rated	(1,455)	(378)	(7,005)	(3,545)

* Other 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, banker's 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, as well as 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:

(in thousands of dollars)	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2022	2021	2022	2021
Morgan Stanley & Co. LLC		\$95,822		\$899,178
Goldman Sachs & Co.		51,041		478,960
Citigroup Global Markets Inc.	\$126,211	95,341	\$607,789	894,661
JP Morgan Securities LLC	141,859	79,547	683,140	746,453
Barclays Bank PLC		117,009		1,097,992

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 require 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.

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

<i>(in days)</i>	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2022	2021	2022	2021
<i>Fixed- or variable-income securities:</i>				
Other U.S. dollar-denominated:				
Corporate bonds	1	35	1	35
Commercial paper	6	97	6	97
Repurchase agreements	3	1	3	1
Certificates of deposit/time deposits	5	49	5	49
Supranational/foreign		21		21

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 is as follows:

<i>(in thousands of dollars)</i>	UNIVERSITY OF CALIFORNIA		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM	
	2022	2021	2022	2021
Other asset-backed securities		\$4,671		\$43,829
Variable-rate investments	\$1,741,837	703,547	\$8,388,068	6,601,955
Total	\$1,741,837	\$708,218	\$8,388,068	\$6,645,784

At June 30, 2022 and 2021, the weighted average maturity expressed in days for asset-backed securities was less than 1 day and 21 days, respectively, and for variable-rate investments it was 1 day and 18 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.

5. DERIVATIVE FINANCIAL INSTRUMENTS

The University may use derivatives including futures, forward contracts, options and interest rate swap contracts as a substitute for investing 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 investing 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 statements 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 options 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 statements 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 statements 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 upfront payment. As such, these swaps are each comprised of a derivative instrument, an at-the-market swap that is an effective hedge and a companion borrowing represented by the upfront payment. The unamortized amount of the borrowing under the companion instruments was \$71.7 million and \$76.7 million at June 30, 2022 and 2021, 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

<i>(in thousands of dollars)</i>	NOTIONAL AMOUNT		FAIR VALUE		CHANGES IN FAIR VALUE			
	CATEGORY	2022	2021	CLASSIFICATION	2022	2021	CLASSIFICATION	2022
INVESTMENT DERIVATIVES								
<i>Futures contracts:</i>								
Domestic equity futures:								
Long positions	\$84,248	\$130,918	Investments	(\$835)	\$246	Net appreciation (depreciation)	(\$16,180)	\$31,923
Foreign equity futures:								
Long positions	1,712	5,386	Investments	(108)	61	Net appreciation (depreciation)	286	904
Futures contracts				(943)	307		(15,894)	32,827
<i>Foreign currency exchange contracts:</i>								
Long positions	27	34	Investments			Net appreciation (depreciation)	(5)	(946)
Short positions	3,806	2,011	Investments	114	10	Net appreciation (depreciation)	226	(9,547)
Foreign currency exchange contracts				114	10		221	(10,493)
<i>Other:</i>								
Stock rights/warrants			Investments	55	123	Net appreciation (depreciation)	(281)	115
Other				55	123		(281)	115
Total investment derivatives				(\$774)	\$440		(\$15,954)	\$22,449
CASH FLOW HEDGES								
<i>Effective interest rate swaps:</i>								
Pay fixed, receive variable	\$1,768,060	\$1,772,055	Other (liabilities)	(\$1,178)	(\$154,182)	Deferred inflows (outflows)	\$153,004	\$105,762

University of California Campus Foundations

(in thousands of dollars) CATEGORY	NOTIONAL AMOUNT		FAIR VALUE		CHANGES IN FAIR VALUE			
	2022	2021	CLASSIFICATION	2022	2021	CLASSIFICATION	2022	2021
INVESTMENT DERIVATIVES								
<i>Futures contracts:</i>								
Domestic equity futures:								
Long positions	\$11,747	\$31,736	Investments	\$111	\$441	Net appreciation (depreciation)	(\$3,317)	\$15,713
Foreign equity futures:								
Long positions	5,174	38,804	Investments	(145)	(436)	Net appreciation (depreciation)	(1,806)	14,880
Other:								
Options/swaptions	622	1,532	Investments	8,549	6,483	Net depreciation	(16,613)	(11,675)
Swaps	133,016	145,112	Investments		1,328	Net appreciation (depreciation)	(24,833)	27,160
Custodial investment funds				667	658			
Total investment derivatives				\$9,182	\$8,474		(\$46,569)	\$46,078

University of California Retirement System

(in thousands of dollars) CATEGORY	NOTIONAL AMOUNT		FAIR VALUE		CHANGES IN FAIR VALUE			
	2022	2021	CLASSIFICATION	2022	2021	CLASSIFICATION	2022	2021
INVESTMENT DERIVATIVES								
<i>Futures contracts:</i>								
Domestic equity futures:								
Long positions	\$637,932	\$875,655	Investments	(\$4,501)	\$2,794	Net appreciation (depreciation)	(\$107,392)	\$236,172
Foreign equity futures:								
Long positions	55,322	63,489	Investments	(2,252)	(388)	Net appreciation (depreciation)	(3,806)	12,767
Futures contracts				(6,753)	2,406		(111,198)	248,939
<i>Foreign currency exchange contracts:</i>								
Long positions	12,830	13,196	Investments	(272)	(241)	Net appreciation (depreciation)	(1,730)	361
Short positions	340,938	319,622	Investments	15,422	1,636	Net appreciation (depreciation)	32,903	(8,200)
Foreign currency exchange contracts				15,150	1,395		31,173	(7,839)
<i>Other:</i>								
Stock rights/warrants			Investments	1,138	1,291	Net appreciation (depreciation)	(3,380)	731
Other				1,138	1,291		(3,380)	731
Total investment derivatives				\$9,535	\$5,092		(\$83,405)	\$241,831

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)		NOTIONAL AMOUNT		EFFECTIVE DATE	MATURITY DATE	CASH PAID OR RECEIVED	TERMS	COUNTERPARTY CREDIT RATING	FAIR VALUE	
TYPE	OBJECTIVE	2022	2021						2022	2021
UNIVERSITY OF CALIFORNIA										
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds	\$48,905	\$52,900	2020	2032	None	Pay fixed 3.5897%; receive 58% of Federal Funds Rate + 0.564%	Aa2/A+	(\$3,476)	(\$7,651)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds	31,610	31,610	2020	2030	None	Pay fixed 4.55%; receive 67% of Federal Funds Rate + 0.76%	Aa2/A+	(2,591)	(5,464)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds	38,670	38,670	2020	2037	None	Pay fixed 4.625%; receive 67% of Federal Funds Rate + 0.797%	Aa2/A+	(7,385)	(13,329)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds	54,495	54,495	2020	2043	None	Pay fixed 4.6935%; receive 67% of Federal Funds Rate + 0.861%	Aa2/A+	(14,193)	(25,251)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate General Revenue Bonds	400,000	400,000	2019	2023	None	Pay fixed 1.8982%; receive 70% of Federal Funds Rate + 0.0925%	Aa2/AA-	1,262	(14,516)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate General Revenue Bonds	100,000	100,000	2019	2023	None	Pay fixed 1.9057%; receive 70% of Federal Funds Rate + 0.0925%	Aa2/AA-	306	(3,646)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate General Revenue Bonds	100,000	100,000	2019	2023	None	Pay fixed 1.8980%; receive 70% of Federal Funds Rate + 0.0975%	Aa2/A+	322	(3,617)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds	50,000	50,000	2020	2045-2047	None	Pay fixed 4.741%; receive 67% of Federal Funds Rate + 0.902%	Aa2/A+	(15,203)	(26,641)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate General Revenue Bonds	500,000	500,000	2023	2039	None	Pay fixed 4.741%; receive 70% of Federal Funds Rate	Aa2/AA-	273	(53,492)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate General Revenue Bonds	100,000	100,000	2023	2039	None	Pay fixed 1.899%; receive 70% of Federal Funds Rate	Aa2/A+	952	(9,502)
Pay fixed, receive variable interest rate swap	Hedge of changes in cash flows on variable-rate Medical Center Pooled Revenue Bonds	344,380	344,380	2023	2048	None	Pay fixed 0.926% - 1.238%; receive 70% of Federal Funds Rate - H.15	A2/A, A1/AA-	38,555	8,927
Interest rate swaps, net		\$1,768,060	\$1,772,055						(\$1,178)	(\$154,182)

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 nonperformance by counterparties or unfavorable interest rate movements.

There are no collateral requirements related to the interest rate swap with the \$48.9 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. At June 30, 2022 and 2021, there was no collateral required. Depending on the fair value and the counterparty credit rating for the forward starting swaps related to the Medical Centers Pooled Revenue Bonds, the University may be entitled to receive collateral based on a positive value threshold. At June 30, 2022 and 2021, 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, 2022 and 2021, 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, 2022 and 2021, 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 Federal Funds Rate due to factors affecting the tax-exempt market which do not have a similar effect on the taxable market.

Termination Risk

There is termination risk for interest rate swaps associated with variable-rate bonds in the event of nonperformance 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 \$48.9 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 forward starting swaps, the termination threshold is reached when either the credit quality rating for the underlying Medical Center Pooled Revenue Bonds or the swap counterparty's rating falls below Baa2 or BBB. 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.

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 June 2039 because the hedged debt is scheduled to mature in May 2048.

6. FAIR VALUE

Fair value is defined 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 nongovernmental 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 including pending trades and settlements within various pools 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, 2022:

UNIVERSITY OF CALIFORNIA						
(in thousands of dollars)	TOTAL	QUOTED PRICES IN ACTIVE MARKETS	OTHER OBSERVABLE INPUTS	UNOBSERVABLE INPUTS	NET ASSET VALUE	NOT LEVELED
		(Level 1)	(Level 2)	(Level 3)	(NAV)	
Equity securities	\$12,242,327	\$12,195,282	\$796	\$46,249		
Fixed- or variable-income securities:						
U.S. government-guaranteed	6,225,511		6,225,511			
Other U.S. dollar-denominated	11,712,940		11,712,940			
Commingled funds	12,444,837	1,411,312	55	469,782	\$10,737,769	(\$174,081)
Investment derivatives	(774)	4,479	(5,253)			
Publicly traded real estate investment trusts	514,950	514,950				
Mortgage loans	685,634			685,634		
Real estate	262,717			31,951	230,766	
Other investments	154,642			154,642		
Campus foundations' investments with the University	(4,414,014)					(4,414,014)
UCRS investment in STIP	(2,030,439)					(2,030,439)
Custodial investment funds	(457,450)					(457,450)
Total investments	\$37,340,881	\$14,126,023	\$17,934,049	\$1,388,258	\$10,968,535	(\$7,075,984)
Securities lending investments of cash collateral	\$2,162,520		\$2,163,975			(\$1,455)
Investments held by trustees	\$534,301	\$389,806	\$49,369		\$14,094	\$81,032
Beneficial interests included in other noncurrent assets	\$50,679			\$50,679		

CAMPUS FOUNDATIONS						
(in thousands of dollars)	TOTAL	QUOTED PRICES IN ACTIVE MARKETS	OTHER OBSERVABLE INPUTS	UNOBSERVABLE INPUTS	NET ASSET VALUE	NOT LEVELED
		(Level 1)	(Level 2)	(Level 3)	(NAV)	
Equity securities	\$180,715	\$149,315	\$3,807	\$27,593		
Fixed- or variable-income securities:						
U.S. government-guaranteed	265,892		265,892			
Other U.S. dollar-denominated	340,643		340,589	54		
Foreign currency-denominated	923		923			
Commingled funds	12,470,819	814,996	443	171,451	11,084,638	399,291
Investment derivatives	9,182	(50)	9,232			
Real estate	279,956		902	30,430	248,624	
Other investments	442,357	4,324		2,528	432,497	3,008
Custodial investment funds	(716,452)	(6,756)	(11,050)	(1,810)	(360,453)	(336,383)
Total investments	\$13,274,035	\$961,829	\$610,738	\$230,246	\$11,405,306	\$65,916
Beneficial interests included in other noncurrent assets	\$77,314			\$77,314		

UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM						
(in thousands of dollars)	TOTAL	QUOTED PRICES IN ACTIVE MARKETS	OTHER OBSERVABLE INPUTS	UNOBSERVABLE INPUTS	NET ASSET VALUE	NOT LEVELED
		(Level 1)	(Level 2)	(Level 3)	(NAV)	
Equity securities	\$50,442,124	\$50,442,124				
Fixed- or variable-income securities:						
U.S. government-guaranteed	7,285,654		\$7,285,654			
Other U.S. dollar-denominated	13,164,801	9,096	13,155,705			
Commingled funds	33,038,968	1,206,712	1,115	\$1,043,286	\$30,447,598	\$340,257
Investment derivatives	9,535	21,664	(12,129)			
Publicly traded real estate investment trusts	2,810,741	2,810,741				
Other investments	576,364			379,465	196,899	
Real estate	1,811,614			1,379	1,810,235	
Total investments	\$109,139,801	\$54,490,337	\$20,430,345	\$1,424,130	\$32,454,732	\$340,257
Securities lending investments of cash collateral	\$10,400,999			\$10,407,997		(\$6,998)

The following tables summarize the investments and other assets reported at fair value within the fair value hierarchy as of June 30, 2021:

UNIVERSITY OF CALIFORNIA						
(in thousands of dollars)	TOTAL	QUOTED PRICES IN ACTIVE MARKETS	OTHER OBSERVABLE INPUTS	UNOBSERVABLE INPUTS	NET ASSET VALUE	NOT LEVELED
		(Level 1)	(Level 2)	(Level 3)	(NAV)	
Equity securities	\$12,785,534	\$12,782,877	\$1,159	\$1,498		
Fixed- or variable-income securities:						
U.S. government-guaranteed	7,206,317		7,206,317			
Other U.S. dollar-denominated	10,579,547	146,329	10,433,218			
Commingled funds	12,825,628	1,868,140		454,771	\$10,775,183	(\$272,466)
Investment derivatives	440	123	317			
Publicly traded real estate investment trusts	330,113	330,019			94	
Mortgage loans	768,948			768,948		
Real estate	747,135			38,658	708,477	
Other investments	10,263			10,263		
Campus foundations' investments with the University	(3,843,090)					(3,843,090)
UCRS investment in STIP	(2,441,046)					(2,441,046)
Custodial investment funds	(521,389)					(521,389)
Total investments	\$38,448,400	\$15,127,488	\$17,641,011	\$1,274,138	\$11,483,754	(\$7,077,991)
Securities lending investments of cash collateral	\$998,441		\$998,819			(\$378)
Investments held by trustees	\$640,372	\$427,509	\$95,548		\$37,697	\$79,618
Beneficial interests included in other noncurrent assets	\$53,242			\$53,242		

(in thousands of dollars)	CAMPUS FOUNDATIONS				
	TOTAL	QUOTED PRICES IN ACTIVE MARKETS	OTHER OBSERVABLE INPUTS	UNOBSERVABLE INPUTS	NET ASSET VALUE
		(Level 1)	(Level 2)	(Level 3)	(NAV)
Equity securities	\$248,292	\$231,745	\$8	\$16,539	
Fixed- or variable-income securities:					
U.S. government-guaranteed	303,273		303,273		
Other U.S. dollar-denominated	397,854	762	397,038	54	
Foreign currency-denominated	997		997		
Commingled funds	13,086,278	891,945	546	87,295	\$12,076,418
Investment derivatives	8,474	(35)	8,509		\$30,074
Real estate	189,855		821	47,209	141,825
Other investments	391,776	6,774		2,118	380,877
Custodial investment funds	(716,599)	(4,565)	(12,440)	(1,150)	(338,763)
Total investments	\$13,910,200	\$1,126,626	\$698,752	\$152,065	\$12,260,357
Beneficial interests included in other noncurrent assets		\$86,463		\$86,463	

(in thousands of dollars)	UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM				
	TOTAL	QUOTED PRICES IN ACTIVE MARKETS	OTHER OBSERVABLE INPUTS	UNOBSERVABLE INPUTS	NET ASSET VALUE
		(Level 1)	(Level 2)	(Level 3)	(NAV)
Equity securities	\$60,670,489	\$60,392,777	\$119,308	\$23	\$158,381
Fixed- or variable-income securities:					
U.S. government-guaranteed	9,920,069		9,920,069		
Other U.S. dollar-denominated	16,291,364		16,291,364		
Commingled funds	33,794,421	1,370,945		901,102	31,402,298
Investment derivatives	5,092	1,271	3,821		\$120,076
Publicly traded real estate investment trusts	2,205,065	2,203,467	848		750
Real estate	1,689,993				1,689,993
Total investments	\$124,576,493	\$63,968,460	\$26,335,410	\$901,125	\$33,251,422
Securities lending investments of cash collateral	\$9,369,192		\$9,372,737		(\$3,545)

The following table presents significant terms of certain investments at June 30, 2021:

(in thousands of dollars)		UNIVERSITY OF CALIFORNIA		
INVESTMENT TYPE	FAIR VALUE	UNFUNDED COMMITMENTS	REMAINING LIFE (YEARS)	REDEMPTION TERMS AND RESTRICTIONS
Absolute return	\$1,548,808			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 redemption, after initial lock-up expires, the redemption is available on a rolling basis and requires 30 to 365 days' prior notification.
Private equity	4,467,398	\$1,679,351	0 to 15	Not eligible for redemption.
Private credit	782,608	130,169	0 to 10	Not eligible for redemption and lock-up provisions ranging from 0 to 10 years. For securities not eligible for redemption, the underlying assets are estimated to be liquidated within 3 to 7 years. For securities eligible for redemption, after initial lock-up expires, the redemption is available on a rolling basis and requires 30 to 365 days prior notification before winding down.
Real assets	627,833	224,928	0 to 15	Not eligible for redemption.
Real estate and real estate investment trusts	1,191,190	333,775	0 to 10	Closed-end funds are not eligible for redemption. For open-end funds, redemption is generally on a quarterly basis where the redemption date is the last day of each quarter. Payments of withdrawal requests are generally made within four quarters.
U.S. equity funds	2,367			Redemption generally requires at least 0 to 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 to 120 days.
Non-U.S. equity funds	2,536,050			Redemption requires at least 0 to 180 days prior written notice of intention to terminate as of a date determined by the legal agreement between the investment manager and The Regents. Withdrawals may occur on the last business day of the month and are subject to certain withdrawal guidelines.
Balanced funds	316,380			Redemption requires at least 12 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.

(in thousands of dollars)		CAMPUS FOUNDATIONS		
INVESTMENT TYPE	FAIR VALUE	UNFUNDED COMMITMENTS	REMAINING LIFE (YEARS)	REDEMPTION TERMS AND RESTRICTIONS
Absolute return	\$2,878,844	\$202,190	0 to 1	Generally, lock-up provisions ranging from 0 to 3 years. After initial lock-up expires, redemptions are available and require 30 to 180 days' prior notification.
Private equity	2,611,463	1,383,586	0 to 15	Generally, lock-up provisions ranging from 0 to 16 years. After initial lock-up expires, redemptions are available and require 30 to 180 days' prior notification.
Real assets	105,822	49,326	0 to 12	Not eligible for redemption.
Real estate and real estate investment trusts	515,008	319,824	0 to 12	Not eligible for redemption.
U.S. equity and non-U.S. equity funds	2,339,878	6,667	0 to 15	Generally, lock-up provisions ranging from 0 to 4 years. After initial lock-up expires, redemptions are available and require 0 to 365 days' prior notification.

(in thousands of dollars)		UNIVERSITY OF CALIFORNIA RETIREMENT SYSTEM				
INVESTMENT TYPE	FAIR VALUE	UNFUNDED COMMITMENTS	REMAINING LIFE (YEARS)	REDEMPTION TERMS AND RESTRICTIONS		
Absolute return	\$2,843,897			Not eligible for redemption and lock-up provisions ranging from 0 to 3 years. For securities not eligible for redemptions 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 30 to 365 days' prior notification.		
Private equity	8,746,627	\$4,376,541	0 to 15	Not eligible for redemption.		
Private credit	2,127,956	542,443	0 to 10	Not eligible for redemption and lock-up provisions ranging from 0 to 10 years. For securities not eligible for redemptions the underlying assets are estimated to be liquidated within 3 to 7 years. For securities eligible for redemptions, after initial lock-up expires, redemptions are available on a rolling basis and require 30 to 365 days prior notification before winding down.		
Real assets	3,333,596	1,296,449	0 to 15	Not eligible for redemption.		
U.S. equity funds	2,489,916			Redemption generally requires at least 0 to 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 to 120 days.		
Non-U.S. equity funds	6,824,969			Redemption requires at least 0 to 180 days prior written notice of intention to terminate as of a date determined by the legal agreement between the investment manager and The Regents. Withdrawals may occur on the last business day of the month and are subject to certain withdrawal guidelines.		
Real estate and real estate investment trusts	5,206,895	808,518	0 to 10	Closed-end funds are not eligible for redemption. For open-end funds, redemptions are generally on a quarterly basis where the redemption date is the last day of each quarter. Payments of withdrawal requests are generally made within four quarters.		

7. INVESTMENTS HELD BY TRUSTEES

The University has entered into agreements with trustees to maintain trusts for the University's long-term debt requirements, capital projects and certain other requirements.

Capital Projects

Proceeds from the sale of bonds for the design and construction of third-party blended component unit housing facilities are held by trustees. The fair value of these investments was \$461.8 million and \$563.7 million at June 30, 2022 and 2021, respectively. Substantially all of these investments are of a highly liquid, short-term nature.

8. 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 SALES	PRIVATE GRANTS AND CONTRACTS	MEDICAL PROFESSIONAL FEES	OTHER	TOTAL
<i>At June 30, 2022</i>								
Accounts receivable		\$1,195,903	\$3,174,266	\$115,301	\$629,119	\$646,796	\$1,171,544	\$6,932,929
Allowance for uncollectible accounts		(11,354)	(521,589)		(47,547)	(180,078)	(48,162)	(808,730)
Accounts receivable, net		\$1,184,549	\$2,652,677	\$115,301	\$581,572	\$466,718	\$1,123,382	\$6,124,199
								\$33,325
<i>At June 30, 2021</i>								
Accounts receivable		\$1,107,648	\$2,925,768	\$79,677	\$575,754	\$571,370	\$844,643	\$6,104,860
Allowance for uncollectible accounts		(8,078)	(394,059)		(22,430)	(140,496)	(41,802)	(606,865)
Accounts receivable, net		\$1,099,570	\$2,531,709	\$79,677	\$553,324	\$430,874	\$802,841	\$5,497,995
								\$49,288

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

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

The allowance for uncollectible accounts have decreased the following revenues for the years ended June 30:

UNIVERSITY OF CALIFORNIA		
(in thousands of dollars)	2022	2021
Student tuition and fees	(\$2,682)	(\$1,985)
Grants and contracts:		
Federal	(1,550)	63
State	(1,954)	(1,443)
Private	(25,002)	(4,559)
Local	(562)	(17)
Medical centers	(217,683)	(244,864)
Educational activities	(23,683)	(18,015)
Auxiliary enterprises	(2,995)	(1,199)
Other operating revenues	(8,166)	(4,693)
Allowance for uncollectible accounts	(\$284,277)	(\$276,712)

9. 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	
	2022	2021	2022	2021
Total pledges receivable outstanding	\$92,488	\$136,499	\$1,429,468	\$1,118,728
Unamortized discount to present value	(248)	(769)	(118,716)	(121,123)
Allowance for uncollectible pledges	(10,524)	(9,414)	(82,310)	(69,736)
Total pledges receivable, net	81,716	126,316	1,228,442	927,869
Current portion of pledges receivable	(49,408)	(82,318)	(480,206)	(194,543)
Noncurrent portion of pledges receivable	\$32,308	\$43,998	\$748,236	\$733,326

Future receipts under pledge agreements for each of the five fiscal years subsequent to June 30, 2022 and thereafter are as follows:

(in thousands of dollars)	UNIVERSITY OF CALIFORNIA	UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS
<i>Year Ending June 30</i>		
2023	\$54,500	\$527,569
2024	25,255	156,864
2025	6,902	144,940
2026	4,937	99,254
2027	445	64,956
2028-2032	199	199,204
Beyond 2032	250	236,681
Total payments on pledges receivable	\$92,488	\$1,429,468

10. NOTES AND MORTGAGES RECEIVABLE

Notes and mortgages receivable at June 30, 2022 and 2021 are as follows:

(in thousands of dollars)	UNIVERSITY OF CALIFORNIA			
	CURRENT	NONCURRENT		
		NOTES	MORTGAGES	TOTAL
<i>At June 30, 2022</i>				
Notes and mortgages receivable	\$67,610	\$323,667	\$20,641	\$344,308
Allowance for uncollectible amounts	(3,859)	(11,401)		(11,401)
Notes and mortgages receivable, net	\$63,751	\$312,266	\$20,641	\$332,907
<i>At June 30, 2021</i>				
Notes and mortgages receivable	\$65,829	\$346,222	\$23,840	\$370,062
Allowance for uncollectible amounts	(4,243)	(12,029)	(169)	(12,198)
Notes and mortgages receivable, net	\$61,586	\$334,193	\$23,671	\$357,864

11. CAPITAL ASSETS

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

(in thousands of dollars)	2020	ADDITIONS / TRANSFERS	DISPOSALS	2021	ADDITIONS / TRANSFERS	DISPOSALS	2022
ORIGINAL COST							
Land	\$1,370,982	\$109,338	(\$2,878)	\$1,477,442	\$66,663		\$1,544,105
Infrastructure	921,697	18,845	(42)	940,500	23,502		964,002
Buildings and improvements	45,008,721	2,319,736	(46,883)	47,281,574	2,622,051	(16,269)	49,887,356
Equipment, software and intangibles	9,351,684	588,387	(322,699)	9,617,372	673,316	(489,833)	9,800,855
Right-of-use assets	2,678,041	378,940	(109,559)	2,947,422	354,914	(233,851)	3,068,485
Libraries and collections	4,474,495	182,914	(19,977)	4,637,432	153,884	(18,845)	4,772,471
Special collections	603,658	24,834	(22,853)	605,639	12,526	(24)	618,141
Construction in progress	3,935,419	568,942		4,504,361	130,405		4,634,766
Capital assets, at original cost	\$68,344,697	\$4,191,936	(\$524,891)	\$72,011,742	\$4,037,261	(\$758,822)	\$75,290,181
 DEPRECIATION AND AMORTIZATION							
	2020	DEPRECIATION AND AMORTIZATION	DISPOSALS	2021	DEPRECIATION AND AMORTIZATION	DISPOSALS	2022
ACCUMULATED DEPRECIATION AND AMORTIZATION							
Infrastructure	\$447,906	\$33,494		\$481,400	\$30,085	(\$2,256)	\$509,229
Buildings and improvements	19,019,890	1,444,116	(\$28,737)	20,435,269	1,511,091	(103,460)	21,842,900
Equipment, software and intangibles	6,360,305	696,236	(315,711)	6,740,830	659,947	(480,569)	6,920,208
Right-of-use assets	283,680	308,370	(35,195)	556,855	283,005	(77,339)	762,521
Libraries and collections	3,352,053	141,642	(31,449)	3,462,246	142,484	(24,847)	3,579,883
Accumulated depreciation and amortization	29,463,834	\$2,623,858	(\$411,092)	31,676,600	\$2,626,612	(\$688,471)	33,614,741
Capital assets, net	\$38,880,863			\$40,335,142			\$41,675,440

Service concession arrangements, reported as buildings and improvements, are \$276.3 million of original cost and \$43.9 million of accumulated depreciation at June 30, 2022, and are \$279.1 million of original cost and \$41.3 million of accumulated depreciation at June 30, 2021.

12. SELF-INSURANCE AND OTHER LIABILITIES

The University's self-insurance, obligations under life income agreements and other liabilities at June 30, 2022 and 2021 are as follows:

(in thousands of dollars)	UNIVERSITY OF CALIFORNIA				UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS			
	2022		2021		2022		2021	
	CURRENT	NONCURRENT	CURRENT	NONCURRENT	CURRENT	NONCURRENT	CURRENT	NONCURRENT
Self-insurance programs	\$1,146,030	\$1,179,514	\$869,683	\$983,114				
Obligations under life income agreements	1,192	\$33,784	1,498	\$37,331	\$16,815	\$133,808	\$19,457	\$159,425
<i>Other liabilities:</i>								
Compensated absences	863,481	\$504,283	881,823	\$516,126				
Accrued interest	202,370		178,219					
Fair value of interest rate swaps		1,178		154,182				
Third-party payor settlements	919,759		924,564					
Short-term advances	88,369		806,441					
Other	53,634	451,821	371,904	334,131	135,793	39,251	58,116	23,027
Total	\$3,274,835	\$957,282	\$4,034,132	\$1,004,439	\$152,608	\$39,251	\$77,573	\$23,027

To minimize the impact of disruptions in claims processing as a result of COVID-19, the Centers for Medicare & Medicaid Services (CMS) modified an advanced payment program for health care providers as part of the CARES Act. The medical centers applied for and received advanced payments from this program. The medical centers have the option to repay the funds at any time, or the advance payments can be recovered from processing Medicare claims during the 29-month repayment period, which began during fiscal year 2021. To the extent the advances are not recovered during the repayment period, as defined by CMS, the advances are due on demand. The advances are interest-free during the repayment period; however, if the medical centers have unpaid balances at the end of the repayment period, interest will be charged at 4 percent.

Self-Insurance Programs

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

(in thousands of dollars)	MEDICAL MALPRACTICE	WORKERS' COMPENSATION	EMPLOYEE & STUDENT HEALTH CARE	GENERAL LIABILITY AND OTHER	TOTAL
<i>Year Ended June 30, 2022</i>					
Liabilities at June 30, 2021	\$233,803	\$663,635	\$178,448	\$776,911	\$1,852,797
Claims incurred and changes in estimates	55,705	269,523	2,033,906	248,764	2,607,898
Claim payments	(44,346)	(78,384)	(1,948,312)	(64,109)	(2,135,151)
Liabilities at June 30, 2022	\$245,162	\$854,774	\$264,042	\$961,566	\$2,325,544
Discount rate	3.0%	3.0%	Undiscounted	3.0%	
<i>Year Ended June 30, 2021</i>					
Liabilities at June 30, 2020	\$216,539	\$477,492	\$148,630	\$356,111	\$1,198,772
Claims incurred and changes in estimates	53,347	258,019	1,721,326	465,090	2,497,782
Claim payments	(36,083)	(71,876)	(1,691,508)	(44,290)	(1,843,757)
Liabilities at June 30, 2021	\$233,803	\$663,635	\$178,448	\$776,911	\$1,852,797
Discount rate	3.0%	3.0%	Undiscounted	3.0%	
<i>Year Ended June 30, 2020</i>					
Liabilities at June 30, 2019	\$222,628	\$464,664	\$155,031	\$261,974	\$1,104,297
Claims incurred and changes in estimates	44,865	89,480	1,474,810	153,235	1,762,390
Claim payments	(50,954)	(76,652)	(1,481,211)	(59,098)	(1,667,915)
Liabilities at June 30, 2020	\$216,539	\$477,492	\$148,630	\$356,111	\$1,198,772
Discount rate	3.0%	3.0%	Undiscounted	3.0%	

13. DEBT

The University directly finances the construction, renovation and acquisition of facilities and equipment, or such other purposes as 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, financing obligations and other borrowings.

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

(in thousands of dollars)	WEIGHTED AVERAGE INTEREST RATE	INTEREST RATE RANGE	MATURITY YEARS	2022	2021
INTERIM FINANCING:					
Commercial paper		0.26 - 2.2%	2023	\$945,000	\$370,000
LONG-TERM FINANCING:					
<i>University of California General Revenue Bonds:</i>					
Fixed rate	4.5%	0.3 - 7.6%	2023 - 2115	13,928,370	14,205,356
Variable rate	0.65%	0.5 - 1.6%	2037 - 2048	750,000	750,000
University of California Limited Project Revenue Bonds	4.6%	0.4 - 6.3%	2023 - 2058	5,559,335	5,805,920
<i>University of California Medical Center Pooled Revenue Bonds:</i>					
Fixed rate	4.20%	2.0 - 6.6%	2023 - 2120	7,096,985	4,156,970
Variable rate	0.51%	0.5 - 0.52%	2023 - 2047	229,415	233,410
Unamortized bond premium				1,502,512	1,459,577
University of California revenue bonds	4.3%			29,066,617	26,611,233
Financing obligations		Various	2023 - 2042	80,868	69,864
Other University borrowings		Various	2023 - 2091	844,735	889,472
Leases		Various	2023 - 2120	2,487,704	2,519,570
Blended component unit revenue bonds, net	4.7%	3 - 6.5%	2023 - 2054	2,316,393	2,207,717
Total outstanding debt				35,741,317	32,667,856
Less: Commercial paper				(945,000)	(370,000)
Current portion of outstanding debt				(2,051,945)	(2,157,824)
Noncurrent portion of outstanding debt				\$32,744,372	\$30,140,032

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:

(in thousands of dollars)	UNIVERSITY REVENUE BONDS	FINANCING OBLIGATIONS	OTHER UNIVERSITY BORROWINGS	BLENDED COMPONENT UNIT REVENUE BONDS	TOTAL
<i>Year Ended June 30, 2022</i>					
Long-term debt at June 30, 2021	\$26,611,233	\$2,589,434	\$889,472	\$2,207,717	\$32,297,856
New obligations	3,411,710	302,163		191,250	3,905,123
Bond premium, net	139,328			25,212	164,540
Refinancing or prepayment of outstanding debt	(495,535)	(39,293)	(114)	(76,820)	(611,762)
Scheduled principal payments	(503,725)	(283,732)	(44,623)	(20,510)	(852,590)
Amortization of bond premium	(96,394)			(10,456)	(106,850)
Long-term debt at June 30, 2022	29,066,617	2,568,572	844,735	2,316,393	34,796,317
Less: Current portion	(1,614,728)	(257,209)	(145,022)	(34,986)	(2,051,945)
Noncurrent portion at June 30, 2022	\$27,451,889	\$2,311,363	\$699,713	\$2,281,407	\$32,744,372
<i>Year Ended June 30, 2021</i>					
Long-term debt at June 30, 2020	\$22,304,626	\$2,563,807	\$913,410	\$1,921,285	\$27,703,128
New obligations	5,161,080	368,182	19,961	277,425	5,826,648
Bond premium, net	350,338			37,251	387,589
Refinancing or prepayment of outstanding debt	(439,120)	(51,183)	(42)		(490,345)
Scheduled principal payments	(668,790)	(291,372)	(43,857)	(20,315)	(1,024,334)
Amortization of bond premium	(96,901)			(7,929)	(104,830)
Long-term debt at June 30, 2021	26,611,233	2,589,434	889,472	2,207,717	32,297,856
Less: Current portion	(1,587,228)	(341,282)	(194,697)	(34,617)	(2,157,824)
Noncurrent portion at June 30, 2021	\$25,024,005	\$2,248,152	\$694,775	\$2,173,100	\$30,140,032

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 or equipment, financing for 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 constitutes 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:

(in thousands of dollars)	2022		2021	
	INTEREST RATES	OUTSTANDING	INTEREST RATES	OUTSTANDING
Tax-exempt	1.19 - 1.2%	\$23,900	0.08 - 0.11%	\$25,530
Taxable	0.26 - 2.2%	921,100	0.04 - 0.16%	344,470
Total outstanding		\$945,000		\$370,000

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, 2022, the University has two revolving credit agreements totaling \$700.0 million. There were no borrowings against the revolving credit lines as of June 30, 2022.

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, 2022 and 2021 were \$19.5 billion and \$16.8 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 specific projects. The Limited Project Revenue Bond Indenture requires the University to achieve the sum of revenues equal to 1.1 times debt service and to 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, 2022 and 2021 were \$1.5 billion and \$656.3 million, 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, 2022 and 2021 were \$17.6 billion and \$15.8 billion, respectively.

2022 Activity

In May 2022, Medical Center Revenue Bonds totaling \$3.0 billion, including \$1.1 billion in taxable bonds, were issued for working capital purposes and to finance the acquisition, construction, improvement and renovation of certain facilities at the University's medical centers. The bonds mature at various dates through 2054 and have a stated weighted average interest rate of 4.5 percent. Proceeds of \$400.0 million of the taxable bonds will be used for operations. Proceeds of the tax-exempt bonds, including a bond premium of \$100.2 million, and the remaining proceeds of the taxable bonds, were issued 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.

In March 2021, the University priced \$411.7 million of tax-exempt Limited Project Revenue Bonds that were delivered in February 2022. Proceeds of the bonds, including a bond premium of \$90.9 million, were used to pay for issuance costs and to repay \$495.5 million of outstanding Limited Project Revenue Bonds at the call date. The bonds have a stated weighted average interest rate of 5.0 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

2021 Activity

In March 2021, General Revenue Bonds totaling \$1.4 billion, including \$1.1 billion in taxable bonds, were issued to finance the acquisition, construction, improvement and renovation of certain facilities of the University. The taxable bonds mature at various dates through 2051 and have a stated weighted average interest rate of 2.8 percent. Proceeds of \$475.0 million of the taxable bonds will be used for operations. Proceeds of the tax-exempt bonds and the remaining proceeds of the taxable bonds, including a bond premium of \$58.8 million, were used to pay for project construction and issuance costs and to repay \$590.2 million of outstanding General Revenue Bonds between 2021 and 2024. The tax-exempt bonds have a stated weighted average interest rate of 4.2 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 \$42.9 million and economic gain of \$34.6 million.

In March 2021, Limited Project Revenue Bonds totaling \$1.1 billion, including \$392.9 million in taxable bonds, were issued to finance the acquisition, construction, improvement and renovation of certain facilities of the University. The taxable bonds mature at various dates through 2051 and have a stated weighted average interest rate of 2.6 percent. Proceeds of the tax-exempt bonds and the remaining proceeds of the taxable bonds, including a bond premium of \$124.2 million, were used to pay for project construction and issuance costs and to repay \$23.7 million of outstanding Limited Project Revenue Bonds in 2021 and 2022. The tax-exempt bonds have a stated weighted average interest rate of 4 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

In July 2020, General Revenue Bonds totaling \$2.6 billion, including \$826.2 million in tax-exempt bonds and \$1.8 billion in taxable bonds, were issued for working capital purposes and to finance and refinance the acquisition, construction, improvement and renovation of certain facilities of the University. The bonds mature at various dates through 2050. Proceeds of \$1.5 billion of the taxable bonds were used for operations. Proceeds of the tax-exempt bonds and the remaining proceeds of the taxable bonds, including a bond premium of \$190.3 million, were used to pay for project construction and issuance costs and to repay \$45.7 million of outstanding General Revenue Bonds in August 2020. The tax-exempt bonds have a stated weighted average interest rate of 4.2 percent. The taxable bonds have a stated weighted average interest rate of 1.5 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

Leases

The University entered into leases resulting in right-to-use assets totaling \$343.6 million and \$361.0 million for the years ended June 30, 2022 and 2021, respectively.

The University has leases for land, buildings and equipment under agreements that extend through 2120. Some leases include one or more options to renew, with renewal terms that can extend the lease term from one to 39 years. Leases may also include options to terminate the leases.

Certain of the University's lease agreements include rental payments adjusted periodically primarily for inflation. The lease agreements do not contain any material lease incentive received, residual value guarantees, material restrictive covenants or material termination penalties. The University also subleases certain real estate to third parties.

The University measures the lease liability at the present value of payments expected to be made during the lease term. Leases with a term of 12 months or less, real estate leases with cumulative undiscounted payments of less than \$300,000 (including option periods) or equipment leases with cumulative undiscounted payments of less than \$100,000 (including option periods) are recognized as operating expense on a straight-line basis over the lease term. If the interest rate implicit in the lease cannot be readily determined, the University uses an incremental borrowing rate to discount the lease payments, which is an estimate of the interest rate that would be charged for borrowing the lease payment amounts during the lease term.

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

UNIVERSITY OF CALIFORNIA			
(in thousands of dollars)	PRINCIPAL	INTEREST	TOTAL PAYMENTS
<i>Year Ending June 30</i>			
2023	\$229,335	\$87,824	\$317,159
2024	220,989	80,940	301,929
2025	206,876	73,332	280,208
2026	186,148	66,536	252,684
2027	168,648	59,234	227,882
2028-2032	697,749	207,526	905,275
2033-2037	442,787	95,205	537,992
2038-2042	192,484	34,256	226,740
2043-2047	46,711	16,775	63,486
2048-2052	37,938	10,979	48,917
2053-2057	22,986	6,849	29,835
2058-2062	25,355	3,678	29,033
2063-2067	902	2,666	3,568
2068-2072		4,050	4,050
2073-2077		4,050	4,050
2078-2082		5,214	5,214
2083-2087		7,088	7,088
2088-2092		7,088	7,088
2093-2097		7,088	7,088
2098-2102		7,088	7,088
2103-2107		7,088	7,088
2108-2112	126	6,962	7,088
2113-2117	5,849	1,239	7,088
2118-2120	2,822	130	2,952
Total	\$2,487,705	\$802,885	\$3,290,590

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 hybrid derivative instruments.

The University may use uncollateralized revolving lines of credit with commercial banks for capital purposes and to provide interim financing for buildings and equipment. Lines of credit commitments for general corporate purposes, which expire on November 30, 2022, totaled \$200.0 million at June 30, 2022 and 2021. Outstanding borrowings under these bank lines totaled \$100.0 million and \$150.0 million at June 30, 2022 and 2021.

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 \$71.7 million and \$76.7 million at June 30, 2022 and 2021, 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 through 2055. Construction of all of the facilities was completed in the summer of 2020. Payments under this agreement 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. The payments for servicing the private debt are recorded as other borrowings by the University. The operations and maintenance component of the payments will be expensed as incurred. 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 \$590.6 million and \$625.0 million at June 30, 2022 and 2021, respectively.

Blended Component Unit Revenue Bonds

Student Housing

The University has entered into ground leases with legally separate nonprofit corporations that develop and own student housing projects and related amenities and improvements on three University campuses through the use of project limited liability corporations (LLC). Each LLC, through a conduit issuer, has outstanding Student Housing LLC Revenue Bonds to finance the construction of the student housing facilities. Each 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 each LLC. Student rental rates are established in order to provide for operating expenses and to maintain the required debt service coverage ratios. 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 October 2021, one of the LLCs, through its conduit issuer, issued additional Student Housing LLC Revenue Bonds totaling \$191.3 million. The bonds mature at various dates through 2054 and have a stated weighted average interest rate of 3.7 percent. Proceeds, including a bond premium of \$30.6 million, were used to refinance \$76.8 million of outstanding bonds and 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.

In May 2021, one of the LLCs, through its conduit issuer, issued additional Student Housing LLC Revenue Bonds totaling \$277.4 million. The bonds mature at various dates through 2054 and have a stated weighted average interest rate of 3.6 percent. Proceeds, including a bond premium of \$40.7 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, 2022 and 2021, the LLCs, through a conduit issuer, have outstanding Student Housing LLC Revenue Bonds totaling \$1.7 billion and \$1.6 billion, respectively. The bonds mature at various dates through 2054 and have a weighted average interest rate of 4.5 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 lease 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 that are 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.

At June 30, 2022, the Corporation, through a conduit issuer, has outstanding tax-exempt revenue bonds totaling \$178.7 million and taxable revenue bonds totaling \$188.0 million. At June 30, 2021, the Corporation, through a conduit issuer, had outstanding tax-exempt revenue bonds totaling \$184.8 million and taxable revenue bonds totaling \$188.0 million. The tax-exempt revenue bonds mature at various dates from 2023 to 2052 and have a weighted average interest rate of 5.0 percent. The tax-exempt revenue bonds generally have annual serial maturities, semiannual interest payments and optional redemption provisions. The taxable bonds mature from 2026 to 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 was expected at the time of issuance to send the conduit issuer 35.0 percent of the semiannual interest cost on the taxable bonds. As of June 30, 2022, the U.S. Treasury had reduced the subsidy by 5.7 percent for a net subsidy of 33.0 percent and has published its intention to do so through Federal Fiscal Year 2030, making the net interest rate 4.3 percent post-subsidy. The taxable bonds have a term maturity with various certain annual sinking fund requirements, semiannual 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.

The Consortium, through a conduit issuer, has outstanding revenue bonds totaling \$46.2 million and \$47.8 million at June 30, 2022 and 2021, respectively. The bonds mature at various dates through 2040 and have a weighted average interest rate of 4.4 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, excluding leases, for each of the five fiscal years subsequent to June 30, 2022, 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.

(in thousands of dollars)	COMMERCIAL PAPER	MEDICAL CENTER REVENUE BONDS	UNIVERSITY REVENUE BONDS	FINANCING OBLIGATIONS	OTHER UNIVERSITY BORROWINGS	BLENDED COMPONENT UNIT REVENUE BONDS	TOTAL PAYMENTS	PRINCIPAL	INTEREST
<i>Year Ending June 30</i>									
2023	\$947,895	\$388,060	\$1,283,775	\$26,428	\$145,908	\$132,740	\$2,924,806	\$1,683,666	\$1,241,139
2024		381,250	1,311,033	18,892	71,367	140,056	1,922,598	707,480	1,215,117
2025		380,805	1,719,228	14,941	21,019	136,712	2,272,705	1,081,796	1,190,908
2026		379,318	1,782,737	11,843	21,223	138,247	2,333,368	1,179,734	1,153,633
2027		380,658	1,776,707	4,534	21,402	139,977	2,323,278	1,204,812	1,118,465
2028-2032		2,226,962	7,244,818	11,231	105,945	716,428	10,305,384	5,261,178	5,044,208
2033-2037		1,980,476	5,672,602		102,966	720,300	8,476,344	4,489,077	3,987,267
2038-2042		2,097,904	4,739,414		115,552	627,176	7,580,046	4,683,032	2,897,014
2043-2047		2,152,541	3,471,322		97,584	555,607	6,277,054	4,402,314	1,874,740
2048-2052		2,154,739	2,006,355		92,754	458,661	4,712,509	3,662,318	1,050,188
2053-2057		635,223	470,116		63,363	43,868	1,212,570	644,638	567,931
2058-2120		1,933,463	5,063,516				6,996,979	2,532,099	4,464,887
Total future debt service	947,895	15,091,399	36,541,623	87,869	859,083	3,809,772	57,337,641	\$31,532,144	\$25,805,497
Less: Interest component of future payments	(2,895)	(7,764,999)	(16,303,918)	(7,001)	(14,347)	(1,712,337)	(25,805,497)		
Principal portion of future payments	945,000	7,326,400	20,237,705	80,868	844,736	2,097,435	31,532,144		
<i>Adjusted by:</i>									
Unamortized bond premium		235,434	1,267,077				218,958	1,721,469	
Total debt	\$945,000	\$7,561,834	\$21,504,782	\$80,868	\$844,736	\$2,316,393	\$33,253,613		

Long-term debt does not include \$1.2 billion of defeased liabilities at June 30, 2022. 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 primarily reset daily 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, 2022.

Medical Center Pooled Revenue Bonds of \$229.4 million are variable-rate demand bonds which give the debt holders the ability to tender the bonds back to The Regents upon demand. The University has classified these bonds as current liabilities as of June 30, 2022.

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, 2022, 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, 2022, 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>				
2023	\$7,510	\$4,067	\$10,225	\$21,802
2024	7,815	4,077	10,467	22,359
2025	8,125	3,995	10,697	22,817
2026	8,455	3,961	10,488	22,904
2027	8,805	3,927	10,272	23,004
2028-2032	49,690	18,930	48,052	116,672
2033-2037	28,890	17,859	42,962	89,711
2038-2042	48,805	17,000	22,210	88,015
2043-2047	531,695	12,168	4,743	548,606
2048	129,625	601		130,226
Total	\$829,415	\$86,585	\$170,116	\$1,086,116

14. DEFERRED OUTFLOWS AND INFLOWS OF RESOURCES

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

<i>(in thousands of dollars)</i>	2022	2021
Net pension liability	\$6,232,412	\$3,302,286
Net retiree health benefits liability	4,837,480	5,952,043
Debt refunding	235,261	271,008
Interest rate swap agreements	89,066	154,182
Asset retirement obligations	101,622	73,141
Acquisitions	2,723	4,538
Total	\$11,498,564	\$9,757,198

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

<i>(in thousands of dollars)</i>	2022	2021
Service concession arrangements	\$232,380	\$237,787
Net pension liability	143,913	11,182,115
Net retiree health benefits liability	9,967,408	5,588,744
Debt refunding	40,958	7,007
Interest rate swap agreements	87,888	
Royalty sales	290,750	338,549
Irrevocable split-interest agreements	76,494	80,048
Leases	590,585	575,195
Total	\$11,430,376	\$18,009,445

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

15. UNIVERSITY OF CALIFORNIA RETIREMENT PLANS

Most University employees participate in UCRS. UCRS consists of UCRP, a governmental 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 nonelective and elective contributions; and UC-VERIP, a defined benefit plan for University employees who were members of the California Public Employees' Retirement System (CalPERS) who elected early retirement. Other retirement plans include the Children's Hospital and Research Center at Oakland (CHRCO) Pension Plan, a defined benefit plan fully funded with CHRCO contributions and the Orange County Employees' Retirement System (OCERS) retirement plan, a cost-sharing multiemployer defined benefit pension plan for former employees of an Orange County hospital center who chose to remain with OCERS at the time the hospital was acquired by the University. The Regents have the authority to establish and amend UCRS, and administration authority with respect to the 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 State Street Bank and Trust Company (the Trustee) which is the successor trustee to U.S. Bank effective December 1, 2021.

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, 2022 are as follows:

UNIVERSITY OF CALIFORNIA						
(in thousands of dollars)	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	\$81,464,992	\$65,011	\$81,530,003	\$27,609,798	\$109,139,801	\$534,917
Participants' interests in mutual funds				2,012,040	2,012,040	
Investment of cash collateral	7,198,910	5,743	7,204,653	3,196,346	10,400,999	
Other assets	813,949	494	814,443	344,256	1,158,699	3,300
Total assets	89,477,851	71,248	89,549,099	33,162,440	122,711,539	538,217
Collateral held for securities lending	7,198,909	5,743	7,204,652	3,196,347	10,400,999	
Other liabilities	915,914	481	916,395	32,387	948,782	
Total liabilities	8,114,823	6,224	8,121,047	3,228,734	11,349,781	
Net position held in trust	\$81,363,028	\$65,024	\$81,428,052	\$29,933,706	\$111,361,758	\$538,217
CONDENSED STATEMENT OF CHANGES IN PLAN FIDUCIARY NET POSITION						
Contributions	\$3,998,026		\$3,998,026	\$2,011,485	\$6,009,511	\$37,452
Net appreciation (depreciation) in fair value of investments	(10,825,110)	(\$12,299)	(10,837,409)	(5,612,919)	(16,450,328)	
Investment and other income, net	1,059,235	4,446	1,063,681	714,423	1,778,104	(94,275)
Total additions, net	(5,767,849)	(7,853)	(5,775,702)	(2,887,011)	(8,662,713)	(56,823)
Benefit payment and participant withdrawals	4,534,161	3,324	4,537,485	1,923,293	6,460,778	22,683
Other deductions	84,760	3	84,763	3,888	88,651	4,062
Total deductions	4,618,921	3,327	4,622,248	1,927,181	6,549,429	26,745
Change in net position held in trust	(10,386,770)	(11,180)	(10,397,950)	(4,814,192)	(15,212,142)	(83,568)
Net position held in trust						
Beginning of year	91,749,798	76,204	91,826,002	34,747,898	126,573,900	621,785
End of year	\$81,363,028	\$65,024	\$81,428,052	\$29,933,706	\$111,361,758	\$538,217
CHANGES IN TOTAL PENSION LIABILITY						
Service cost	\$2,588,194		\$2,588,194			\$15,775
Interest	6,633,210	\$1,384	6,634,594			42,159
Difference between expected and actual experience	284,807	108	284,915			1,058
Changes of assumptions or other inputs						(22,525)
Benefits paid, including refunds of employee contributions	(4,534,161)	(3,324)	(4,537,485)			(22,683)
Net change in total pension liability	4,972,050	(1,832)	4,970,218			13,784
Total pension liability						
Beginning of year	97,663,860	22,059	97,685,919			644,151
End of year	102,635,910	20,227	102,656,137			657,935
Net pension liability (asset), end of year	\$21,272,882	(\$44,797)	\$21,228,085			\$119,718

Additional information on the retirement plans can be obtained from the 2021-2022 annual reports of the University of California Retirement System which can be found at <http://reportingtransparency.universityofcalifornia.edu>.

University of California Retirement Plan

UCRP provides lifetime retirement income, disability protection, death benefits and postretirement and preretirement survivor benefits to eligible employees of the University, its affiliates and their survivors and beneficiaries.

The University's membership in UCRP consisted of the following at June 30, 2022:

	CAMPUSES AND MEDICAL CENTERS	DOE NATIONAL LABORATORIES	UNIVERSITY OF CALIFORNIA
Retirees and beneficiaries receiving benefits	72,654	12,812	85,466
Inactive members entitled to, but not receiving benefits	105,032	7,895	112,927
Active members:			
Vested	81,884	1,735	83,619
Nonvested	50,600	681	51,281
Total active members	132,484	2,416	134,900
Total membership	310,170	23,123	333,293

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 determine 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. Additional information on UCRP contributions can be obtained from the 2021-2022 annual report of the University of California Retirement System.

As of June 30, 2022 and 2021, the University reported \$624.3 million and \$591.4 million, respectively, as other noncurrent Department of Energy receivables for pension liabilities. Contributions of \$75.1 million and \$166.9 million were deposited into UCRP on behalf of the DOE for the years ended June 30, 2022 and 2021, 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:

(in thousands of dollars)	CAMPUSES AND MEDICAL CENTERS	DOE NATIONAL LABORATORIES	UNIVERSITY OF CALIFORNIA
<i>At June 30, 2022</i>			
UCRP net position	\$72,254,382	\$9,108,646	\$81,363,028
Total pension liability	92,468,791	10,167,119	102,635,910
Net pension liability	\$20,214,409	\$1,058,473	\$21,272,882
<i>At June 30, 2021</i>			
UCRP net position	\$80,873,774	\$10,876,024	\$91,749,798
Total pension liability	87,532,664	10,131,196	97,663,860
Net pension liability (asset)	\$6,658,890	(\$744,828)	\$5,914,062

The net pension liability for UCRP 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 by rolling forward the total pension liability from the results of the actuarial valuations as of July 1, one year prior to the measurement date. The actuarial assumptions used as of June 30, 2021 were based on the results of the most recent experience study covering the period of July 1, 2014 through June 30, 2018. The net pension liability for UCRP was calculated using the following methods and assumptions:

Inflation	2.50%
Investment rate of return	6.75
Projected salary increases	3.65 - 5.95
Cost-of-living adjustments ¹	4.41% for those who retired 7/2/2019 - 7/1/2020; 3.69% for all others eligible for COLA

¹*Greater than the 2.00% assumption from the most recent
experience study*

Mortality rates used to calculate the net pension liability were:

MORTALITY RATES	
Preretirement	Pub-2010 Teacher Employee Amount-Weighted Above-Median Mortality Table
Postretirement Healthy Members	Pub-2010 Healthy Teacher Amount-Weighted Above-Median Mortality Table multiplied by 90 percent for male faculty members, 95 percent for female faculty members, 100 percent for other male members and 110 percent for other female members
Postretirement Disabled Members	Pub-2010 Non-Safety Disabled Retiree Amount- Weighted Mortality Table
Beneficiaries of Retired Members	Pub-2010 Contingent Survivor Amount-Weighted Above-Median Mortality Table multiplied by 100 percent for males and 90 percent for females

All mortality tables above were projected generationally with the two-dimensional mortality improvement scale MP-2018.

The long-term expected investment rate of return assumption for UCRP was determined based on the aforementioned experience study, using 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 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 are summarized in the following table:

	TARGET ALLOCATION	LONG-TERM EXPECTED REAL RATE OF RETURN
<i>Asset class</i>		
U.S. equity	27.6%	5.6%
Developed international equity	16.8	6.5
Emerging market equity	5.6	8.6
Core bonds	13.0	1.5
High-yield bonds	2.5	3.7
Treasury inflation-protected securities	2.0	1.2
Emerging market debt	2.5	3.9
Private equity	10.0	9.2
Real estate	7.0	6.6
Absolute return	10.0	3.3
Real assets	3.0	5.6
Total	100.0%	

Discount Rate

The discount rate used to estimate the net pension liability was 6.75 percent as of June 30, 2022 and 2021. To calculate the discount rate, cash flows into and out of UCRP were projected in order to determine whether UCRP 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 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, 2022 and 2021.

Sensitivity of the Net Pension Liability to the Discount Rate Assumption

The following presents the June 30, 2021 net pension liability of the University calculated using the June 30, 2021 discount rate assumption of 6.75 percent, as well as what the net pension liability would be if it were calculated using a discount rate different than the current assumption:

(in thousands of dollars)	1% DECREASE (5.75%)	CURRENT DISCOUNT (6.75%)	1% INCREASE (7.75%)
UCRP	\$35,119,760	\$21,272,882	\$9,893,394
UC-VERIP	(43,826)	(44,797)	(45,675)

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:

(in thousands of dollars)	CAMPUSES AND MEDICAL CENTERS	DOE NATIONAL LABORATORIES	TOTAL UCRP	UC-VERIP	TOTAL
<i>At June 30, 2022</i>					
DEFERRED OUTFLOWS OF RESOURCES					
Difference between expected and actual experience					
Difference between expected and actual experience	\$521,042		\$521,042		\$521,042
Changes of assumptions or other inputs	1,227,868		1,227,868		1,227,868
Net difference between projected and actual earnings on pension plan investments	3,919,906	\$434,207	4,354,113	\$3,207	4,357,320
Total	\$5,668,816	\$434,207	\$6,103,023	\$3,207	\$6,106,230
DEFERRED INFLOWS OF RESOURCES					
Difference between expected and actual experience	\$112,415		\$112,415		\$112,415
Total	\$112,415		\$112,415		\$112,415
<i>At June 30, 2021</i>					
DEFERRED OUTFLOWS OF RESOURCES					
Difference between expected and actual experience	\$537,863		\$537,863		\$537,863
Changes of assumptions or other inputs	2,707,225		2,707,225		2,707,225
Total	\$3,245,088		\$3,245,088		\$3,245,088
DEFERRED INFLOWS OF RESOURCES					
Difference between expected and actual experience	\$171,271		\$171,271		\$171,271
Net difference between projected and actual earnings on pension plan investments	9,619,164	\$1,336,207	10,955,371	\$9,247	10,964,618
Total	\$9,790,435	\$1,336,207	\$11,126,642	\$9,247	\$11,135,889

Net deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense during the years ended June 30 as follows:

(in thousands of dollars)	CAMPUSES AND MEDICAL CENTERS	DOE NATIONAL LABORATORIES	TOTAL UCRP	UC-VERIP	TOTAL
2023	\$2,041,547	\$67,979	\$2,109,526	\$537	\$2,110,063
2024	607,034	45,431	652,465	365	652,830
2025	42,990	(44,399)	(1,409)	(271)	(1,680)
2026	2,864,830	365,196	3,230,026	2,576	3,232,602
Total	\$5,556,401	\$434,207	\$5,990,608	\$3,207	\$5,993,815

Defined Contribution Plan (DC Plan) / Supplemental Defined Contribution Plan (SDC Plan)

The DC Plan was established by resolution of The Regents to accept after-tax contributions and pretax contributions. The Regents established the SDC Plan to provide retirement benefits to certain designated employees of the University and their beneficiaries.

Additional information on the DC Plan and SDC Plan can be obtained from the 2021-2022 annual report of the University of California Retirement System.

Tax Deferred 403(b) Plan

The University's Tax-Deferred 403(b) Plan (403(b) Plan) accepts pretax employee contributions.

Additional information on the 403(b) Plan can be obtained from the 2021-2022 annual report of the University of California Retirement System.

Employer contributions to the 403(b) Plan were \$9.4 million and \$8.9 million for the years ended June 30, 2022 and 2021.

457(b) Deferred Compensation Plan

The University's 457(b) Deferred Compensation Plan (457(b) Plan) accepts pretax employee contributions.

Additional information on the 457(b) Plan can be obtained from the 2021-2022 annual report of the University of California Retirement System.

There were no employer contributions to the 457(b) Plan for the years ended June 30, 2022 and 2021.

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 University. 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-VERIP)

UC-VERIP is a defined benefit pension plan providing lifetime supplemental retirement income and survivor benefits to UC-VERIP members who elected early retirement under CalPERS.

Additional information on the UC-VERIP can be obtained from the 2021-2022 annual report of the University of California Retirement System.

As of July 1, 2022, there are 334 retirees or beneficiaries receiving benefits under this voluntary early retirement program.

The University and the DOE laboratories previously made contributions to the UC-VERIP sufficient to maintain the promised benefits. The actuarially determined contributions are zero for the years ended June 30, 2022 and 2021.

Children's Hospital and Research Center at Oakland Pension Plan (CHRCO Pension Plan)

The CHRCO Pension Plan is 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 CHRCO Pension Plan was calculated based upon the following assumptions as of June 30, 2022: 3.0 percent inflation, 6.75 percent investment rate of return; projected salary increases - represented employees: 3.75 percent for the fiscal year ended June 30, 2022; 4.0 percent for fiscal years ending June 30, 2023 and 2024 and 3.75 percent for fiscal years ending June 30, 2025 and thereafter; unrepresented employees: 3.0 percent for fiscal year ended June 30, 2022, 4.0 percent for fiscal years ending June 30, 2023 and 2024 and 3.0 percent for fiscal years ending June 30, 2025 and thereafter and no cost-of-living adjustments. CHRCO recognized pension expense of \$49.1 million at June 30, 2022 and \$28.8 million at June 30, 2021.

The actuarial assumptions used in the June 30, 2022 and 2021 valuations were based on the results of an experience study conducted during 2019. In 2022, the mortality rates were based on the Pri-2012 Mortality Table with fully generational projected mortality improvements using Scale MP-2021. In 2021, the mortality rates were based on the Pri-2012 Mortality Table with fully generational projected mortality improvements using Scale MP-2020.

Additional information on the CHRCO Pension Plan can be obtained from Children's Hospital Oakland, Finance Department, 747 52nd Street, Oakland, California 94609.

Membership in the CHRCO Pension Plan consisted of the following at June 30, 2022:

Retirees and beneficiaries receiving benefits	1,301
Inactive members entitled to, but not yet receiving benefits	1,182
Active members	1,885
Total membership	4,368

Contributions

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

Net Pension Liability

The net pension liability for the CHRCO Pension Plan was measured as of June 30 and the total pension liability was determined by an actuarial valuation as of January 1, rolled forward to June 30. 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 CHRCO Pension Plan are as follows:

	PORTFOLIO PERCENTAGE	LONG-TERM EXPECTED REAL RATE OF RETURN
<i>Asset class</i>		
U.S. equity large cap	40.0%	3.3%
U.S. equity small cap	20.0	5.8
Developed international equity	20.0	4.2
Emerging market equity	10.0	5.4
Core fixed income	10.0	(1.2)
Total	100.0%	

Discount Rate

The discount rate used to estimate the net pension liability was 6.75 percent and 6.5 percent for June 30, 2022 and 2021, respectively. The projection of cash flows used to determine the discount rate assumes that CHRCO will make contributions to the CHRCO Pension Plan under IRC Section 430's minimum requirements for a period of 7 and 10 years for its unrepresented and represented employees, respectively, and that all future assumptions are met. Based on these assumptions, the CHRCO Pension Plan's fiduciary net position is projected to be available to make all projected future benefit payments for current active and inactive employees.

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 Program. The Regents have the authority to establish and amend the program. While retiree health benefits are not a legal obligation of the University and can be canceled or modified at any time, accounting standards require the University to recognize a net retiree health liability based on the current practices of providing retiree health benefits.

The University established the UCRHBT in order to allow certain University locations and affiliates (primarily campuses and medical centers) that share the risks, rewards and costs of providing for retiree health benefits to fund such benefits on a cost-sharing basis and accumulate funds on a tax-exempt basis under an arrangement segregated from University assets. Campus and medical center contributions toward retiree health benefits are made to UCRHBT at rates determined by the University. The University receives retiree health contributions from retirees that are deducted from their UCRP benefit payments or are received from the retiree through direct pay. The University acts as a third-party administrator on behalf of UCRHBT and pays health care insurers and administrators amounts currently due under the Retiree Health Benefit Program for retirees. UCRHBT reimburses the University for these amounts.

LBNL participates in the University's Retiree Health Benefits Program. LBNL does not participate in UCRHBT; therefore, the DOE has no interest in UCRHBT'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. To the extent the University has recorded a net retiree health benefits liability (and related deferred inflows and outflows of resources) that will be reimbursed under DOE contracts, a receivable from the DOE is recorded. The University recorded receivables from the DOE of \$708.6 million and \$711.5 million for 2022 and 2021, respectively, representing the DOE's share of the net retiree health benefits liability.

Condensed financial information related to UCRHBT and the changes in retiree health benefits liability for the year ended June 30, 2022 is as follows:

(in thousands of dollars)	CAMPUSES AND MEDICAL CENTERS	LBNL	UNIVERSITY OF CALIFORNIA
Contributions	\$556,105	\$21,366	\$577,471
Investment income, net	345		345
Total additions	556,450	21,366	577,816
Insurance premiums, net	(544,166)	(21,366)	(565,532)
Other deductions	(4,431)		(4,431)
Total deductions	(548,597)	(\$21,366)	(569,963)
Change in net position held in UCRHBT	7,853		7,853
Net position held in UCRHBT, beginning of year	171,621		171,621
Net position held in UCRHBT, end of year	\$179,474		\$179,474
<hr/>			
(in thousands of dollars)	CAMPUSES AND MEDICAL CENTERS	LBNL	UNIVERSITY OF CALIFORNIA
CHANGES IN TOTAL RETIREE HEALTH BENEFITS LIABILITY			
Service cost	\$1,305,803	\$31,121	\$1,336,924
Interest	549,921	15,758	565,679
Difference between expected and actual experience	138,495	38,743	177,238
Changes of assumptions and other inputs	(6,167,373)	(174,345)	(6,341,718)
Benefits paid	(544,166)	(21,366)	(565,532)
Retiree contributions	87,861	2,849	90,710
Net change in total retiree health benefits liability	(4,629,459)	(107,240)	(4,736,699)
Total retiree health benefits liability			
Beginning of year	24,380,432	707,628	25,088,060
End of year	19,750,973	600,388	20,351,361
Net retiree health benefits liability, end of year	\$19,571,499	\$600,388	\$20,171,887

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 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 five years of service. Retirees employed by the University after 1989 and prior to July 1, 2013 become eligible for a percentage of the University's contribution starting at 50 percent of the maximum University contribution with 10 years of service or if age plus years of service equal at least 75, and increasing to 100 percent after 20 years of service. 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. These retirees are eligible for the maximum University contribution at age 65 with 20 or more years of service. Retirees pay the excess, if any, of the premium over the applicable portion of the University's contribution.

Membership in a defined benefit plan to which the University contributes or participation in the DC Plan is required to become eligible for retiree health benefits. Participation in the Retiree Health Benefit Program plans consisted of the following at June 30, 2022:

	CAMPUSES AND MEDICAL CENTERS	LBNL	UNIVERSITY OF CALIFORNIA
Retirees and beneficiaries receiving benefits	47,765	1,867	49,632
Active members	142,615	2,909	145,524
Total membership	190,380	4,776	195,156

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 \$2.36 and \$2.58 per \$100 of UCRP covered payroll effective July 1, 2021 and 2020, 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 March 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:

(shown as percentage)	2022	2021
Discount rate ¹	3.54%	2.16%
Inflation	2.5	2.5
Investment rate of return	2.5	2.5
Health care cost trend rates	Initially ranges from 1.4 to 14.6 decreasing to an ultimate rate of 3.9 for 2075 and later years.	Initially ranges from 2.7 to 7.5 decreasing to an ultimate rate of 4.0 for 2075 and later years.

¹The discount rate was based on the Bond Buyer 20-year tax-exempt general obligations municipal bond index rate since UCHRBT assets are not sufficient to make projected benefit payments.

Mortality Rates

Mortality rates used to calculate the University's net retiree health benefits liability were:

MORTALITY RATES	
Preretirement	Pub-2010 Teacher Employee Headcount-Weighted Above-Median Mortality Table
Postretirement Healthy Members	Pub-2010 Healthy Teacher Retiree Headcount-Weighted Above-Median Mortality Table multiplied by 90 percent for faculty members or 115 percent and 110 percent for other male and female members, respectively.
Postretirement Disabled Members	Pub-2010 Non-Safety Disabled Retiree Headcount-Weighted Mortality Table
Beneficiaries of Retired Members	Pub-2010 Contingent Survivor Headcount-Weighted Above-Median Mortality Table

All mortality rates are projected generationally with the two-dimensional mortality improvement scale MP-2018.

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, 2022 and 2021 were based upon the results of the most recent experience study covering the period of July 1, 2014 through June 30, 2018.

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

The following presents the June 30, 2022 net retiree health benefits liability of the University 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:

(in thousands of dollars)	1% DECREASE (0.4% to 13.6%) DECREASING TO (2.9%)	CURRENT TREND (1.4% to 14.6%) DECREASING TO (3.9%)	1% INCREASE (2.4% to 15.6%) DECREASING TO (4.9%)
Net retiree health benefits liability	\$16,792,957	\$20,171,887	\$24,610,512

Discount Rate

The discount rates used to estimate the net retiree health benefits liability as of June 30, 2022 and 2021 were 3.54 percent and 2.16 percent, respectively.

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

The following presents the June 30, 2022 net retiree health benefits liability of the University 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:

(in thousands of dollars)	1% DECREASE (2.54%)	CURRENT DISCOUNT (3.54%)	1% INCREASE (4.54%)
Net retiree health benefits liability	\$23,896,840	\$20,171,887	\$17,209,141

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)	CAMPUSES AND MEDICAL CENTERS	LBLN	UNIVERSITY OF CALIFORNIA
2022			
DEFERRED OUTFLOWS OF RESOURCES			
Difference between expected and actual experience	\$156,193	\$32,320	\$188,513
Changes of assumptions or other inputs	4,566,601	75,929	4,642,530
Net difference between projected and actual earnings on plan investments	6,437		6,437
Total	\$4,729,231	\$108,249	\$4,837,480
DEFERRED INFLOWS OF RESOURCES			
Difference between expected and actual experience	\$2,847,012	\$65,098	\$2,912,110
Changes of assumptions or other inputs	6,903,908	151,390	7,055,298
Total	\$9,750,920	\$216,488	\$9,967,408

(in thousands of dollars)	CAMPUSES AND MEDICAL CENTERS	LBLN	UNIVERSITY OF CALIFORNIA
2021			
DEFERRED OUTFLOWS OF RESOURCES			
Difference between expected and actual experience	\$44,044	\$1,316	\$45,360
Changes of assumptions or other inputs	5,776,630	125,137	5,901,767
Net difference between projected and actual earnings on plan investments	4,916		4,916
Total	\$5,825,590	\$126,453	\$5,952,043
DEFERRED INFLOWS OF RESOURCES			
Difference between expected and actual experience	\$3,562,951	\$103,739	\$3,666,690
Changes of assumptions or other inputs	1,895,484	26,570	1,922,054
Total	\$5,458,435	\$130,309	\$5,588,744

The net amount of deferred outflows of resources and deferred inflows of resources as of June 30, 2022 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
2023	(\$636,380)	(\$28,147)	(\$664,527)
2024	(754,751)	(17,250)	(772,001)
2025	(929,364)	(19,367)	(948,731)
2026	(573,665)	(26,823)	(600,488)
2027	(413,131)	(16,652)	(429,783)
Thereafter	(1,714,398)		(1,714,398)
Total	(\$5,021,689)	(\$108,239)	(\$5,129,928)

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, excluding income distributed to be used for operating purposes, at June 30, 2022 and 2021 is as follows:

(in thousands of dollars)	UNIVERSITY OF CALIFORNIA			
	RESTRICTED NONEXPENDABLE	RESTRICTED EXPENDABLE	UNRESTRICTED	TOTAL
<i>At June 30, 2022</i>				
Endowments	\$1,261,836	\$4,208,513	\$13,739	\$5,484,088
Funds functioning as endowments		3,364,004	7,546,084	10,910,088
Gifts		2,928,410	183,789	3,112,199
University endowments and gifts	\$1,261,836	\$10,500,927	\$7,743,612	\$19,506,375
<i>At June 30, 2021</i>				
Endowments	\$1,238,159	\$4,674,072	\$8,925	\$5,921,156
Funds functioning as endowments		3,708,116	7,480,402	11,188,518
Gifts		2,578,108	197,800	2,775,908
University endowments and gifts	\$1,238,159	\$10,960,296	\$7,687,127	\$19,885,582

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 \$3.4 billion and \$3.9 billion at June 30, 2022 and 2021, 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 \$432.2 million and \$390.9 million for the years ended June 30, 2022 and 2021, 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 \$488.6 million and \$397.4 million for the years ended June 30, 2022 and 2021, respectively. Accumulated endowment income available for spending in the future, including the annual income distribution, was \$930.2 million and \$812.1 million at June 30, 2022 and 2021, 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:

UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS				
<i>(in thousands of dollars)</i>	RESTRICTED NONEXPENDABLE	RESTRICTED EXPENDABLE	UNRESTRICTED	TOTAL
<i>At June 30, 2022</i>				
Endowments	\$6,428,020	\$2,277,434		\$8,705,454
Funds functioning as endowments		2,551,720		2,551,720
Gifts		2,362,782	\$989,497	3,352,279
Campus foundations' endowments and gifts	\$6,428,020	\$7,191,936	\$989,497	\$14,609,453
<i>At June 30, 2021</i>				
Endowments	\$5,892,517	\$3,788,448		\$9,680,965
Funds functioning as endowments		2,407,656		2,407,656
Gifts		1,846,420	\$825,250	2,671,670
Campus foundations' endowments and gifts	\$5,892,517	\$8,042,524	\$825,250	\$14,760,291

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 the University's medical centers for the years ended June 30, 2022 and 2021 is as follows:

UNIVERSITY OF CALIFORNIA MEDICAL CENTERS		
<i>Years ended June 30, 2022 and 2021 (in thousands of dollars)</i>	2022	2021
Revenue bonds outstanding	\$7,545,842	\$4,609,820
Related debt service payments	269,122	270,193
Bonds due serially through	2120	2120
CONDENSED STATEMENTS OF NET POSITION		
Current assets	\$9,675,529	\$9,805,883
Capital assets, net	9,519,548	8,920,623
Other assets	4,996,820	2,537,339
Total assets	24,191,897	21,263,845
Total deferred outflows of resources	4,688,524	4,076,825
Current liabilities	3,853,269	4,490,066
Long-term debt, net of current portion	8,793,972	5,707,981
Other noncurrent liabilities	15,927,968	12,213,799
Total liabilities	28,575,209	22,411,846
Total deferred inflows of resources	3,624,464	5,402,615
Net investment in capital assets	4,351,053	4,569,096
Restricted	166,376	172,431
Unrestricted	(7,836,681)	(7,215,318)
Total net position	(\\$3,319,252)	(\\$2,473,791)
CONDENSED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION		
Operating revenues	\$17,519,975	\$15,727,060
Operating expenses before depreciation	(16,466,402)	(14,318,946)
Depreciation expense	(721,644)	(704,016)
Operating income	331,929	704,098
Nonoperating revenues (expenses), net	(198,251)	588,290
Income before other changes in net position	133,678	1,292,388
Health systems support	(825,034)	(853,778)
Transfers from (to) University, net	(11,616)	44,418
Changes in allocation for pension payable to University	(166,825)	46,825
Other, including donated assets	24,336	(5,594)
Change in net position	(845,461)	524,259
Net position - beginning of year	(2,473,791)	(2,998,050)
Net position - end of year	(\\$3,319,252)	(\\$2,473,791)
CONDENSED STATEMENTS OF CASH FLOWS		
<i>Net cash provided (used) by:</i>		
Operating activities	\$1,059,319	\$2,242,512
Noncapital financing activities	(209,273)	(307,537)
Capital and related financing activities	1,143,921	(1,278,365)
Investing activities	(2,312,628)	133,014
Net change in cash and cash equivalents	(318,661)	789,624
Cash and cash equivalents* - beginning of year	6,253,798	5,464,174
Cash and cash equivalents* - end of year	\\$5,935,137	\\$6,253,798

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

Summarized financial information in these tables 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 <https://www.ucop.edu/uc-controller/financial-reports/medical-center-financial-reports.html>.

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. LEASES

The University is a lessor of land, buildings and equipment under agreements that extend through 2112. Some leases include one or more lessee options to renew, with renewal terms that can extend the lease term from one to nine years. These leases may also include lessee options to terminate the leases.

Certain of the University's lease agreements include rental payments that are adjusted periodically, primarily for inflation. The lease agreements do not contain any material lease incentives paid, residual value guarantees, material restrictive covenants or material termination penalties.

The University measures the deferred inflow of resources at the present value of payments expected to be received including any advance lease payments or lease incentives during the lease term.

During the years ended June 30, 2022 and 2021, the University recorded \$72.6 million and \$64.8 million, respectively, in lease revenues.

20. BLENDED COMPONENT UNIT INFORMATION

Condensed financial statement information related to certain of the University's blended component units for the year ended June 30, 2022 is as follows:

(in thousands of dollars)	FIAT LUX	CHRCO	RESEARCH	HOUSING
CONDENSED STATEMENTS OF NET POSITION				
Current assets	\$1,836,802	\$332,448	\$19,435	\$477,263
Capital assets, net		439,373	130,578	1,322,719
Other assets	338,867	375,995	371,389	149,368
Total assets	2,175,669	1,147,816	521,402	1,949,350
Total deferred outflows of resources				
Current liabilities	996,981	213,183	29,211	91,824
Other noncurrent liabilities	902,507	262,537	483,424	1,977,916
Total liabilities	1,899,488	475,720	512,635	2,069,740
Total deferred inflows of resources				
Net investment in capital assets		319,697	36,792	
Restricted		106,644		
Unrestricted	276,181	322,863	(23,053)	(120,390)
Total net position	\$276,181	\$749,204	\$13,739	(\$120,390)
CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION				
Operating revenues	\$471,401	\$679,156	\$28,730	\$121,058
Operating expenses	(886,877)	(634,919)	922	(46,282)
Depreciation expense		(38,422)	(5,615)	(33,373)
Operating income (loss)	(415,476)	5,815	24,037	41,403
Nonoperating revenues (expenses), net	(114,509)	(733)	(17,600)	(63,260)
Income (loss) before other changes in net position	(529,985)	5,082	6,437	(21,857)
Transfers from University			(38,338)	
Other, including donated assets	397,000	23,338	191	
Change in net position	(132,985)	28,420	(31,710)	(21,857)
Net position – beginning of year	409,166	720,784	45,449	(98,533)
Net position – end of year	\$276,181	\$749,204	\$13,739	(\$120,390)
CONDENSED STATEMENT OF CASH FLOWS				
<i>Net cash provided (used) by:</i>				
Operating activities	\$68,833	\$14,372	\$29,092	(\$73,534)
Noncapital financing activities	400,000	24,551		
Capital and related financing activities		(31,532)	(59,497)	84,925
Investing activities	215,900	3,368	(178)	8,430
Net change in cash and cash equivalents	684,733	10,759	(30,583)	19,821
Cash and cash equivalents – beginning of year	157,425	192,762	49,313	36,851
Cash and cash equivalents – end of year	\$842,158	\$203,521	\$18,730	\$56,672

Condensed financial statement information related to certain of the University's blended component units for the year ended June 30, 2021 is as follows:

(in thousands of dollars)	FIAT LUX	CHRCO	RESEARCH	HOUSING
CONDENSED STATEMENTS OF NET POSITION				
Current assets	\$1,504,323	\$318,939	\$53,907	\$309,153
Capital assets, net		435,127	254,899	1,143,646
Other assets	571,501	403,839	209,178	372,279
Total assets	2,075,824	1,157,905	517,984	1,825,078
Total deferred outflows of resources		55,679	5,249	
Current liabilities	377,075	253,225	29,556	142,637
Other noncurrent liabilities	1,289,583	172,139	448,228	1,780,974
Total liabilities	1,666,658	425,364	477,784	1,923,611
Total deferred inflows of resources		67,436		
Net investment in capital assets		310,214	38,026	
Restricted		107,630		
Unrestricted	409,166	302,940	7,423	(98,533)
Total net position	\$409,166	\$720,784	\$45,449	(\$98,533)
CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION				
Operating revenues	\$433,300	\$597,989	\$25,357	\$97,424
Operating expenses	(352,290)	(583,803)	(3,651)	(46,429)
Depreciation expense		(39,785)	(2,719)	(24,647)
Operating income (loss)	81,010	(25,599)	18,987	26,348
Nonoperating revenues (expenses), net	141,937	127,895	(15,737)	(85,081)
Income (loss) before other changes in net position	222,947	102,296	3,250	(58,733)
Other, including donated assets		10,431		
Change in net position	222,947	112,727	3,250	(58,733)
Net position – beginning of year	186,219	608,057	42,199	(39,800)
Net position – end of year	\$409,166	\$720,784	\$45,449	(\$98,533)
CONDENSED STATEMENT OF CASH FLOWS				
<i>Net cash provided (used) by:</i>				
Operating activities	\$132,157	\$76,436	\$27,852	(\$33,314)
Noncapital financing activities		41,452		
Capital and related financing activities		(70,193)	(92,922)	363,589
Investing activities	(20,602)	(3,449)	(319)	(337,862)
Net change in cash and cash equivalents	111,555	44,246	(65,389)	(7,587)
Cash and cash equivalents – beginning of year	45,870	148,516	114,702	44,438
Cash and cash equivalents – end of year	\$157,425	\$192,762	\$49,313	\$36,851

CHRCO's other assets include investments in the UCSF Foundation's Endowed Investment Pool of \$316.4 million and \$337.1 million at June 30, 2022 and 2021.

21. DISCRETELY PRESENTED COMPONENT UNIT INFORMATION — CAMPUS FOUNDATIONS

Under University policies, 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, 2022 is as follows:

UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS						
(in thousands of dollars)	BERKELEY	SAN FRANCISCO	LOS ANGELES	SAN DIEGO	ALL OTHER	TOTAL
CONDENSED STATEMENT OF NET POSITION						
Current assets	\$447,399	\$524,316	\$933,973	\$210,280	\$192,432	\$2,308,400
Noncurrent assets	2,952,226	2,613,128	3,712,482	1,377,989	2,266,279	12,922,104
Total assets	3,399,625	3,137,444	4,646,455	1,588,269	2,458,711	15,230,504
Current liabilities	19,485	127,461	49,426	40,684	8,095	245,151
Noncurrent liabilities	73,728	39,550	29,954	7,573	22,254	173,059
Total liabilities	93,213	167,011	79,380	48,257	30,349	418,210
Total deferred inflows of resources	53,271	30,172	36,331	61,551	21,516	202,841
Restricted	3,250,109	2,939,890	3,597,765	1,446,975	2,385,217	13,619,956
Unrestricted	3,032	371	932,979	31,486	21,629	989,497
Total net position	\$3,253,141	\$2,940,261	\$4,530,744	\$1,478,461	\$2,406,846	\$14,609,453
CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION						
Operating revenues	\$587,289	\$514,165	\$526,655	\$136,196	\$217,183	\$1,981,488
Operating expenses	(361,772)	(444,814)	(381,558)	(125,389)	(259,485)	(1,573,018)
Operating income (loss)	225,517	69,351	145,097	10,807	(42,302)	408,470
Nonoperating revenues	(334,509)	(173,318)	(373,467)	(111,955)	(143,231)	(1,136,480)
Loss before other changes in net position	(108,992)	(103,967)	(228,370)	(101,148)	(185,533)	(728,010)
Additions to permanent endowments	169,549	85,638	154,539	60,142	107,304	577,172
Change in net position	60,557	(18,329)	(73,831)	(41,006)	(78,229)	(150,838)
Net position – beginning of year	3,192,584	2,958,590	4,604,575	1,519,467	2,485,075	14,760,291
Net position – end of year	\$3,253,141	\$2,940,261	\$4,530,744	\$1,478,461	\$2,406,846	\$14,609,453
CONDENSED STATEMENT OF CASH FLOWS						
<i>Net cash provided (used) by:</i>						
Operating activities	(\$96,500)	(\$40,129)	\$190,147	(\$19,738)	(\$93,573)	(\$59,793)
Noncapital financing activities	135,136	104,945	138,413	51,191	86,041	515,726
Investing activities	(15,772)	87,592	(267,933)	(25,251)	4,361	(217,003)
Net change in cash and cash equivalents	22,864	152,408	60,627	6,202	(3,171)	238,930
Cash and cash equivalents – beginning of year	7,133	270,502	7,607	990	50,439	336,671
Cash and cash equivalents – end of year	\$29,997	\$422,910	\$68,234	\$7,192	\$47,268	\$575,601

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, 2021 is as follows:

UNIVERSITY OF CALIFORNIA CAMPUS FOUNDATIONS						
(in thousands of dollars)	BERKELEY	SAN FRANCISCO	LOS ANGELES	SAN DIEGO	ALL OTHER	TOTAL
CONDENSED STATEMENT OF NET POSITION						
Current assets	\$143,201	\$355,582	\$626,358	\$177,094	\$169,869	\$1,472,104
Noncurrent assets	3,230,450	2,706,512	4,096,561	1,481,869	2,372,994	13,888,386
Total assets	3,373,651	3,062,094	4,722,919	1,658,963	2,542,863	15,360,490
Current liabilities	17,176	47,306	26,390	61,453	7,910	160,235
Noncurrent liabilities	88,570	25,009	35,182	8,297	25,394	182,452
Total liabilities	105,746	72,315	61,572	69,750	33,304	342,687
Total deferred inflows of resources	75,321	31,189	56,772	69,746	24,484	257,512
Restricted	3,191,315	2,958,225	3,833,951	1,484,297	2,467,253	13,935,041
Unrestricted	1,269	365	770,624	35,170	17,822	825,250
Total net position	\$3,192,584	\$2,958,590	\$4,604,575	\$1,519,467	\$2,485,075	\$14,760,291
CONDENSED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION						
Operating revenues	\$294,167	\$427,982	\$300,694	\$136,569	\$151,958	\$1,311,370
Operating expenses	(342,886)	(376,959)	(380,188)	(73,651)	(216,523)	(1,390,207)
Operating income (loss)	(48,719)	51,023	(79,494)	62,918	(64,565)	(78,837)
Nonoperating revenues	793,094	617,611	924,378	339,089	550,027	3,224,199
Income before other changes in net position	744,375	668,634	844,884	402,007	485,462	3,145,362
Additions to permanent endowments	113,556	138,804	116,367	43,905	112,986	525,618
Change in net position	857,931	807,438	961,251	445,912	598,448	3,670,980
Net position – beginning of year	2,334,653	2,151,152	3,643,324	1,073,555	1,886,627	11,089,311
Net position – end of year	\$3,192,584	\$2,958,590	\$4,604,575	\$1,519,467	\$2,485,075	\$14,760,291
CONDENSED STATEMENT OF CASH FLOWS						
<i>Net cash provided (used) by:</i>						
Operating activities	(\$139,101)	(\$113,522)	(\$82,226)	\$71,041	(\$91,974)	(\$355,782)
Noncapital financing activities	89,615	119,858	104,112	39,153	67,675	420,413
Investing activities	50,449	(6,115)	(22,422)	(134,449)	26,728	(85,809)
Net change in cash and cash equivalents	963	221	(536)	(24,255)	2,429	(21,178)
Cash and cash equivalents – beginning of year	6,170	270,281	8,143	25,245	48,010	357,849
Cash and cash equivalents – end of year	\$7,133	\$270,502	\$7,607	\$990	\$50,439	\$336,671

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

22. COMMITMENTS AND CONTINGENCIES

Contractual Commitments

Amounts committed but unexpended for construction projects totaled \$3.1 billion at June 30, 2022. The University has a remaining commitment to contribute \$60.3 million for investments in joint ventures at June 30, 2022. The University has a remaining commitment for one of its campuses through 2036 to provide \$78.5 million for fire and other city-related services at June 30, 2022.

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.

23. SUBSEQUENT EVENTS

In September 2022, General Revenue Bonds totaling \$767.5 million, including \$702.3 million in tax-exempt bonds and \$65.2 million in 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 of the bonds, including a bond premium of \$121.6 million, were used to pay for project construction and issuance costs. The tax-exempt bonds have a stated weighted average interest rate of 5.0 percent. The taxable bonds have a stated weighted average interest rate of 4.5 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

In August 2022, the University priced \$318.0 million of tax-exempt General Revenue Bonds that are expected to be delivered in February 2023. Proceeds of the bonds, including a bond premium of \$39.9 million, will be used to pay for issuance costs and to repay \$348.8 million of outstanding General Revenue Bonds at the call date. The bonds will have a stated weighted average interest rate of 5.0 percent. The deferred premium will be amortized as a reduction to interest expense over the term of the bonds.

Required Supplementary Information (Unaudited)

UCRP

The schedule of changes in net pension liability includes multiyear 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>	2022	2021	2020	2019	2018
TOTAL PENSION LIABILITY					
Service cost	\$2,588,194	\$2,564,134	\$2,466,497	\$1,946,612	\$1,873,004
Interest on the total pension liability	6,633,210	6,311,412	5,981,599	5,576,660	5,295,733
Difference between expected and actual experience	284,807	462,839	(282,321)	334,605	138,419
Changes of assumptions or other inputs				7,816,717	
Benefits paid, including refunds of employee contributions	(4,534,161)	(4,299,910)	(3,944,998)	(3,816,434)	(3,587,554)
Net change in total pension liability	4,972,050	5,038,475	4,220,777	11,858,160	3,719,602
Total pension liability - beginning of year	97,663,860	92,625,385	88,404,608	76,546,448	72,826,846
Total pension liability - end of year	102,635,910	97,663,860	92,625,385	88,404,608	76,546,448
PLAN NET POSITION					
Contributions - employer	2,892,621	2,705,058	2,444,025	2,408,650	2,335,874
Contributions - member	1,105,405	1,053,939	1,019,302	956,543	941,144
Contributions - state				169,000	
Net investment income	(9,765,875)	21,439,296	1,184,938	4,018,595	4,837,552
Benefits paid, including refunds of employee contributions	(4,534,161)	(4,299,910)	(3,944,998)	(3,816,434)	(3,587,554)
Administrative expense	(84,760)	(64,826)	(65,989)	(61,981)	(36,684)
Net change in plan net position	(10,386,770)	20,833,557	637,278	3,505,373	4,659,332
Plan net position - beginning of year	91,749,798	70,916,241	70,278,963	66,773,590	62,114,258
Plan net position - end of year	81,363,028	91,749,798	70,916,241	70,278,963	66,773,590
Net pension liability - end of year	\$21,272,882	\$5,914,062	\$21,709,144	\$18,125,645	\$9,772,858
<i>(in thousands of dollars)</i>	2017	2016	2015	2014	2013
TOTAL PENSION LIABILITY					
Service cost	\$1,807,143	\$1,710,241	\$1,589,267	\$1,519,183	\$1,456,761
Interest on the total pension liability	5,035,267	4,784,904	4,538,846	4,316,728	4,112,461
Difference between expected and actual experience	74,664	136,167	(112,155)	(320,624)	(183,253)
Changes of assumptions or other inputs			2,136,793		(3,312,815)
Benefits paid, including refunds of employee contributions	(3,320,990)	(3,105,641)	(2,976,992)	(2,687,540)	(2,487,369)
Net change in total pension liability	3,596,084	3,525,671	5,175,759	2,827,747	(414,215)
Total pension liability - beginning of year	69,230,762	65,705,091	60,529,332	57,701,585	58,115,800
Total pension liability - end of year	72,826,846	69,230,762	65,705,091	60,529,332	57,701,585
PLAN NET POSITION					
Contributions - employer	2,385,576	2,426,683	2,510,046	1,580,876	810,056
Contributions - member	891,987	845,036	793,012	577,466	415,641
Contributions - state	171,000	96,000			
Net investment income	7,866,281	(1,104,655)	1,993,801	8,009,980	4,833,339
Benefits paid, including refunds of employee contributions	(3,320,990)	(3,105,642)	(2,976,993)	(2,687,540)	(2,487,369)
Administrative expense	(44,128)	(48,340)	(48,283)	(37,641)	(37,426)
Net change in plan net position	7,949,726	(890,918)	2,271,583	7,443,141	3,534,241
Plan net position - beginning of year	54,164,532	55,055,450	52,783,867	45,340,726	41,806,485
Plan net position - end of year	62,114,258	54,164,532	55,055,450	52,783,867	45,340,726
Net pension liability - end of year	\$10,712,588	\$15,066,230	\$10,649,641	\$7,745,465	\$12,360,859

There were no changes in benefit terms, the size or composition of the covered population and/or actuarial assumptions that significantly affected the total pension liability for the Plan year ended June 30, 2022.

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

<i>(in thousands of dollars)</i>	2022	2021	2020	2019	2018
Total pension liability	\$102,635,910	\$97,663,860	\$92,625,385	\$88,404,608	\$76,546,448
Plan net position	81,363,028	91,749,798	70,916,241	70,278,963	66,773,590
Net pension liability	\$21,272,882	\$5,914,062	\$21,709,144	\$18,125,645	\$9,772,858
Ratio of plan net position to total pension liability	79.3%	93.9%	76.6%	79.5%	87.2%
Covered payroll	\$13,921,086	\$13,215,494	\$13,056,696	\$12,168,209	\$11,923,489
Net pension liability as a percentage of covered payroll	152.8%	44.8%	166.3%	149.0%	82.0%

<i>(in thousands of dollars)</i>	2017	2016	2015	2014	2013
Total pension liability	\$72,826,846	\$69,230,762	\$65,705,091	\$60,529,332	\$57,701,585
Plan net position	62,114,258	54,164,532	55,055,450	52,783,867	45,340,726
Net pension liability	\$10,712,588	\$15,066,230	\$10,649,641	\$7,745,465	\$12,360,859
Ratio of plan net position to total pension liability	85.3%	78.2%	83.8%	87.2%	78.6%
Covered payroll	\$11,301,506	\$10,689,424	\$10,047,570	\$9,372,583	\$8,921,077
Net pension liability as a percentage of covered payroll	94.8%	140.9%	106.0%	82.6%	138.6%

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

(in thousands of dollars)

YEAR ENDED JUNE 30	ACTUARILY DETERMINED CONTRIBUTIONS	CONTRIBUTIONS IN RELATION TO ACTUARIAL CONTRIBUTIONS	CONTRIBUTION DEFICIENCY (EXCESS)	COVERED PAYROLL	CONTRIBUTIONS AS A PERCENTAGE OF COVERED PAYROLL
2022	\$3,712,774	\$2,892,621	\$820,153	\$13,921,086	21%
2021	3,523,568	2,705,058	818,510	13,215,494	20
2020	2,516,234	2,444,025	72,209	13,056,696	19
2019	2,742,671	2,408,650	334,021	12,168,209	20
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

NOTES TO SCHEDULE

Methods and assumptions used to determined contribution rates:

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	16.62 years as of July 1, 2021.
	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.
Inflation	2.50%.
Investment rate of return	6.75%, net of pension plan investment expenses, including inflation.
Projected salary increases	3.65-5.95%, varying by service, including inflation.
Cost-of-living adjustments ¹	4.41% for those who retired 7/2/2019 - 7/1/2020; 3.69% for all others eligible for COLA.
Mortality	Active and inactive: Pub-2010 Teacher Employee Amount-Weighted Above-Median Mortality Table. Healthy: Pub-2010 Healthy Teacher Amount-Weighted Above-Median Mortality Table, multiplied by 90 percent for male faculty members, 95 percent for female faculty members, 100 percent for other male members and 110 percent for other female members. Beneficiaries of retired members: Pub-2010 Contingent Survivor Amount-Weighted Above-Median Mortality Table multiplied by 100 percent for males and 90 percent for females. Disabled: Pub-2010 Non-Safety Disabled Retiree Amount-Weighted Mortality Table. All mortality tables listed above are projected generationally with the two-dimensional mortality improvement scale MP-2018.

¹Greater than the 2.00% assumption from the most recent experience study.

UC-VERIP

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

(in thousands of dollars)	2022	2021	2020	2019	2018
TOTAL PENSION LIABILITY					
Interest on the total pension liability	\$1,384	\$1,513	\$1,656	\$1,983	\$2,042
Difference between expected and actual experience	108	179	(1,342)	(79)	(436)
Changes of assumptions or other inputs				714	
Benefits paid, including refunds of employee contributions	(3,324)	(3,750)	(4,142)	(4,213)	(4,610)
Net change in total pension liability	(1,832)	(2,058)	(3,828)	(1,595)	(3,004)
Total pension liability - beginning of year	22,059	24,117	27,945	29,540	32,544
Total pension liability - end of year	20,227	22,059	24,117	27,945	29,540
PLAN NET POSITION					
Net investment income	(7,853)	18,277	1,049	3,748	4,885
Benefits paid, including refunds of employee contributions	(3,324)	(3,750)	(4,142)	(4,213)	(4,610)
Administrative expense	(3)	(4)	(4)	(5)	(5)
Net change in plan net position	(11,180)	14,523	(3,097)	(470)	270
Plan net position - beginning of year	76,204	61,681	64,778	65,248	64,978
Plan net position - end of year	65,024	76,204	61,681	64,778	65,248
Net pension surplus - end of year	(\$44,797)	(\$54,145)	(\$37,564)	(\$36,833)	(\$35,708)
(in thousands of dollars)	2017	2016	2015	2014	2013
TOTAL PENSION LIABILITY					
Interest on the total pension liability	\$2,463	\$2,533	\$2,704	\$2,857	\$3,052
Difference between expected and actual experience	(189)	(650)	242	(436)	(241)
Changes of assumptions or other inputs			1,837		
Benefits paid, including refunds of employee contributions	(4,738)	(4,937)	(5,081)	(5,169)	(5,278)
Net change in total pension liability	(2,464)	(3,054)	(298)	(2,748)	(2,467)
Total pension liability - beginning of year	35,008	38,062	38,360	41,108	43,575
Total pension liability - end of year	32,544	35,008	38,062	38,360	41,108
PLAN NET POSITION					
Net investment income	8,666	(1,425)	2,550	11,035	7,144
Benefits paid, including refunds of employee contributions	(4,738)	(4,937)	(5,081)	(5,169)	(5,278)
Administrative expense	(6)	(7)	(6)	(6)	(7)
Net change in plan net position	3,922	(6,369)	(2,537)	5,860	1,859
Plan net position - beginning of year	61,056	67,425	69,962	64,102	62,243
Plan net position - end of year	64,978	61,056	67,425	69,962	64,102
Net pension surplus - end of year	(\$32,434)	(\$26,048)	(\$29,363)	(\$31,602)	(\$22,994)

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

(in thousands of dollars)	2022	2021	2020	2019	2018
Total pension liability	\$20,227	\$22,059	\$24,117	\$27,945	\$29,540
Plan net position	65,024	76,204	61,681	64,778	65,248
Net pension surplus	(\$44,797)	(\$54,145)	(\$37,564)	(\$36,833)	(\$35,708)
Ratio of plan net position to total pension liability	321.5%	345.5%	255.8%	231.8%	220.9%

(in thousands of dollars)	2017	2016	2015	2014	2013
Total pension liability	\$32,544	\$35,008	\$38,062	\$38,360	\$41,108
Plan net position	64,978	61,056	67,425	69,962	64,102
Net pension surplus	(\$32,434)	(\$26,048)	(\$29,363)	(\$31,602)	(\$22,994)
Ratio of plan net position to total pension liability	199.7%	174.4%	177.1%	182.4%	155.9%

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:

(in thousands of dollars)	2022	2021	2020	2019	2018
TOTAL PENSION LIABILITY					
Service cost	\$15,775	\$14,873	\$12,648	\$11,430	\$11,304
Interest on the total pension liability	42,159	38,932	36,005	34,165	31,854
Changes of benefit terms					92
Difference between expected and actual experience	1,058	18,527	23,581	5,214	3,609
Changes of assumptions or other inputs	(22,525)	(2,413)	28,609	(9,540)	
Benefits paid, including refunds of employee contributions	(22,683)	(19,684)	(17,262)	(15,143)	(12,802)
Net change in total pension liability	13,784	50,235	83,581	26,126	34,057
Total pension liability - beginning of year	644,151	593,916	510,335	484,209	450,152
Total pension liability - end of year	657,935	644,151	593,916	510,335	484,209
PLAN NET POSITION					
Contributions - employer	37,452	31,752	31,200	31,200	33,600
Net investment income (loss)	(94,275)	111,835	(7,468)	25,203	33,269
Benefits paid, including refunds of employee contributions	(22,683)	(19,684)	(17,262)	(15,143)	(12,802)
Administrative expense	(4,062)	(3,600)	(3,598)	(2,711)	(3,014)
Net change in plan net position	(83,568)	120,303	2,872	38,549	51,053
Total plan net position - beginning of year	621,785	501,482	498,610	460,061	409,008
Total plan net position - end of year	538,217	621,785	501,482	498,610	460,061
Net pension liability - end of year	\$119,718	\$22,366	\$92,434	\$11,725	\$24,148

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

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

(in thousands of dollars)	2022	2021	2020	2019	2018
Total pension liability	\$657,935	\$644,151	\$593,916	\$510,335	\$484,209
Plan net position	538,217	621,785	501,482	498,610	460,061
Net pension liability	\$119,718	\$22,366	\$92,434	\$11,725	\$24,148
Ratio of plan net position to total pension liability					
Covered payroll	\$214,184	\$220,208	\$209,596	\$190,599	\$187,639
Net pension liability as a percentage of covered payroll	55.9%	10.2%	44.1%	6.2%	12.9%
(in thousands of dollars)	2017	2016	2015	2014	
Total pension liability	\$450,152	\$419,862	\$391,232	\$331,276	
Plan net position	409,008	353,446	340,557	320,064	
Net pension liability	\$41,144	\$66,416	\$50,675	\$11,212	
Ratio of plan net position to total pension liability					
Covered payroll	\$184,083	\$165,672	\$177,986	\$175,189	
Net pension liability as a percentage of covered payroll	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>	2022	2021	2020	2019	2018
Actuarially calculated employer contributions	\$11,050	\$15,270	\$22,070	\$17,870	\$7,710
Contributions in relation to the actuarially calculated employer contribution	37,452	31,752	31,200	31,200	33,600
Annual contribution deficiency (excess)	(\$26,402)	(\$16,482)	(\$9,130)	(\$13,330)	(\$25,890)
Covered payroll	214,184	\$220,208	\$209,596	\$190,599	\$187,639
Actual contributions as a percentage of covered payroll	17.5%	14.4%	14.9%	16.4%	17.9%
<hr/>					
<i>(in thousands of dollars)</i>	2017	2016	2015	2014	
Actuarially calculated employer contributions	\$5,642	\$7,823	\$12,239	\$21,282	
Contributions in relation to the actuarially calculated employer contribution	28,800	24,000	18,000	14,500	
Annual contribution deficiency (excess)	(\$23,158)	(\$16,177)	(\$5,761)	\$6,782	
Covered payroll	\$184,083	\$165,672	\$177,986	\$175,189	
Actual contributions as a percentage of covered payroll	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 fiscal year (for the Rep Plan) and as of July 1 of the beginning of the fiscal year (for the Unrep Plan) 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 to June 30, 2015, and after includes HATFA. The contribution for July 1, 2020 and after reflects the American Rescue Plan Act of 2021 (ARPA) and Infrastructure Investment and Jobs Act ("IIJA") of 2021. For the Rep plan, the actuarially determined contribution represents half of the prior plan year and half of the current plan year required minimum contribution amounts.
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 over a seven-year period from the valuation date as specified under PPA.
Remaining amortization period	15 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% and 2.75% for the Rep Plan and Unrep Plan, respectively.
Investment rate of return	6.75% and 6.5% for the Rep Plan and Unrep Plan, respectively (limited to the 3rd segment rate applicable for each year)
Projected salary increases	Represented employees: 3.75% for FYE22, 4.0% for FYE23 and FYE24 and 3.75% for FYE25 and annually thereafter; Unrepresented employees: 3.0% for FYE22 and 2023, 3.75% for FYE24 and thereafter.
Cost-of-living adjustments	N/A.
Mortality	IRS generational mortality table prescribed for the valuation year. RP-2014 total dataset mortality table for males or females (base year 2006), as appropriate, with MP-2019 generational for mortality improvements.

University Retiree Health Benefits Program

The schedule of changes in the net retiree health benefits liability includes multiyear 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:

<i>(in thousands of dollars)</i>	2022	2021	2020	2019
TOTAL RETIREE HEALTH BENEFITS LIABILITY				
Service cost	\$1,336,924	\$1,296,146	\$912,067	\$815,654
Interest on the total retiree health benefits liability	565,679	554,169	724,584	758,521
Changes of benefit terms			(29,315)	
Difference between expected and actual experience	177,238	(521,647)	(1,539,139)	(1,219,146)
Changes of assumptions or other inputs	(6,341,718)	212,837	4,354,033	1,124,039
Retiree contributions	90,710	88,625	86,166	85,820
Benefits paid	(565,532)	(551,760)	(546,616)	(512,824)
Net change in total retiree health benefits liability	(4,736,699)	1,078,370	3,991,095	1,022,749
Total retiree health benefits liability - beginning of year	25,088,060	24,009,690	20,018,595	18,995,846
Total retiree health benefits liability - end of year	20,351,361	25,088,060	24,009,690	20,018,595
PLAN NET POSITION				
University contributions	486,761	482,099	462,609	451,437
Retiree contributions	90,710	88,625	86,166	85,820
Net investment income	345	208	2,281	3,195
Insurance premiums	(565,532)	(551,760)	(546,616)	(512,824)
Other deductions	(4,431)	(4,369)	(4,531)	(4,300)
Net change in retiree health benefits net position	7,853	14,803	(91)	23,328
Retiree health benefits net position - beginning of year	171,621	156,818	156,909	133,581
Retiree health benefits net position - end of year	179,474	171,621	156,818	156,909
Net retiree health benefits liability - end of year	\$20,171,887	\$24,916,439	\$23,852,872	\$19,861,686

<i>(in thousands of dollars)</i>	2018	2017	2016	2015
TOTAL RETIREE HEALTH BENEFITS 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 retiree health benefits net position	26,867	34,173	21,896	(14,539)
Retiree health benefits net position - beginning of year	106,714	72,541	50,645	65,184
Retiree health benefits 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)	2022	2021	2020	2019
Total retiree health benefits liability	\$20,351,361	\$25,088,060	\$24,009,690	\$20,018,595
Retiree health benefits net position	179,474	171,621	156,818	156,909
Net retiree health benefits liability	\$20,171,887	\$24,916,439	\$23,852,872	\$19,861,686
Ratio of retiree health benefits net position to total retiree health benefits liability	0.9%	0.7%	0.7%	0.8%
Covered payroll	\$15,453,288	\$13,975,566	\$13,461,790	\$12,717,122
Net retiree health benefits liability as a percentage of covered payroll	130.5%	178.3%	177.2%	156.2%
Discount rate	3.54%	2.16%	2.21%	3.50%

(in thousands of dollars)	2018	2017	2016	2015
Total retiree health benefits liability	\$18,995,846	\$19,397,138	\$21,867,989	\$18,710,723
Retiree health benefits net position	133,581	106,714	72,541	50,645
Net retiree health benefits liability	\$18,862,265	\$19,290,424	\$21,795,448	\$18,660,078
Ratio of retiree health benefits net position to total retiree health benefits liability	0.7%	0.6%	0.3%	0.3%
Covered payroll	\$12,391,018	\$11,495,997	\$10,689,424	\$10,047,570
Net retiree health benefits liability as a percentage of covered payroll	152.2%	167.8%	203.9%	185.7%
Discount rate	3.87%	3.58%	2.85%	3.80%

NOTES TO SCHEDULE

Methods and assumptions used to determined contribution rates:

Mortality	<i>Active and inactive:</i> Pub-2010 Teacher Employee Amount-Weighted Above-Median Mortality Table. <i>Healthy:</i> Pub-2010 Healthy Teacher Amount-Weighted Above-Median Mortality Table, multiplied by 90 percent for male faculty members, 95 percent for female faculty members, 100 percent for other male members and 110 percent for other female members. <i>Beneficiaries of retired members:</i> Pub-2010 Contingent Survivor Amount-Weighted Above-Median Mortality Table multiplied by 100 percent for males and 90 percent for females. <i>Disabled:</i> Pub-2010 Non-Safety Disabled Retiree Amount-Weighted Mortality Table.
Changes of benefit terms	All mortality tables listed above are projected generationally with the two-dimensional mortality improvement scale MP-2018.
Changes of assumptions or other inputs	In 2019, University contributions for retirees age 65 and older not eligible for Medicare were reduced to levels comparable to Medicare-eligible retirees over a three-year period.

As of June 30	Health Care Cost Trend Rate
2022	1.4% to 14.6% decreasing to 3.9% in 2075
2021	2.7% to 7.5% decreasing to 4.0% in 2075
2020	2.7% to 9.0% decreasing to 4.0% in 2076
2019	4.4% to 9.4% decreasing to 4.0% in 2077
2018	5.0% to 9.3% decreasing to 5.0% in 2033
2017	5.0% to 9.5% decreasing to 5.0% in 2032
2016	6.3% to 9.0% decreasing to 5.0% in 2031
2015	6.6% to 10.0% decreasing to 5.0% in 2030

University of California Retiree Health Benefit Trust

The schedule of changes in the net retiree health benefits liability includes multiyear 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 benefits liability as of, and for, the year ending June 30 is:

(in thousands of dollars)	2022	2021	2020	2019
TOTAL RETIREE HEALTH BENEFIT LIABILITY				
Service cost	\$1,305,803	\$1,270,153	\$893,557	\$798,249
Interest on the total retiree health benefits liability	549,921	538,187	702,640	734,693
Changes of benefit terms			(28,401)	
Difference between expected and actual experience	138,495	(493,529)	(1,474,623)	(1,175,284)
Changes of assumptions or other inputs	(6,167,373)	206,722	4,222,620	1,091,609
Retiree contributions	87,861	85,607	83,111	82,710
Benefits paid	(544,166)	(529,804)	(525,262)	(490,615)
Net change in total retiree health benefits liability	(4,629,459)	1,077,336	3,902,043	1,012,961
Total retiree health benefits liability - beginning of year	24,380,432	23,303,096	19,401,053	18,388,092
Total retiree health benefits liability - end of year	19,750,973	24,380,432	23,303,096	19,401,053

(in thousands of dollars)	2022	2021	2020	2019
PLAN NET POSITION				
University contributions	468,244	463,161	444,310	432,338
Retiree contributions	87,861	85,607	83,111	82,710
Net investment income	345	208	2,281	3,195
Insurance premiums	(544,166)	(529,804)	(525,262)	(490,615)
Other deductions	(4,431)	(4,369)	(4,531)	(4,300)
Net change in UCRHBT net position	7,853	14,803	(91)	23,328
UCRHBT net position - beginning of year	171,621	156,818	156,909	133,581
UCRHBT net position - end of year	179,474	171,621	156,818	156,909
Net retiree health benefits liability - end of year	\$19,571,499	\$24,208,811	\$23,146,278	\$19,244,144

(in thousands of dollars)	2018	2017	2016	2015
TOTAL RETIREE HEALTH BENEFIT LIABILITY				
Service cost	\$816,483	\$981,745	\$806,817	\$683,320
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	2,376,176
Total retiree health benefits liability - beginning of year	18,786,201	21,168,812	18,095,670	15,719,494
Total retiree health benefits liability - end of year	18,388,092	18,786,201	21,168,812	18,095,670
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	\$18,254,511	\$18,679,487	\$21,096,271	\$18,045,025

UCRHBT's schedule of net retiree health benefits liability for campuses and medical centers as of June 30 is:

(in thousands of dollars)	2022	2021	2020	2019
Total retiree health benefits liability	\$19,750,973	\$24,380,432	\$23,303,096	\$19,401,053
UCRHBT net position	179,474	171,621	156,818	156,909
Net retiree health benefits liability	\$19,571,499	\$24,208,811	\$23,146,278	\$19,244,144
Ratio of UCRHBT net position to total retiree health benefits liability	0.9%	0.7%	0.7%	0.8%
Covered payroll	\$15,048,178	\$13,595,891	\$13,104,846	\$12,381,741
Net retiree health benefits liability as a percentage of covered payroll	130.1%	178.1%	176.6%	155.4%
Discount rate	3.54%	2.16%	2.21%	3.50%

(in thousands of dollars)	2018	2017	2016	2015
Total retiree health benefits liability	\$18,388,092	\$18,786,201	\$21,168,812	\$18,095,670
UCRHBT net position	133,581	106,714	72,541	50,645
Net retiree health benefits liability	\$18,254,511	\$18,679,487	\$21,096,271	\$18,045,025
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%
Discount rate	3.87%	3.58%	2.85%	3.80%

NOTES TO SCHEDULE

Methods and assumptions used to determined contribution rates:

Mortality	<i>Active and inactive:</i> Pub-2010 Teacher Employee Amount-Weighted Above-Median Mortality Table.
	<i>Healthy:</i> Pub-2010 Healthy Teacher Amount-Weighted Above-Median Mortality Table, multiplied by 90 percent for male faculty members, 95 percent for female faculty members, 100 percent for other male members and 110 percent for other female members.
	<i>Beneficiaries of retired members:</i> Pub-2010 Contingent Survivor Amount-Weighted Above-Median Mortality Table multiplied by 100 percent for males and 90 percent for females.
	<i>Disabled:</i> Pub-2010 Non-Safety Disabled Retiree Amount-Weighted Mortality Table.
	All mortality tables listed above are projected generationally with the two-dimensional mortality improvement scale MP-2018.
Changes of benefit terms	In 2019, University contributions for retirees age 65 and older not eligible for Medicare were reduced to levels comparable to Medicare-eligible retirees over a three-year period.
Changes of assumptions or other inputs	Changes of assumptions and other inputs primarily reflect the effects of changes in the discount rate and health care cost trend rate in each period. The following are the health care cost trend assumptions used in each period:

As of June 30	Health Care Cost Trend Rate
2022	1.4% to 14.6% decreasing to 3.9% in 2075
2021	2.7% to 7.5% decreasing to 4.0% in 2075
2020	2.7% to 9.0% decreasing to 4.0% in 2076
2019	4.4% to 9.4% decreasing to 4.0% in 2077
2018	5.0% to 9.3% decreasing to 5.0% in 2033
2017	5.0% to 9.5% decreasing to 5.0% in 2032
2016	6.3% to 9.0% decreasing to 5.0% in 2031
2015	6.6% to 10.0% decreasing to 5.0% in 2030

University of California
Summary Schedule of Expenditures of Federal Awards

*For the Fiscal Year Ended
June 30, 2022
(Expressed in Whole Dollars)*

Cluster	Total Expenditures
RESEARCH AND DEVELOPMENT CLUSTER	\$4,437,390,613
STUDENT FINANCIAL ASSISTANCE CLUSTER	1,685,144,194
TRIO CLUSTER	14,976,105
SNAP CLUSTER	13,896,255
HEALTH CENTER PROGRAM CLUSTER	4,876,230
FEDERAL TRANSIT CLUSTER	4,402,195
HIGHWAY SAFETY CLUSTER	4,056,289
477 CLUSTER	2,954,473
HEAD START CLUSTER	2,659,929
CCDF CLUSTER	1,654,076
ECONOMIC DEVELOPMENT CLUSTER	1,275,158
MEDICAID CLUSTER	824,425
WIOA CLUSTER	491,223
HIGHWAY PLANNING AND CONSTRUCTION CLUSTER	394,552
FMCSA CLUSTER	330,486
CDBG - ENTITLEMENT GRANTS CLUSTER	65,370
FISH AND WILDLIFE CLUSTER	24,068
OTHER FEDERAL PROGRAMS	1,348,648,501
Grand Total	\$7,524,064,142

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
RESEARCH AND DEVELOPMENT CLUSTER							
10.001	AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		\$9,942,430	\$124,190
10.001	AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH		PASS-THROUGH	ARKANSAS CHILDREN'S HOSPITAL RESEARCH INSTITUTE	034516	53,862	
10.001	AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH		PASS-THROUGH	ARKANSAS CHILDREN'S HOSPITAL RESEARCH INSTITUTE	3647	129,331	
10.001	AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH		PASS-THROUGH	CRDF GLOBAL	PXDR-D7166	47,393	
10.001	AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH		PASS-THROUGH	CRDF GLOBAL	DAA9-19-66139-1	34,487	
10.001	AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH		PASS-THROUGH	CRDF GLOBAL	CRDF-D8258	12,236	
10.001	AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH		PASS-THROUGH	CRDF GLOBAL	CRDF-77992	119,574	
10.001	AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	58-6080-0-017	12,615	
10.001	AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH		PASS-THROUGH	OREGON STATE UNIVERSITY	58-2072-0-026	257,605	
10.001	COVID-19 - AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH	COVID-19	PASS-THROUGH	CRDF GLOBAL	G-202101-67216	40,874	
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		6,380,783	414,715
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	011632	133,672	
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	011931	1,427	
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-1081-001-SF	11,718	
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0699-001-SF	2,782	
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0979-001-SF	(67)	
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	17-0426-001-SF	(374)	
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0608-0	1,811	
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	1-0145-001-SF	384	
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		PASS-THROUGH	UNIVERSITY OF FLORIDA	010885	(1,923)	
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		PASS-THROUGH	UNIVERSITY OF FLORIDA	011222	10,094	
10.168	FARMERS MARKET PROMOTION PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		114,308	79,309
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		DIRECT	DEPARTMENT OF DEFENSE		140,019	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		163,532	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	BACHAND & ASSOCIATES	2030.02-1.00	26,920	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-016-SF	167,009	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-041-SF	192,588	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	009926	83,422	67,055
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	010307	21,156	4,212
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	010360	28,960	25,668
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	010404	(133)	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	010498	(218)	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	011234	322,667	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	011250	176,676	12,974
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	011251	181,804	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	011665	162,137	58,573
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	012093	191,592	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	012215	126,009	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	A18-0352-001	54	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	000705282	15,186	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0001-062-SF	12,388	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0001-46A-SF	48	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	00010294	5,602	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-1046-001-SF	268,669	99,865
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	S-001305	(20,860)	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-028-SC	21,195	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-044-SC	4,480	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	A19-0949	15,532	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-054-SC	(292)	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-029-SC	60,404	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-053-SC	18,487	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-020-SC	23,203	3,729
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-057-SC	10,856	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-021-SC	34,746	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	A19-0312-5001	18,022	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-024-SC	28,018	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-039-SC	9,232	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-026-SC	53,975	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-030-SC	(5,635)	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-017-SC	50,613	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	A19-0267-5001	11,283	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-025-SC	26,917	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0001-016-SF	122,080	51,838
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0001-030-SF	120,032	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0001-036-SF	132,866	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0001-043-SF	194,503	41,797
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0001-033-SF	165,925	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0001-039-SF	116,025	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0001-038-SF	186,800	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0001-044-SF	55,539	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0001-017-SF	173,241	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	A21-1010-5001	158,638	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0001-040-SF	179,621	28,859
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0001-042-SF	105,484	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	A21-0411	141,834	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	A21-3116	42,548	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	17-0275-045-SC	(1,628)	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-013-SF	120,327	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-014-SF	32,453	5,112
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-015-SF	204,328	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-017-SF	89,996	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-019-SF	112,122	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-020-SF	334,383	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-021-SF	27,976	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-032-SF	143,201	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-037-SF	57,127	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-043-SF	92,564	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-050-SF	139,619	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-054-SF	113,929	(26)
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-059-SF	207,174	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-018-SF	149,968	41,754
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	A20-1075-5001	91,368	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0730-001-SF	4,926	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0001-034-SF	53,909	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	37D63-000	(9,729)	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	37D63-051	9,529	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0001-0	99,343	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	83D85-051	56,372	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	83D85-000	2,724	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0433-0	19,531	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0001-052-SF	2,783	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0001-051-SF	2,691	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0001-057-SF	108,218	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0001-044-SF	2,452	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	1-0001-056-SF	20,574	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	CDFA-83D66	24,723	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	CDFA-83D88	135,290	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	CDFA-84D16	50,705	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	CDFA-84D41	39,159	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	CDFA-84D45	52,162	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	CDFA-84D46	46,068	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	CDFA-84D47	1,171	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	CDFA-84D98	76,069	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0732-0	28,067	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE/MISCELLANEOUS	19-1044	313,836	176,934
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CENTER FOR PRODUCE SAFETY	2021CPS08	110,961	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CENTER FOR PRODUCE SAFETY	2021CPS13	79,832	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	RIVERSIDE UNIFIED SCHOOL DISTRICT	Y19-4506	58,883	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	TEXAS A&M AGRILIFE RESEARCH	TX-SCM-17-04	109,685	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	UNIVERSITY CORPORATION AT MONTEREY BAY	2022021450611	16,583	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	UNIVERSITY OF ARIZONA	644501	6,924	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	UNIVERSITY OF ARIZONA	59537	24,404	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	UNIVERSITY OF FLORIDA	P0153739/SUB000	23,312	
10.175	FARMERS MARKET AND LOCAL FOOD PROMOTION PROGRAM		PASS-THROUGH	COMMUNITY ALLIANCE WITH FAMILY FARMERS	Y20-5191	8,747	
10.177	REGIONAL FOOD SYSTEM PARTNERSHIPS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		135,407	4,890
10.177	REGIONAL FOOD SYSTEM PARTNERSHIPS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	CDFA-84D43	52,866	
10.177	REGIONAL FOOD SYSTEM PARTNERSHIPS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	CDFA-84D54	17,030	
10.177	REGIONAL FOOD SYSTEM PARTNERSHIPS		PASS-THROUGH	GREEN TECHNICAL EDUCATION AND EMPLOYMENT	Y20-5157	14,519	
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		1,141,098	418,438
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		PASS-THROUGH	MICHIGAN STATE UNIVERSITY	20187000730417	9,351	
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		PASS-THROUGH	MISSISSIPPI STATE UNIVERSITY	20163850025752_20183850028888	10,652	
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	2021-2884-03	2,355,193	171,050
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		PASS-THROUGH	TEXAS A&M RESEARCH FOUNDATION	M2000229-A	6,959	
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		PASS-THROUGH	TEXAS A&M RESEARCH FOUNDATION	M2000229-B	2,724	
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		PASS-THROUGH	TEXAS A&M RESEARCH FOUNDATION	M2103087-B	24,445	
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		PASS-THROUGH	TEXAS A&M RESEARCH FOUNDATION	M2103	6,588	
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	2018-38500-28889	61,752	
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11795	22,006	
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	2018-38500	19,134	
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC12912	4,701	
10.200	GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC13307	6,376	
10.202	COOPERATIVE FORESTRY RESEARCH		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		598,343	
10.203	PAYMENTS TO AGRICULTURAL EXPERIMENT STATIONS UNDER THE HATCH ACT		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		5,682,363	
10.207	ANIMAL HEALTH AND DISEASE RESEARCH		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		246,385	
10.207	ANIMAL HEALTH AND DISEASE RESEARCH		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	20-0438-001-SF	72,417	
10.210	HIGHER EDUCATION – GRADUATE FELLOWSHIPS GRANT PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		59,353	
10.212	SMALL BUSINESS INNOVATION RESEARCH		PASS-THROUGH	ADVANCED COOLING TECHNOLOGIES, INC.	41276	109,838	
10.212	SMALL BUSINESS INNOVATION RESEARCH		PASS-THROUGH	CHI BOTANIC, INC	21101299	31,854	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		22,169	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	AMADOR RESOURCE CONSERVATION DISTRICT	Y18-4430	4,545	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G112-21-W7899	38,311	1,907

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10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G170-21-W7902	16,714	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	012069	22,060	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	20193864029880	116,175	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G255-19-W7500	74,950	19,756
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G165-20-W7503	10,069	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G334-20-W7899	126,956	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G233-22	11,674	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G236-21-W7	14,897	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	MSU-35C03	19,153	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G276-21-W8	30,426	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	UNIVERSITY OF MINNESOTA	GNC21-316	14,849	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	UTAH STATE UNIVERSITY	201207-556	4,938	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	UTAH STATE UNIVERSITY	201207-677	64,792	13,775
10.217	HIGHER EDUCATION - INSTITUTION CHALLENGE GRANTS PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		103,509	23,061
10.219	BIOTECHNOLOGY RISK ASSESSMENT RESEARCH		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		102,011	
10.220	HIGHER EDUCATION - MULTICULTURAL SCHOLARS GRANT PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		138,780	
10.223	HISPANIC SERVING INSTITUTIONS EDUCATION GRANTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		270,177	
10.223	HISPANIC SERVING INSTITUTIONS EDUCATION GRANTS		PASS-THROUGH	UNIVERSITY CORPORATION AT MONTEREY BAY	50601211221SA	17,001	
10.226	SECONDARY AND TWO-YEAR POSTSECONDARY AGRICULTURE EDUCATION CHALLENGE GRANTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		53,467	46,626
10.226	SECONDARY AND TWO-YEAR POSTSECONDARY AGRICULTURE EDUCATION CHALLENGE GRANTS		PASS-THROUGH	MONTANA STATE UNIVERSITY	G189-20-W7990	1,755	
10.227	1994 INSTITUTIONS RESEARCH PROGRAM		PASS-THROUGH	NORTHWEST INDIAN COLLEGE	A19-0376-001	1,590	
10.250	AGRICULTURAL AND RURAL ECONOMIC RESEARCH, COOPERATIVE AGREEMENTS AND COLLABORATIONS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		179,044	
10.253	CONSUMER DATA AND NUTRITION RESEARCH		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		72,263	
10.290	AGRICULTURAL MARKET AND ECONOMIC RESEARCH		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		36,611	
10.303	INTEGRATED PROGRAMS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		516,552	63,070
10.304	HOMELAND SECURITY AGRICULTURAL		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		602,548	304,122
10.307	ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		370,834	66,048
10.307	ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE		PASS-THROUGH	CORNELL UNIVERSITY	90033-20655	93,788	
10.307	ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE		PASS-THROUGH	IOWA STATE UNIVERSITY	2019-51300-30244	193,134	
10.307	ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE		PASS-THROUGH	OREGON STATE UNIVERSITY	20205130032179	48,041	
10.307	ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE		PASS-THROUGH	OREGON STATE UNIVERSITY	C0591B-B	97,540	
10.307	ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE		PASS-THROUGH	UNIVERSITY OF ARKANSAS SYSTEM DIVISION OF AGRICULTURE	AWD-1011	9,083	
10.307	ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00002425	53,323	
10.307	ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE		PASS-THROUGH	UNIVERSITY OF GEORGIA	SUB00001849	84,661	
10.307	ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE		PASS-THROUGH	UNIVERSITY OF GEORGIA	SUB00001850	45,673	
10.308	RESIDENT INSTRUCTION GRANTS FOR INSULAR AREA ACTIVITIES		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		109,920	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		11,693,721	3,739,431
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.	20207002933196	260,496	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	CLEMSON UNIVERSITY	2020-51181-32142	123,561	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	CORNELL UNIVERSITY	8198010922	311,893	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	MICHIGAN STATE UNIVERSITY	011989	25,990	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	2016-0228-06	(332)	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	2017-0398-09	44,859	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	011252	27,022	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	201602957-02	72,537	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	2016-51181-25404	13,295	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	OREGON STATE UNIVERSITY	C0565B-A	37,584	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	OREGON STATE UNIVERSITY	C0598B-A	60,218	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	0854-PP2018-BETHKE	45,430	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	0849-PP2018-NINO	25,874	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	TENNESSEE STATE UNIVERSITY	P0143090	104,149	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	TEXAS A&M RESEARCH FOUNDATION	06-M1703435	7,920	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	UNIVERSITY OF FLORIDA	009522	66,269	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	UNIVERSITY OF FLORIDA	012039	3,214	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	UNIVERSITY OF FLORIDA	20197001629096	23,117	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	UNIVERSITY OF FLORIDA	2020-51181-32157	71,959	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	UNIVERSITY OF GEORGIA	SUB00002409	80,923	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	UNIVERSITY OF GEORGIA	SUB0000KENT	156	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	9439425234202	5,482	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	WASHINGTON STATE UNIVERSITY	133336-G003926	34,131	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	WASHINGTON STATE UNIVERSITY	133336-G003925	163,691	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	WASHINGTON STATE UNIVERSITY	137743-G004250	227,079	

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10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	WASHINGTON STATE UNIVERSITY	133321-G004110	63,080	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		DIRECT	NATIONAL SCIENCE FOUNDATION		83,301	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		23,820,030	5,032,714
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS THROUGH	CORNELL UNIVERSITY	SUB 88230-20118 (2020-67013...)	5,315	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	ARIZONA STATE UNIVERSITY	ASUB000ARTHUR	90,590	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	AUBURN UNIVERSITY	20-CSES-205208-UCDAVIS	(15,925)	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	AUBURN UNIVERSITY	20BIOSYS205217	46,329	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	COLORADO STATE UNIVERSITY	G-50136-01	11,664	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	COLORADO STATE UNIVERSITY	G89706	24,400	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	COLORADO STATE UNIVERSITY	021-68014-	105,367	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	COLORADO STATE UNIVERSITY	G-03419-02	77,614	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	CORNELL UNIVERSITY	SUB 88230-20118 (2020-67013...)	156,008	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	CORNELL UNIVERSITY	010974	32,096	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	CORNELL UNIVERSITY	37536-20961	311	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	FAIR FOOD NETWORK	SUBAWARD NONE (2019-70030-3...)	34,796	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	IOWA STATE UNIVERSITY	SCN-1011340	2,428	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	IOWA STATE UNIVERSITY	416-41-87A	149,112	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	KANSAS STATE UNIVERSITY	20166800725066	12	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	MICHIGAN STATE UNIVERSITY	RC111302F	83,132	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	MISSISSIPPI STATE UNIVERSITY	011413	(3,225)	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	MISSISSIPPI STATE UNIVERSITY	MSU-77976	124,367	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	MOUNT SAINT VINCENT UNIVERSITY	2021-101	17,441	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	010731	12,743	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	NORTH DAKOTA STATE UNIVERSITY	FAR00	6,590	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	NORTH DAKOTA STATE UNIVERSITY	FAR0034531	47,459	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	OHIO STATE UNIVERSITY	20186800327466	124,365	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	OREGON STATE UNIVERSITY	2018-67023-27690	39,905	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	OREGON STATE UNIVERSITY	C0597B-B	53	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	6087-UCD	94,652	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	TEXAS A&M RESEARCH FOUNDATION	M1701755	46,860	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	009234	62,117	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	TEXAS TECH UNIVERSITY	21A599-02	10,618	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	TEXAS TECH UNIVERSITY	2019-67015-29865	27,387	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	TEXAS TECH UNIVERSITY	21A564-01	26,279	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1561489	10,497	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF CONNECTICUT	366075	49,193	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF FLORIDA	009625	116,183	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF FLORIDA	2019-67021-29691	35,951	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00001916	(12,874)	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF GEORGIA	RC398-139/S000790	48,622	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF MARYLAND EASTERN SHORE	SUB DHEK150 VITIS UCSD2021 ...	14,940	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	20206701530770	142,155	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF MINNESOTA	H008208105	7,203	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF MINNESOTA	H008125601	86,838	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF MINNESOTA	P008679101	26,082	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF MINNESOTA	P009546301	20,497	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF MISSOURI	010799	60,973	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF NEBRASKA-LINCOLN	25-6222-0937-002	67,504	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT GREENSBORO	009009	208	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF OKLAHOMA	2021-30	7,967	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF OREGON	239120A	109,771	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF TENNESSEE	009776	(631)	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	UNIVERSITY OF TEXAS AT ARLINGTON	2020G	11,210	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	SUB 422692-19A28 (2019-67013-2	87,166	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		PASS-THROUGH	WASHINGTON STATE UNIVERSITY	137553SPC001708	33,020	
10.310	COVID-19 - AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	COVID-19	PASS-THROUGH	UNIVERSITY OF MINNESOTA	H008727302	54,588	
10.311	BEGINNING FARMER AND RANCHER DEVELOPMENT PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		130,463	60,284
10.320	SUN GRANT PROGRAM		PASS-THROUGH	UNIVERSITY OF TENNESSEE	9500098857	39,966	
10.328	NATIONAL FOOD SAFETY TRAINING, EDUCATION, EXTENSION, OUTREACH, AND TECHNICAL ASSISTANCE COMPETITIVE GRANTS PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		226,127	58,603
10.328	NATIONAL FOOD SAFETY TRAINING, EDUCATION, EXTENSION, OUTREACH, AND TECHNICAL ASSISTANCE COMPETITIVE GRANTS PROGRAM		PASS-THROUGH	OREGON STATE UNIVERSITY	C0537A-C	27,203	
10.328	NATIONAL FOOD SAFETY TRAINING, EDUCATION, EXTENSION, OUTREACH, AND TECHNICAL ASSISTANCE COMPETITIVE GRANTS PROGRAM		PASS-THROUGH	OREGON STATE UNIVERSITY	C0595B-C	2,246	
10.329	CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		108,569	47,136
10.329	CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS PROGRAM		PASS-THROUGH	UNIVERSITY OF ARIZONA	20177000627273	8,574	
10.329	CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS PROGRAM		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	2021-70006-3	9,045	
10.330	ALFALFA AND FORAGE RESEARCH PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		(71,116)	(42,145)
10.330	ALFALFA AND FORAGE RESEARCH PROGRAM		PASS-THROUGH	MONTANA STATE UNIVERSITY	G251-22-W9	94,052	
10.330	ALFALFA AND FORAGE RESEARCH PROGRAM		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	2018-70005-28737	11,967	
10.331	FOOD INSECURITY NUTRITION INCENTIVE GRANTS PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		1,026,052	
10.331	FOOD INSECURITY NUTRITION INCENTIVE GRANTS PROGRAM		PASS-THROUGH	CHN NEBRASKA	A135208	3,818	
10.331	FOOD INSECURITY NUTRITION INCENTIVE GRANTS PROGRAM		PASS-THROUGH	CHN NEBRASKA	Y21-5733	5,000	
10.500	COOPERATIVE EXTENSION SERVICE		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		3,020,827	187,208
10.500	COOPERATIVE EXTENSION SERVICE		PASS-THROUGH	PROJECT APIS M.	286	11,527	
10.519	EQUIPMENT GRANTS PROGRAM (EGP)		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		41,312	
10.525	FARM AND RANCH STRESS ASSISTANCE NETWORK COMPETITIVE GRANTS PROGRAM		PASS-THROUGH	WASHINGTON STATE UNIVERSITY	2020-70028-32731	74,342	
10.557	SPECIAL SUPPLEMENTAL NUTRITION PROGRAM FOR WOMEN, INFANTS, AND CHILDREN (WIC)		PASS-THROUGH	TUFTS UNIVERSITY	AG9027	11,956	
10.604	TECHNICAL ASSISTANCE FOR SPECIALTY CROPS PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		337,140	
10.604	TECHNICAL ASSISTANCE FOR SPECIALTY CROPS PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		83,660	
10.604	TECHNICAL ASSISTANCE FOR SPECIALTY CROPS PROGRAM		PASS-THROUGH	CALIFORNIA AGRICULTURAL EXPORT COUNCIL, INC.	T21-02	1,746	
10.604	TECHNICAL ASSISTANCE FOR SPECIALTY CROPS PROGRAM		PASS-THROUGH	CALIFORNIA CITRUS RESEARCH BOARD	011713	138,399	
10.604	TECHNICAL ASSISTANCE FOR SPECIALTY CROPS PROGRAM		PASS-THROUGH	CALIFORNIA CITRUS RESEARCH BOARD	011714	5,927	
10.604	TECHNICAL ASSISTANCE FOR SPECIALTY CROPS PROGRAM		PASS-THROUGH	CALIFORNIA CITRUS RESEARCH BOARD	20-5050-010	135,542	
10.604	TECHNICAL ASSISTANCE FOR SPECIALTY CROPS PROGRAM		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	A19-3112-5001	72	
10.652	FORESTRY RESEARCH		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		38,550	
10.652	FORESTRY RESEARCH		PASS-THROUGH	OREGON STATE UNIVERSITY	J2460A-A	622	
10.664	COOPERATIVE FORESTRY ASSISTANCE		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		15,677	
10.674	WOOD UTILIZATION ASSISTANCE		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		75,600	
10.675	URBAN AND COMMUNITY FORESTRY PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION	18-DG-11052021-212	64,303	
10.675	URBAN AND COMMUNITY FORESTRY PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION	8GA2	119,610	
10.680	FOREST HEALTH PROTECTION		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		513,438	
10.682	NATIONAL FOREST FOUNDATION		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		6,577	
10.684	INTERNATIONAL FORESTRY PROGRAMS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		105,357	
10.688	RECOVERY ACT OF 2009: WILDLAND FIRE MANAGEMENT		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		(1,773)	
10.699	PARTNERSHIP AGREEMENTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		133,620	
10.707	RESEARCH JOINT VENTURE AND COST REIMBURSABLE AGREEMENTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		154,968	
10.902	SOIL AND WATER CONSERVATION		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		314,753	
10.902	SOIL AND WATER CONSERVATION		PASS-THROUGH	UNIVERSITY OF ARIZONA	588433	146,560	
10.903	SOIL SURVEY		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		38,599	
10.903	SOIL SURVEY		PASS-THROUGH	CITY UNIVERSITY OF NEW YORK	CM00003618-00	1,573	
10.912	ENVIRONMENTAL QUALITY INCENTIVES PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		259,779	112,477
10.912	ENVIRONMENTAL QUALITY INCENTIVES PROGRAM		PASS-THROUGH	OKLAHOMA STATE UNIVERSITY	3-580990 UCANR1	83,257	
10.912	ENVIRONMENTAL QUALITY INCENTIVES PROGRAM		PASS-THROUGH	TEXAS A&M AGRILIFE RESEARCH	M2102131 324	33,502	
10.960	TECHNICAL AGRICULTURAL ASSISTANCE		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		52,906	
10.961	SCIENTIFIC COOPERATION AND RESEARCH		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		39,199	
10.962	COCHRAN FELLOWSHIP PROGRAM-INTERNATIONAL TRAINING-FOREIGN PARTICIPANT		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		295	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	011761	534	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	17-JV-11272138-028	10,012	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272131-063	1,251	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272138-010	21,213	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272139-049	1,670	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272138-043	32,363	28,740
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-029	15,203	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-041	20,342	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-035	210	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2030-0-027	21,849	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-037	5,324	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-038	6,432	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-044	38,983	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	A21-2270	11,977	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-064	8,368	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-046	3,848	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2030-0-044	1,565	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-048	5,821	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-058	9,227	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-065	14,060	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-066	466	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2030-0-023	10,088	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272139-079	90,996	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-056	66,519	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-CR-11272167-073	8,476	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2030-0-042	294	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-PA-11272138-055	326,911	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-CS-11052007-070	111,649	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	17CS11052007074	109,183	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-1-001	32,098	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-1-015	12,044	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-1-009	59,392	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-5062-7-018	6,943	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	19-CS-11052007-038	32,604	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032	47,610	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	16PA11272138018	61,923	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-9-057	(426)	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	19-JV-11272139-041	21,115	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	19-JV-11272138-074	73,858	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272139-04	4,822	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272139-019	34,789	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272139-023	93,739	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272139-025	8,808	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	16JV11272131065	4,106	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	18-JV-11272139-031	96,228	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272167-021	3,544	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	18-JV-11272139-025	35,450	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	18-JV-11272131-063	4,367	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	22-CS-1105200	31,105	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	21-JV-1127213	71,094	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	2021-7007	22,847	
10.RD	FEDERAL CONTRACTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	22-JV-1127213	17,383	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0741-000-SA	20,250	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	CENTER FOR PRODUCE SAFETY	2022CP506	14,479	602
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	CHN NEBRASKA	A21-2007	50,515	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	CHN NEBRASKA	2019-70030-3	1,115	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	DAIRY MANAGEMENT INC	3379-0	4,972	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	DAIRY MANAGEMENT INC	A22-2411	19,851	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	DAIRY RESEARCH INSTITUTE	80D41-051	24,200	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	DAIRY RESEARCH INSTITUTE	80D41-000	18,074	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	FOUNDATION FOR FOOD AND AGRICULTURE RESEARCH	550830	205,365	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL DAIRY COUNCIL	30126701	22,486	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL FISH AND WILDLIFE FOUNDATION	0806.19.064532	55,080	33,367
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL FISH AND WILDLIFE FOUNDATION	0806.19.064580	48,137	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL FISH AND WILDLIFE FOUNDATION	0806.20.067936	63,233	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	TUFTS UNIVERSITY	H006588501	5,528	
10.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MINNESOTA	104049-00001:AG003	13,358	
11.001	CENSUS BUREAU DATA PRODUCTS		DIRECT	NATIONAL SCIENCE FOUNDATION	30126701	2,214	
11.001	CENSUS BUREAU DATA PRODUCTS		PASS-THROUGH	CALIFORNIA AIR RESOURCES BOARD	21ISD003	478,811	
11.001	CENSUS BUREAU DATA PRODUCTS		PASS-THROUGH	CALIFORNIA RURAL INDIAN HEALTH BOARD, INC.	A22-0029	22,024	
11.001	CENSUS BUREAU DATA PRODUCTS		PASS-THROUGH	KERN COUNTY COMMUNITY COLLEGE DISTRICT	A21-0138	1,444	
11.001	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		DIRECT	NATIONAL SCIENCE FOUNDATION	H006588501	53,481	
11.011	OCEAN EXPLORATION		DIRECT	DEPARTMENT OF COMMERCE (DOC)	NA000110428-2	58,399	
11.011	OCEAN EXPLORATION		PASS-THROUGH	NATIONAL HISTORY MUSEUM OF LOS ANGELES COUNTY	AGREEMENT NO. SA000110428-2	1,100,140	11,055
11.012	COVID-19 - INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)	COVID-19	DIRECT	DEPARTMENT OF COMMERCE (DOC)	17,737	950	
11.012	INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)		DIRECT	DEPARTMENT OF COMMERCE (DOC)	1911082	2,529,605	618,067
11.012	INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)		PASS-THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	1911082	510	
11.012	INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)		PASS-THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	1911082	49,359	
11.012	INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)		PASS-THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	PO-2111127	98,372	
11.012	INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)		PASS-THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	A16-0171-007	202,992	
11.012	INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)		PASS-THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	1611447	149,076	
11.012	INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)		PASS-THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	NA21NOS01	196,848	
11.012	INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)		PASS-THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	2111180	66,628	
11.012	INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)		PASS-THROUGH	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A101505	16,287	
11.017	OCEAN ACIDIFICATION PROGRAM (OAP)		DIRECT	DEPARTMENT OF COMMERCE (DOC)	469,667	120,463	
11.020	CLUSTER GRANTS		DIRECT	DEPARTMENT OF COMMERCE (DOC)	9,464		

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
11.020	CLUSTER GRANTS		PASS-THROUGH	CLEANTECH SAN DIEGO ASSOCIATION	012272	78,505	
11.020	CLUSTER GRANTS		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	54878	16,972	
11.021	NOAA SMALL BUSINESS INNOVATION RESEARCH (SBIR) PROGRAM		PASS THROUGH	DIVEVIZ LLC	DiveViz 002	12,794	
11.021	NOAA SMALL BUSINESS INNOVATION RESEARCH (SBIR) PROGRAM		PASS-THROUGH	DIVEVIZ LLC	DiveViz 002	663	
11.022	BIPARTISAN BUDGET ACT OF 2018		PASS-THROUGH	PACIFIC STATES MARINE FISHERIES COMMISSION	21-049G	166,949	
11.022	BIPARTISAN BUDGET ACT OF 2018		PASS-THROUGH	PACIFIC STATES MARINE FISHERIES COMMISSION	A20-0832-001	133,588	
11.405	COOPERATIVE INSTITUTE (INTER-AGENCY FUNDED ACTIVITIES)		DIRECT	DEPARTMENT OF COMMERCE (DOC)		261,969	
11.407	INTERJURISDICTIONAL FISHERIES ACT OF 1986		PASS-THROUGH	PACIFIC STATES MARINE FISHERIES COMMISSION	22-0	3,404	
11.417	SEA GRANT SUPPORT		DIRECT	DEPARTMENT OF COMMERCE (DOC)		(169,419)	809,125
11.417	SEA GRANT SUPPORT		PASS-THROUGH	UC SEA GRANT COLLEGE PROGRAM	NA18OAR41	28,897	
11.417	SEA GRANT SUPPORT		PASS-THROUGH	UNIVERSITY OF ALASKA SYSTEM	UA 21-0023	18,575	
11.417	SEA GRANT SUPPORT		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	129407351	75,077	
11.417	SEA GRANT SUPPORT		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC13056	6,071	
11.419	COASTAL ZONE MANAGEMENT ADMINISTRATION AWARDS		PASS-THROUGH	PORTLAND STATE UNIVERSITY	100189	53,635	
11.420	COASTAL ZONE MANAGEMENT ESTUARINE RESEARCH RESERVES		DIRECT	DEPARTMENT OF COMMERCE (DOC)		94,690	
11.427	FISHERIES DEVELOPMENT AND UTILIZATION RESEARCH AND DEVELOPMENT GRANTS AND COOPERATIVE AGREEMENTS PROGRAM		DIRECT	DEPARTMENT OF COMMERCE (DOC)		101,878	
11.431	CLIMATE AND ATMOSPHERIC RESEARCH		DIRECT	DEPARTMENT OF COMMERCE (DOC)		5,350,348	511,812
11.431	CLIMATE AND ATMOSPHERIC RESEARCH		PASS-THROUGH	GLOBAL SCIENCES & TECHNOLOGY, INC.	PSA-PROTECH-18-UCI01	9,069	
11.431	CLIMATE AND ATMOSPHERIC RESEARCH		PASS-THROUGH	RIVERSIDE TECHNOLOGY, INC.	PROTECH-UCI	5,549	
11.431	CLIMATE AND ATMOSPHERIC RESEARCH		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	M2200242-02-404111-01001	6,658	
11.431	CLIMATE AND ATMOSPHERIC RESEARCH		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	M2200246-02-404181-01001	158	
11.431	CLIMATE AND ATMOSPHERIC RESEARCH		PASS-THROUGH	UNIVERSITY OF MIAMI	OS00000353	30,673	
11.431	CLIMATE AND ATMOSPHERIC RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUB K00011126(DE-NA0003944)	17,704	
11.431	CLIMATE AND ATMOSPHERIC RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH CAROLINA	20-3984	21,956	
11.431	COVID-19 - CLIMATE AND ATMOSPHERIC RESEARCH	COVID-19	DIRECT	DEPARTMENT OF COMMERCE (DOC)		15,620	
11.432	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) COOPERATIVE INSTITUTES		DIRECT	DEPARTMENT OF COMMERCE (DOC)		11,792,406	534,459
11.432	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) COOPERATIVE INSTITUTES		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	UMCP-77687	18	
11.432	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) COOPERATIVE INSTITUTES		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	UMD-77948	17,136	
11.433	MARINE FISHERIES INITIATIVE		DIRECT	DEPARTMENT OF COMMERCE (DOC)		-	
11.438	PACIFIC COAST SALMON RECOVERY PACIFIC SALMON TREATY PROGRAM		PASS-THROUGH	BERING SEA FISHERMEN'S ASSOCIATION	A19-0747-001	69,765	
11.439	MARINE MAMMAL DATA PROGRAM		DIRECT	DEPARTMENT OF COMMERCE (DOC)		167,488	32,978
11.451	GULF COAST ECOSYSTEM RESTORATION SCIENCE, OBSERVATION, MONITORING, AND TECHNOLOGY		PASS-THROUGH	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	A20-0172-001	82,467	
11.454	UNALLIED MANAGEMENT PROJECTS		DIRECT	DEPARTMENT OF COMMERCE (DOC)		13,999	
11.459	WEATHER AND AIR QUALITY RESEARCH		DIRECT	DEPARTMENT OF COMMERCE (DOC)		344,373	52,353
11.460	SPECIAL OCEANIC AND ATMOSPHERIC PROJECTS		DIRECT	DEPARTMENT OF COMMERCE (DOC)		315,655	
11.460	SPECIAL OCEANIC AND ATMOSPHERIC PROJECTS		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	1569	66,630	
11.463	HABITAT CONSERVATION		PASS-THROUGH	NATIONAL FISH AND WILDLIFE FOUNDATION	NFWF 300217057783	25,133	
11.468	APPLIED METEOROLOGICAL RESEARCH		PASS-THROUGH	DESERT RESEARCH INSTITUTE	GR09348	80,665	
11.472	UNALLIED SCIENCE PROGRAM		DIRECT	DEPARTMENT OF COMMERCE (DOC)		125,958	3,656
11.472	UNALLIED SCIENCE PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	P1970003	760,844	
11.472	UNALLIED SCIENCE PROGRAM		PASS-THROUGH	NORTH PACIFIC RESEARCH BOARD	1810-90/1779	5,026	
11.472	UNALLIED SCIENCE PROGRAM		PASS-THROUGH	NORTH PACIFIC RESEARCH BOARD	NPRB 2117	17,620	
11.472	UNALLIED SCIENCE PROGRAM		PASS-THROUGH	PACIFIC STATES MARINE FISHERIES COMMISSION	21-145G	59,112	30,789
11.472	UNALLIED SCIENCE PROGRAM		PASS-THROUGH	PACIFIC STATES MARINE FISHERIES COMMISSION	PSMFC GRANT NO. 20-159G	74,388	
11.473	OFFICE FOR COASTAL MANAGEMENT		PASS-THROUGH	CALIFORNIA FIRE SAFE COUNCIL, INC.	20NFWF353968	19,161	
11.478	CENTER FOR SPONSORED COASTAL OCEAN RESEARCH COASTAL OCEAN PROGRAM		DIRECT	DEPARTMENT OF COMMERCE (DOC)		1,302,500	377,489
11.478	CENTER FOR SPONSORED COASTAL OCEAN RESEARCH COASTAL OCEAN PROGRAM		PASS-THROUGH	CALIFORNIA STATE COASTAL CONSERVANCY	17-022	3,242	
11.482	CORAL REEF CONSERVATION PROGRAM		PASS-THROUGH	NATIONAL FISH AND WILDLIFE FOUNDATION	0302.20.068675	15,375	
11.609	COVID-19 - MEASUREMENT AND ENGINEERING RESEARCH AND STANDARDS	COVID-19	PASS-THROUGH	IOWA STATE UNIVERSITY	022284F	472,192	
11.609	MEASUREMENT AND ENGINEERING RESEARCH AND STANDARDS		DIRECT	DEPARTMENT OF COMMERCE (DOC)		1,307,259	33,837
11.609	MEASUREMENT AND ENGINEERING RESEARCH AND STANDARDS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUB 3004650965 (70NANB17H291)	119,148	
11.609	MEASUREMENT AND ENGINEERING RESEARCH AND STANDARDS		PASS-THROUGH	UNIVERSITY SYSTEM OF MARYLAND	86307-27573201	59,379	
11.620	SCIENCE, TECHNOLOGY, BUSINESS AND/OR EDUCATION OUTREACH		DIRECT	DEPARTMENT OF COMMERCE (DOC)		74,455	
11.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF COMMERCE (DOC)	011023	102,816	27,011
11.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF COMMERCE (DOC)	A/EA-23B	(5,138)	
11.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF COMMERCE (DOC)	MOA-2020-130/12063	24,872	
11.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF COMMERCE (DOC)	R/AQ-156F	(6,233)	
11.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF COMMERCE (DOC)	S-001210	(11,178)	
11.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF COMMERCE (DOC)	R/SFA-13F 123	198	
11.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF COMMERCE (DOC)	R/HCE-15	(5,126)	107,915
11.RD	FEDERAL CONTRACTS		PASS-THROUGH	OREGON STATE UNIVERSITY	NA355A-B	36,727	
11.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS DARTMOUTH	36217	26,024	
12.002	PROCUREMENT TECHNICAL ASSISTANCE FOR BUSINESS FIRMS		PASS-THROUGH	SRI INTERNATIONAL	Sub PO37365(W81XWH19C0096)	179,570	
12.005	CONSERVATION AND REHABILITATION OF NATURAL RESOURCES ON MILITARY INSTALLATIONS		PASS-THROUGH	COLORADO STATE UNIVERSITY	G-16037-04	45,781	
12.005	CONSERVATION AND REHABILITATION OF NATURAL RESOURCES ON MILITARY INSTALLATIONS		PASS-THROUGH	COLORADO STATE UNIVERSITY	G1714302	3,077	
12.006	NATIONAL DEFENSE EDUCATION PROGRAM		DIRECT	DEPARTMENT OF DEFENSE		312,841	
12.008	DREDGED MATERIAL CONTAINMENT AREA		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	GWU 210-S10	115,013	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
12.107	NAVIGATION PROJECTS		PASS-THROUGH	KITWARE, INC.	K003623	108,335	
12.114	COLLABORATIVE RESEARCH AND DEVELOPMENT		DIRECT	DEPARTMENT OF DEFENSE		6,660,543	604,615
12.114	COVID-19 - COLLABORATIVE RESEARCH AND DEVELOPMENT	COVID-19	DIRECT	DEPARTMENT OF DEFENSE		148,719	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		DIRECT	DEPARTMENT OF DEFENSE		80,460,597	4,431,892
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		DIRECT	DEPARTMENT OF HOMELAND SECURITY (DHS)		(4,033)	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS THROUGH	NORTH CAROLINA STATE UNIVERSITY	SUB 2015-1959-03 (N00014-15-1-	4,687	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS THROUGH	STANFORD UNIVERSITY	62167799-140670	4,828	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	34553-AT-RB-111182	30,647	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS THROUGH	UNIVERSITY OF SOUTHERN MISSISSIPPI	SUB USM-8006352-01.01 UCSD(N00	487	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS THROUGH	UTA20-000913		5,438	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	APPLIED OCEAN SCIENCES, LLC	A220413	35,001	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S549278	212	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	CARNEGIE MELLON UNIVERSITY	1141311-425280	174,724	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	CHARLES RIVER ANALYTICS	A21-0469-001	208,595	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	COLORADO STATE UNIVERSITY	A20-0628-001	7,630	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	COLORADO STATE UNIVERSITY	A21-0383-001	75,781	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	SUB 1(GG013984)(N00014-18-1-2	42,617	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	SUB 3(GG014055) (N00014-19...	5,454	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG014055)	21,564	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	EOSPACE INC.	30124676	1,057	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	EOSPACE INC.	30124756	22,597	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	EOSPACE INC.	Sub 30044066 (N68335-20-C-0941	26,413	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	FLORIDA STATE UNIVERSITY	R02164	137,060	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	FOUNDATION FOR MARINE ECOLOGY AND TELEMETRY	028-020SI0001_002	2,193	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	19-S10	324,180	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	AWD-102036-G4:2	285,073	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	INTUITIVE SURGICAL OPERATIONS, INC	30028871	139,589	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	011445	39,161	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2004801912	57,953	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	KELP MARINE RESEARCH	20 2702 001	37,733	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	571004237-4	200	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	S4954 - PO	381,039	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	SUB 2015-1959-03 (N00014-15-1-	4,841	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	NORTHEASTERN UNIVERSITY	503405	100,036	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	011158	66,450	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	OHIO STATE UNIVERSITY	60063949	(3,485)	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	PURDUE UNIVERSITY	410478961	19,627	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	RICE UNIVERSITY	R1A843	186,782	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	A20-0174-001	71,044	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	SUB SA00007-019 (N00014-19-1-268	(3,906)	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	SMRU LIMITED	A20-0735-001	30,920	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	60744755-114407-UCB	283,924	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62167799-140670	34,326	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	SUB 62669594-189695 (N0001...	25,740	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	TRITON SYSTEMS, INC.	TSI-2736-21-20205663	44,639	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF ALASKA SYSTEM	UA 21-0112	340,780	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	206874	9,075	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	SUB 200257(N00014-16-1-2237)	(31,859)	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	217733-10	114,866	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1559358(N00014-20-1-2580)	21,032	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	SUB 1553360 (N0014-15-1-2809)	213,110	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	SUB 1558946(N00014-19-1-2522)	41,549	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF EDINBURGH	WT993903/R0860	45,520	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	34553-AT-RB-111182	87,135	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	SUB 17-009730 B 00 (N00014-1	21,061	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	010076	275,818	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	18-010467 C 00	209,635	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS DARTMOUTH	21122	18,617	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A006141804	74,473	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF NEBRASKA	25-0509-0202-002	167,838	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA SYSTEM	5118246 (N00014-20-1-2590)	161,170	(21,020)
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	203349UCSD	4,532	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	204133UCSD	60,331	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 84902573 (N00014-17-1-206	49,984	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	135239543	(5,147)	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN MISSISSIPPI	SUB USM-8006352-01.01 UCSD(N00	155,744	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF TENNESSEE	A19-0099-5004	376,171	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA20-000913	177,282	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA16-000560:3	82,619	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	00112211B:3	(3)	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GG12149.160225	27,125	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC9067	221,608	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY	UWSC9069	160,806	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	WASHINGTON STATE UNIVERSITY	UNIV61745	4,021	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	A19-0750-001	2,053	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH	COVID-19	DIRECT	DEPARTMENT OF DEFENSE	A21-0055-001	39,092	
12.300	COVID-19 - BASIC AND APPLIED SCIENTIFIC RESEARCH	COVID-19	PASS-THROUGH	HAL TECHNOLOGY, LLC	214780	3,323,338	69,091
12.300	COVID-19 - BASIC AND APPLIED SCIENTIFIC RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	115250657	33,668	
12.300	COVID-19 - BASIC AND APPLIED SCIENTIFIC RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	82976179	96,885	
12.300	COVID-19 - BASIC AND APPLIED SCIENTIFIC RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA		11,181	
12.301	BASIC AND APPLIED SCIENTIFIC RESEARCH, REINSTATED		DIRECT	DEPARTMENT OF DEFENSE		(18,794)	
12.330	SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS (STEM) EDUCATION, OUTREACH AND WORKFORCE PROGRAM		DIRECT	DEPARTMENT OF DEFENSE		257,904	
12.330	SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS (STEM) EDUCATION, OUTREACH AND WORKFORCE PROGRAM		PASS-THROUGH	NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY	A20-0564-001	107,516	

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12.330	SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS (STEM) EDUCATION, OUTREACH AND WORKFORCE PROGRAM		PASS-THROUGH	RTI HEALTH SOLUTIONS	SUB 10-312-0216908-65594L (W91	288,903	
12.335	NAVY COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE		DIRECT	DEPARTMENT OF DEFENSE		111,697	
12.335	NAVY COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2351825	32,437	
12.335	NAVY COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE		PASS-THROUGH	ORBITAL INSIGHT, INC.	052414	37,035	
12.340	NAVAL MEDICAL RESEARCH AND DEVELOPMENT		PASS THROUGH	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY	Subaward # 5638	4,671	
12.340	NAVAL MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY	Subaward # 5638	1,607,575	843,953
12.340	NAVAL MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1010447_UCSF	252,436	
12.351	COVID-19 - SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION	COVID-19	DIRECT	DEPARTMENT OF DEFENSE		727,420	
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		DIRECT	DEPARTMENT OF DEFENSE		6,466,245	727,982
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		PASS THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2004730758 (HDTRA12020001)	498	
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		PASS-THROUGH	HARVARD UNIVERSITY	124326	58,234	
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2004730758 (HDTRA12020001)	283,525	
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	011887	285,371	
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2004726069	114,718	
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2004726069	27,842	
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	SA21-04	214,637	
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	010862	35,474	
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	011047	155,846	
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		PASS-THROUGH	UNIVERSITY OF NEW MEXICO	HDTRA11810022	89,482	
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		PASS-THROUGH	UNIVERSITY OF TENNESSEE	A18-0780-5001-A01:01	476	
12.351	SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION		PASS-THROUGH	VANDERBILT UNIVERSITY	UNIV59843:1	74,235	
12.355	PEST MANAGEMENT AND VECTOR CONTROL RESEARCH		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	203396UCSF	21,196	
12.420	COVID-19 - MILITARY MEDICAL RESEARCH AND DEVELOPMENT	COVID-19	DIRECT	DEPARTMENT OF DEFENSE		1,782,913	
12.420	COVID-19 - MILITARY MEDICAL RESEARCH AND DEVELOPMENT	COVID-19	PASS-THROUGH	OLOGY BIOSERVICES, INC.	ASIMOV	(3,172)	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		DIRECT	DEPARTMENT OF DEFENSE		49,797,573	5,286,189
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	AMERICAN BURN ASSOCIATION	W81XWH-16-2-0048	162,456	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	AMERICAN BURN ASSOCIATION	A20-3319	320,567	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	AMERICAN BURN ASSOCIATION	A20-3320	230,967	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	AMERICAN BURN ASSOCIATION	W81XWH-19-2-0043	6,370	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	SUB M S456755 (W81XWH-17-0589)	112,008	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001660919	134,491	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	1620245:1	70,908	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	1789227	42,224	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	CENTER FOR VETERANS RESEARCH AND EDUCATION	CVRE-28	5,300	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	20185149:1	2,076	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	COALITION FOR NATIONAL TRAUMA RESEARCH	NTI-CLOTT17-12	23,992	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	COALITION FOR NATIONAL TRAUMA RESEARCH	NTRAP-18-09	3,689	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	COALITION FOR NATIONAL TRAUMA RESEARCH	SUB NTI-CLOTT17-11 (W81XWH-17-	17,149	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	COALITION FOR NATIONAL TRAUMA RESEARCH	SUB NTRAP-18-07(W81XWH18C0179	6,050	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS	W81XWH2010523	18,273	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS	W81XWH2110306	137,634	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS	W81XWH1910315	23,393	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS	W81XWH21	595,331	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS	WH2110644	178,019	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS	W81XWH2110684	118,281	

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12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	DUKE UNIVERSITY	SUB 3130729(W81XWH-17-1-0372)	781	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	DUKE UNIVERSITY	3131141	31,372	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	GENEVA FOUNDATION	S-11059-01	127,690	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	H. LEE MOFFITT CANCER CENTER & RESEARCH INSTITUTE, INC	12204519901G3	81,624	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	HENNEPIN HEALTHCARE RESEARCH INSTITUTE	SUB 15059-01 (W81XWH-17-2-0059	18,497	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY	4096	816,850	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY	823738/WX81XWH112017	30,521	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2004692651	31,403	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2003952086	25,493	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	METRC 2	(5,365)	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	JH-B3435	20,071	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	MASS GENERAL BRIGHAM INCORPORATED	20190730	70,041	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	MASSACHUSETTS EYE AND EAR INFIRMARY	Sub 38039 (W81XWH-15-2-0044)	3,191	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	MASSACHUSETTS EYE AND EAR INFIRMARY	38037	(36)	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	S4834 - PO 361087	69,575	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	A132730	(993)	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	W81XWH2110890	82,693	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	MEMORIAL SLOAN-KETTERING CANCER CENTER	BD523951A	34,493	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	NATIONAL JEWISH MEDICAL AND RESEARCH CENTER	20108701	53,758	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	NEW YORK UNIVERSITY	19-A0-00-1003679	52,345	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	WEI1872-02	65,559	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	WOO2191-01	24,827	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	WEI187205094728	2,080	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	202101	113,362	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60060216UCB	49,372	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60059317	83,878	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	OHIO STATE UNIVERSITY	SUB 60065095 (W81XWH1810059)	499,813	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	OLOGY BIOSERVICES, INC.	P103144	48,486	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1008335_UCSF	(8,531)	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	SAN JOSE STATE UNIVERSITY RESEARCH FOUNDATION	21-1301-6376	9,896	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	SANTA CLARA VALLEY MEDICAL CENTER	A135342	26,412	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	SPR THERAPEUTICS LLC	SUB 20161887 (W81XWH-12-2-013	99,051	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	STANFORD UNIVERSITY	62615165-160775	44,968	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	234910	799	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000507860-014	20,715	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000516840-021	16,507	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF CINCINNATI	UC-89807	3,440	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY18.576.005	(98)	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	SUB FY17.794.016 (W81XWH-15-1-	243	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	W81XWH-15-1-0584	11,016	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF FLORIDA	20204040	240	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF MARYLAND, BALTIMORE	SUB F302463-1 (W81XWH2020053)	56,592	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF MARYLAND, BALTIMORE	F302463-2	157,325	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	1802254	4,467	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	F211024-1	22,299	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS CHAN MEDICAL SCHOOL	W81XWH1810094	57,653	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF MINNESOTA	89000 (W81XWH2110674)	45,091	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	578105	46,827	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	578105 (W81XWH1910861)	19,885	

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12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	582686 (W81XWH2110590)	42,628	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	70043783	5	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	USC-78020	(20)	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	GMO: 200609	40,027	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GB12337	54,617	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000183	42,053	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000002117	4,626	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA NORMAN 315013 (W81XWH-15	76,923	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Afari (323660) 112579741 (31,343	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA ANDRE 325035 (W81XWH-20...	6,763	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA BROCK 321479 (W81XWH18104:	34,168	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA ETTENHOFER 324540 (W81X...	28,577	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GOLSHAN 315010 (W81XWH-15-	7,127	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA JAK 322924 (W81XWH1910656)	12,580	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA JAK 323015 (W81XWH-19-2006	25,533	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA JAK 324328 (W81XWH2010862)	5,798	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LESSIG 096640001 (W81XWH-18	9,259	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LEUNG 323195 (WH1910691)	109,988	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LEUNG W81XWH1910691	56	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MERRITT 324504 (W81XWH2...	17,985	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MORLAND 322923 (W81XWH191	11,549	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA NEWTON 324607 ((W81XWH-...	7,220	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA NORMAN 321505 (W81XWH-18:	6,842	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Onton 325242 (7002502)	69,079	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA RISBROUGH 321506 (W81XWH18	46,955	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Rutledge 326072 (W81XWH...	2,146	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Schiehser 321968 110788676	16,100	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA TWAMLEY 323042 (W81XWH191	82,156	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA YANG 326123 (W81XWH-20...	15,196	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	WAKE FOREST UNIVERSITY HEALTH SCIENCES	W81XWH2010864	7,526	
12.431	BASIC SCIENTIFIC RESEARCH	DIRECT		DEPARTMENT OF DEFENSE		25,161,984	6,814,785
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		BOSTON UNIVERSITY	45000003083	9,444	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		CALIFORNIA INSTITUTE OF TECHNOLOGY	SUB A3B-1097279 (W911NF-16-1-0	201,762	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		CALIFORNIA INSTITUTE OF TECHNOLOGY	43B-1097280	401,429	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		CALIFORNIA STATE UNIVERSITY, NORTHridge	A19-0006-5001:1	19,394	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		CORNELL UNIVERSITY	76091-10531	(4,981)	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		DCS CORPORATION	SUB NONE (W911NF-10-2-0022)	1,738	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		DREXEL UNIVERSITY	940002	2,047,578	409,594
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		DREXEL UNIVERSITY	940015	106,866	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		DUKE UNIVERSITY	3130838	176,311	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		GEORGIA INSTITUTE OF TECHNOLOGY	AWD-001219-G1	103,379	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		HARVARD UNIVERSITY	130423-5114248	55,223	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		HARVARD UNIVERSITY	134373-5114507	176,488	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		INTERNATIONAL BUSINESS MACHINES CORPORATION	W911NF-16-3-0001	259,077	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		JAZZ SEMICONDUCTOR	SUB 20174867(HR0011-17-9-22)	124	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		JOHNS HOPKINS UNIVERSITY	2003506204	81,250	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		JOHNS HOPKINS UNIVERSITY	2003550747	211,510	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		JOHNS HOPKINS UNIVERSITY	2004718190	225,081	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		JOHNS HOPKINS UNIVERSITY	2004718191	152,220	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		MASSACHUSETTS INSTITUTE OF TECHNOLOGY	S4660 - PO 217710:1	653	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		MASSACHUSETTS INSTITUTE OF TECHNOLOGY	S5040 - PO	573,655	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		MAXENTRIC TECHNOLOGIES LLC	SUB UCSD-4330-1(W81XWH20C0001	239,234	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		MEDICAL TECHNOLOGY ENTERPRISE CONSORTIUM	2018-674	2,801,936	1,117,268
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		NORTHERN ARIZONA UNIVERSITY	W911NF1910040	11,103	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		PRINCETON UNIVERSITY	SUB00000404	142,545	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		SEMI	20194311	105,081	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		STANFORD UNIVERSITY	62455475-163612	342,474	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		STANFORD UNIVERSITY	62455187-163612	168,295	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		TOWERJAZZ	20193651	76,960	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	SUB 2015-05174-03 (W911NF-15-1	(2,387)	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		UNIVERSITY OF MARYLAND, COLLEGE PARK	37919-28424101	77,571	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		UNIVERSITY OF MICHIGAN	3004628715	107,844	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		UNIVERSITY OF MICHIGAN	SUBK000008376	138,362	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		UNIVERSITY OF MICHIGAN	SUBK00013910	117,270	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		UNIVERSITY OF PENNSYLVANIA	574723	400,364	27,493
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		UNIVERSITY OF SOUTHERN CALIFORNIA	110247221	178	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		UNIVERSITY OF SOUTHERN CALIFORNIA	80483423	122,612	
12.431	BASIC SCIENTIFIC RESEARCH	PASS-THROUGH		UNIVERSITY OF SOUTHERN CALIFORNIA	133572263	116,504	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
12.431	BASIC SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	140992089	53,506	
12.431	BASIC SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	006950	378,989	
12.431	BASIC SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	SUB UWSC10378(W911NF-17-1-0595	64,680	
12.431	BASIC SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	Sub 0000001470 (W911NF2110317)	185,980	
12.431	BASIC SCIENTIFIC RESEARCH		PASS-THROUGH	US IGNITE, INC.	61516.2	75,007	
12.431	BASIC SCIENTIFIC RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU220250	75,989	
12.431	COVID-19 - BASIC SCIENTIFIC RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	3130590	1	
12.431	COVID-19 - BASIC SCIENTIFIC RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2004648856	55,004	
12.431	COVID-19 - BASIC SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	576798	277,896	
12.431	COVID-19 - BASIC SCIENTIFIC RESEARCH		PASS-THROUGH	UNIVERSITY OF TENNESSEE	A21-0113-5001	26,667	
12.431	COVID-19 - BASIC SCIENTIFIC RESEARCH		PASS-THROUGH	WORCESTER POLYTECHNIC INSTITUTE	10520-GR	481,038	
12.450	FORT HUACHUA ENVIRONMENTAL TRAINING		PASS-THROUGH	QUESTEK INNOVATIONS LLC	18040529	8,418	
12.560	DOD, NDEP, DOTC-STEM EDUCATION OUTREACH IMPLEMENTATION		PASS-THROUGH	AOSENSE, INC.	AOS-21-001	276,170	
12.598	CENTERS FOR ACADEMIC EXCELLENCE		PASS-THROUGH	JASR SYSTEMS, LLC	Sub 30113186 (2021-21062400...	397,619	
12.598	CENTERS FOR ACADEMIC EXCELLENCE		PASS-THROUGH	SAFT AMERICA INC.	2021_Saft_0064	536,270	
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		DIRECT	DEPARTMENT OF DEFENSE		12,532,152	578,394
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	112327	146,033	
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		PASS-THROUGH	LEIDOS, INC.	Sub P010250777 (N6600121C4010	439,714	
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		PASS-THROUGH	NEYROBLASTGX LLC	Sub none (HR001121C0092)	8,096	
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		PASS-THROUGH	NORTHROP GRUMMAN CORPORATION	SUB 5300028373 (101,281	
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	006576	905,797	
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	4957UCDARMY0045	443,573	
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		PASS-THROUGH	TOURNITEK INC.	A139423	13,215	
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1560365	57,002	
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	088831-16649-02	1,284,008	
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	572622	165,075	
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	Sub 572622(W911NF-17-2-0181)	585,362	
12.630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	SUB 578424(W911NF-17-2-0181)	(474)	
12.631	SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) EDUCATIONAL PROGRAM: SCIENCE, MATHEMATICS AND RESEARCH FOR TRANSFORMATION (SMART)		PASS-THROUGH	RTI HEALTH SOLUTIONS	SUB 18-312-0216908-65879L (888	(14,708)	
12.700	DONATIONS/LOANS OF OBSOLETE DOD PROPERTY		PASS-THROUGH	KIADIS PHARMA N.V.	KIADIS - 77968	28,728	
12.750	UNIFORMED SERVICES UNIVERSITY MEDICAL RESEARCH PROJECTS		DIRECT	DEPARTMENT OF DEFENSE		1,478,508	
12.750	UNIFORMED SERVICES UNIVERSITY MEDICAL RESEARCH PROJECTS		PASS-THROUGH	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY	5455-PRU	8,575,686	
12.750	UNIFORMED SERVICES UNIVERSITY MEDICAL RESEARCH PROJECTS		PASS-THROUGH	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY	Sub 5359 (HU00012020031)	483,157	
12.750	UNIFORMED SERVICES UNIVERSITY MEDICAL RESEARCH PROJECTS		PASS-THROUGH	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY	Sub 5731 (HU00012120033)	26,082	
12.750	UNIFORMED SERVICES UNIVERSITY MEDICAL RESEARCH PROJECTS		PASS-THROUGH	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY	5802-PRU	13,261,580	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		DIRECT	DEPARTMENT OF DEFENSE		29,496,767	6,967,739
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS THROUGH	MAXENTRIC TECHNOLOGIES LLC	UCSD-4327-1 (sub FA8650-19-C-1	5,833	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS THROUGH	UNIVERSITY OF CONNECTICUT	SUB 141414 (FA9550-14-1-0351)	10,391	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	AECOM TECHNICAL SERVICES	A20-0825-001	67,356	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	ARCTOS TECHNOLOGY SOLUTIONS, LLC	A20-0714-005	72,175	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	BAYLOR UNIVERSITY	1000216-01	57,448	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	BIOINDUSTRIAL MANUFACTURING AND DESIGN ECOSYSTEM	75D03-016	117,544	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	BIOINDUSTRIAL MANUFACTURING AND DESIGN ECOSYSTEM	T-PC01-A-03	386	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S394857	229,732	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S415023	390,884	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S414979	153,227	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG016303)	141,795	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	CORNELL UNIVERSITY	84713-11113	544,171	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	DUKE UNIVERSITY	3130918	62,058	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	ELECTRA.AERO, INC.	ELECTRA-77985	20,000	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	ELEVATION HEALTH PARTNERS FOUNDATION	Subaward None (FA8649-21-P-...	14,999	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	ENGINEERING BIOLOGY RESEARCH CONSORTIUM	D01-21-0001	204,668	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	FLORIDA TURBINE TECHNOLOGIES, INC.	FTT19-1191	22,840	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	SUB 18-512 (FA9550-18-1-0288)	69,977	

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12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	HARVARD UNIVERSITY	130427-5114546	231,665	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	HARVARD UNIVERSITY	130427-5114550	204,546	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY	FA8650-18-26837	2,237	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	INFOSCITEK CORPORATION	FPH215006	1,348	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	LINCOLN LABORATORY	SUB 7000499402 (FA8702-15-D...)	149,395	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	MAXENTRIC TECHNOLOGIES LLC	UCSD-4346-FPN	45,795	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	MAXENTRIC TECHNOLOGIES LLC	UCSD-4327-1 (sub FA8650-19-C-1	(33,070)	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	MITRE CORPORATION, THE	Sub TO 138331 (FA8702-21-C...)	64,272	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	S001882K	219,076	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	PURDUE UNIVERSITY	010490	111,609	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	RENNSELAER POLYTECHNIC INSTITUTE	A12897-S003	3,106	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	RENNSELAER POLYTECHNIC INSTITUTE	A21-0129-S001	44,691	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	SRI INTERNATIONAL	SUB PO15349 (FA8750-17-C-011	62,439	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	SRI INTERNATIONAL	37644	231,089	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	STANDFORD UNIVERSITY	61964931-136167	2,372	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	STANFORD UNIVERSITY	62658434-184333	163,515	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	STANFORD UNIVERSITY	6274161	30,762	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	STATE UNIVERSITY OF NEW YORK	SB160126-ADMIN 04	15,805	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	STATE UNIVERSITY OF NEW YORK	SB160126GDP03	235,016	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	STATE UNIVERSITY OF NEW YORK	SB220198-GDP1	450,812	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	87240/2/1159338	143,587	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	TRISTAN TECHNOLOGIES	UCR-18070976	15,697	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF CENTRAL FLORIDA	011223	233,206	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF CENTRAL FLORIDA	A19-0646-001	228,469	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF DAYTON	SUB RSC19045	7,949	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF FLORIDA	A19-0638-001	169,400	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00001676	(5,132)	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	36954Z8165003	297,312	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A007638501	95,392	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF NEW MEXICO	271704- 870D	163,421	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF TEXAS AT ARLINGTON	12602015163:006	193,071	29,360
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	SUB UTA19-000774 (FA9550- 19-1	167,310	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF TEXAS AT DALLAS	A19-0807-001	107,173	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF UTAH	10052440-S2	94,872	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	UNIVERSITY OF UTAH	1005905904	73,735	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		PASS-THROUGH	VANDERBILT UNIVERSITY	OSA00000043	81,397	
12.810	AIR FORCE MEDICAL RESEARCH AND DEVELOPMENT		PASS-THROUGH	QUANTUM DESIGN INTERNATIONAL, INC.	010873	27,067	
12.901	MATHEMATICAL SCIENCES GRANTS	DIRECT		DEPARTMENT OF DEFENSE		118,551	
12.905	CYBERSECURITY CORE CURRICULUM	DIRECT		DEPARTMENT OF DEFENSE		191,711	
12.910	COVID-19 - RESEARCH AND TECHNOLOGY DEVELOPMENT	COVID-19	DIRECT	DEPARTMENT OF DEFENSE		1,877,877	915,880
12.910	COVID-19 - RESEARCH AND TECHNOLOGY DEVELOPMENT	COVID-19	PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2004744493 (W911QY-20-9...)	54,434	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	DIRECT		DEPARTMENT OF DEFENSE		55,379,231	25,020,633
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	DIRECT		DEPARTMENT OF HOMELAND SECURITY (DHS)		41,108	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS THROUGH		GALOIS INC	SUB 2019-030 (HR00111850052)	4,235	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS THROUGH		LEIDOS, INC.	30074545/P010250769	44,011	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS THROUGH		STANFORD UNIVERSITY	SUB 62459357-155611(HR00112...	67,674	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS THROUGH		STANFORD UNIVERSITY	SUB 62459362-155611(HR00112...	67,674	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH		APPLIED RESEARCH ASSOCIATES, INC.	S-000243-08	3,938	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH		ARIZONA STATE UNIVERSITY	SUB ASUB000000292 (HR0011199003	(112,620)	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH		ARM LIMITED	20200730	450,509	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH		AUTONOMOUS THERAPEUTICS INC.	D19AC0004	(2,698)	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH		BATTELLE MEMORIAL INSTITUTE	SUB US001-00000789419	874,568	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH		BIOPRODEX, INC.	SUB 20191412 (2019-33610-29873	21,292	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH		BOSTON UNIVERSITY	4500003487	257,815	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH		BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH, INC.	17-05	95,976	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH		CALIFORNIA INSTITUTE OF TECHNOLOGY	S489438	379,879	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH		CALIFORNIA INSTITUTE OF TECHNOLOGY	S545106	232,726	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH		CARI HEALTH, INC.	SUB 20183028 (1831257)	(30,550)	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	CELSENSE, INC.	R41EB029905	51,092		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	CENTER FOR OPEN SCIENCE	SUB 7976 (N600011924015)	3,869		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	CENTER FOR OPEN SCIENCE	A20-0867-001	1,407		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	CERI, LLC	SUB 20201441(NIH)	1,665		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	COLLINS AEROSPACE	SUB 20200403 (FA8650-20-C-7004	62,217		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	COLUMBIA UNIVERSITY	4(GG017183-01)	24,020		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	CORNELL UNIVERSITY	SUB 92770-20649 (2021-67017...)	35,490		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	CYTONUS THERAPEUTICS, INC.	SUB 20200804 (CA250887)	62,385		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	DONALD DANFORTH PLANT SCIENCE CENTER	010121	603,780		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	DUKE UNIVERSITY	SUB A034445 (3U2C-C4233254...	153,701		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	DUKE UNIVERSITY	313092	109,192		36,614
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	EMORY UNIVERSITY	SUB A178420 (HHS0100201900015C	(85,790)		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	GALOIS INC	SUB 2019-030 (HR00111850052)	78,993		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	GENERAL ATOMICS	DE-FG02-95ER54309	42,018		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	AWD-102938-G5:1	60,901		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	GLOBAL ALGAE INNOVATIONS	171038	71,164		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	HP INC.	HPL-MM-UCSB-0007-1	56		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	HRL LABORATORIES, LLC	SUB 17090-181686-US (FA8750-18	64,327		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	HRL LABORATORIES, LLC	17038-18202-QS	113,537		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	INTERNATIONAL BUSINESS MACHINES CORPORATION	A18-0764-001	(83)		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	JAMES MADISON UNIVERSITY	SUB 518-099-01 (EY028725)	(11,097)		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	JASR SYSTEMS, LLC	SUB 30081667 (W31P4Q21-C-0...	17,600		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2003851732 (OK061730)	4,350		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B642078	24,452		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B645185	101,462		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SUB 8640364 (DE-AC52-07NA27344	217,976		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SUB 8643113 (B623353)	3,757		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	LEIDOS, INC.	S0074545/P012050769	496,326		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	LOS ALAMOS NATIONAL SECURITY, LLC	SUB 315123 (DEAC52-06NA25396)	760,678		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	LOS ALAMOS NATIONAL SECURITY, LLC	SUB 530681 (351438)	13,724		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5710004260	16,948		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SUB 54940, P0R 447984	25,538		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	MAXENTRIC TECHNOLOGIES LLC	UCSD-3959	20,818		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	MONTANA STATE UNIVERSITY	G173-19-W7329	155,050		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	MSB ASSOCIATES	W912CG21P0012	84,968		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	MSB ASSOCIATES	A220570001	41,622		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	NANO-BIO MANUFACTURING CONSORTIUM	SUB NB18-20-22	70,646		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	SUB 1646732 (DE-AC04-94AL85000	85,844		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	SUB 2004104	13,838		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	SUB 2082375	61,526		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	SUB 2153652 (1655264)	(576)		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	SUB 2155356 (1655264)	15,739		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	SUB 2184585 (1655264)	107,062		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	SUB 2213935 (1655264)	51,892		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	NEURANO BIOSCIENCE LLC	SUB 30064655 (DA050393)	2,656		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	NEVADA SYSTEM OF HIGHER EDUCATION	UNR-19-23	838		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	NORTHEASTERN UNIVERSITY	505232-78050	86,950		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	NOVATEUR RESEARCH SOLUTIONS LLC	HR0011150926 UCSD-SUBK (DAR...	24,999		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	M49145	124,240		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	PERATON LABS INC.	PO-0022040	148,986		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	PLANCK AEROSYSTEMS INC.	SUB 30084644 (FA864921P0041)	(2,831)		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	PRINCETON PLASMA PHYSICS LABORATORY	SUB S015887-C (DE-AC02-09CH114	35,824		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	PRINCETON PLASMA PHYSICS LABORATORY	SUB S018215 (DE-AC02-09CH1...	51,841		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	PRINCETON UNIVERSITY	SUB S0000493	54,475		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	PRINCIPLE POWER INC.	050021	267,624		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	PUBLIC HEALTH INSTITUTE	SUB 01486 (18-95423)	88		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	PURDUE UNIVERSITY	13000993-008	124,551		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	QUINIC.TECH LLC	QUINIC.TECH 19109-2019-3183	45,739		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	RAM LABORATORIES, INC.	SUB 2021-RAM-UCSD-001 (HR00...	168,765		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	RAYTHEON BBN TECHNOLOGIES CORP.	90056	160,341		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	SOLID POWER, INC.	SUB SC-SP01-718 (DE-EE0008861)	22,777		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	SOUTH 8 TECHNOLOGIES, INC.	SUB 20192889	(406)		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	SPR THERAPEUTICS, INC	SUB 20202244 (W81XWH-18-1-0...	3,887		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	SRI INTERNATIONAL	PO 44993	472,018		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	STANFORD UNIVERSITY	SUB D2459351-155611(HR00112...	271,863		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	STANFORD UNIVERSITY	SUB D2459361-155611(HR0011...	8,359		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	STANFORD UNIVERSITY	SUB D2459362-155611(HR00112...	166,673		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	STANFORD UNIVERSITY	SUB D2780870-155611 (HR00...	251,084		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	STATE UNIVERSITY OF NEW YORK	2020-916	943,749		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK	87770/2/116045	140,224		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	CAMPUS				
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	SYNOPSYS INC.	SUB 20200286 (HR001120-9-0043	364,497		160,588
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	SYSTEMS & TECHNOLOGY RESEARCH LLC	2020-0005	269,773		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	THE BROAD INSTITUTE, INC.	SUB 5000361-5500001046 (N6001	(6,954)		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB S-53974 (EY028983)	(36,907)		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	THE TEXAS A&M UNIVERSITY SYSTEM	M1901610	163,724		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	TRITON SYSTEMS, INC.	SUB TS-2622-19-2020228	11,503		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UCHICAGO ARGONNE, LLC	SUB 9F-60081	92,231		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF ARIZONA	SUB 20152604 (HHSN26120120003	6,226		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF CHICAGO	SUB AWD043400-03-PR (SUB000001	1,041		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1560518	120,051		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	SUB 095421-17431 (CA226528)	81,887		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF MARYLAND, BALTIMORE	D18AP00060	90,947		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF MINNESOTA	SUB A008043201 (FA8650-20-2-70	308,675		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	SUB 203278UCSD (2018-JU-2776)	454,336		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	SUBAWARD 203278UCSD-KUMMEL ..	98,743		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	204368UCB	146,728		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	129407135	41,100		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	123878062	212,426		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	125049675	292,009		
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	134700428	166,076		

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	140937689	115,615	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	SUB UTA19-001174(170230239)	(1,619)	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF TEXAS AT DALLAS	1705120-2	7,074	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF TEXAS AT DALLAS	2109526	96,400	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF TEXAS AT DALLAS	UTD-77002	24,093	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11927	46,816	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT		PASS-THROUGH	US IGNITE, INC.	30051494	213,188	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT		PASS-THROUGH	WESTAT	SUB 6579-560 (HHSN275201800001	19,749	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT		PASS-THROUGH	WINSANTOR INC	SUB 20190788	640,903	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT		PASS-THROUGH	YALE UNIVERSITY	GR110714 CON80002532	165,706	
12.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	ADVANCED TECHNOLOGY INTERNATIONAL	2021-402	97,205	
12.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	DUKE UNIVERSITY	3130986	47,306	
12.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	DUKE UNIVERSITY	3131035	75,585	
12.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	GALOIS INC	2020-016	204,436	
12.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	134920	172,341	
12.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	7000496256	120,082	
12.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	7000499840	117,396	
12.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	MEDPACE, INC.	MTEC-20-12-COVID19-D-.023	1,012,997	211,160
12.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	SIEMENS CORPORATION	AKB-9778-CI-6001	(4,837)	
12.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	207-01	216,022	
12.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	UNIVERSITY OF OREGON	208126UCI	5,977	
12.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	UNIVERSITY OF OREGON	251820A	211,765	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N62473-21-2-0012	599,539	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	00010515	(628)	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	009922	41,806	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	010122	68,503	53,709
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	011750	167,232	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	F1SRQ21019M001	56,396	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	FA8620-19-C-3028	2,899,215	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	FA8750-18-C-0101	849,555	358,198
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	FA8750-20-C-0156	1,820,964	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	H92450-20-F-0120 (IDIQ TO O...	24,846	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	H98230-14-C-0145	16,359	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	H98230-19-C-0461	119,427	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	HR0011-16-C-0052	(1,058)	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	HR0011-17-C-0023:P00005	1,882	1,985
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	HR00111990050	168,300	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	HR0011-19-C-0043:P00003	210,860	65,229
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	HR0011-19-C-0083	1,066,401	398,619
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	HR00112090027	224,653	98,820
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	HR00112090038	439,139	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N00014-20-C-2039	4,886,216	377,296
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N00173-20-P-0059	(11,623)	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N00174-16-C-0013	9,006	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N39430-15-C-1692	3,826	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N3943019C2149	119,694	53,889
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N62473-20-2-0013	10,655	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N66001-15-C-4066	4,751	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N6600120C4001:P00001	280,484	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W56HZV-16-C-0117:P00001	68,869	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W81XWH-20-1-0158	65,831	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W81XWH2010391	21,938	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W81XWH2010510	868,562	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W81XWH2010693	219,161	67,986
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W81XWH2110417	576,401	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W911NF-09-D-0001-0044	134,008	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W911NF-14-1-0507	146,615	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W911NF-19-0-0001	5,673,243	732,203
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W911QY-15-C-0044	13	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912HQ-15-C-0058	61,817	(2,719)
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912HQ-16-C-0047	137,563	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912HQ-17-C-0009	(844)	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912HQ-17-C-0040	218,472	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912HQ18C0068	162,506	95,550
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912HQ20C0044	229,629	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912P7-21-C-0002	671,223	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W913E520C0001	(136)	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W913E521C001	129,014	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N00024-17-C-6269	28	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	HDTRA121C0019	818,560	72,700
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N00173-21-P-0751	250,000	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N6264521C0007	297,654	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	H92450-20-D-0010, Task Orde...	83,038	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	M0068121P0104	31,441	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	FA8650-21-2-7126	87,465	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	FA8730-21-9-0007	240,189	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	FA8730-21-9-0009	206,032	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	HR001121C0192	383,541	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N6600121D0042	39,889	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N66001-21-D-0042, N66001-21...	29,384	12,720
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N66001-21-D-0042, N66001-22...	195,318	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N00014-22-C-2-0006	201,953	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N00014-22-1-2243	84,737	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W81XWH-22-1-0154	88,966	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912HQ18C0102	143,716	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N44852-16-P	39,273	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	HR00112190008	629,915	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	H98230-19-C-0209	503,942	33,247
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	22-C-0064	150,819	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	SUB 11239SC (2018-674)	629,140	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912HQ2NEIL	287,697	136,425
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	DOD-28397	256,223	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912HQ2LISA	138,806	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912HQ2GEGORGE	189,026	19,480
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W81XWH-21-1-0094	273,476	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W81XWH2110457	239,399	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W81XWH2110979	92,782	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	IPA for Jason Sello	139,971	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W81EWF421	37,210	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N66001-21-P	30,278	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	2021-210902	401,571	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W9126G-22-2	281,457	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	A583	191,244	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	22040419	2,391	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912H021P0083	58,548	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	20211263-01	6,978	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912H021C0011	120,325	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	W912H022C0052	27,394	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	SB220077	5,001	
12.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	2021 DOD Bhargava	9,354	
12.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7593724	101,692	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	ACCENTURE SAS	BRIAR-UCR	25,444	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	ACCENTURE SAS	S000636 KEOGH	102,307	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	AGNITRON TECHNOLOGY, INC.	SB210145	157,745	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	AGNITRON TECHNOLOGY, INC.	SB220074	42,149	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	AMETHYST RESEARCH, INC.	SB220208	11,123	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	APPLIED RESEARCH SOLUTIONS, INC.	S00017	39,691	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	APTIMA, INC.	SUB 1337-2094 (W81XWH-19-C-002	132,193	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	ARIZONA STATE UNIVERSITY	ASU8000000021	1,185,273	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	ARIZONA STATE UNIVERSITY	ASU8000000244	370,817	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	BAE SYSTEMS (GREAT BRITAIN)	1017370	(17,052)	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	BAE SYSTEMS (GREAT BRITAIN)	1087044	44,778	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	CARNEGIE MELLON UNIVERSITY	011057	81,606	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	CHARLES RIVER ANALYTICS	N6600121C4013	202,115	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	CLARKSON AEROSPACE CORP.	1RAMAMOOR923	19,469	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	COALITION FOR NATIONAL TRAUMA RESEARCH	CNTR20-HUMA-07	12,976	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	CODAGENIX INC.	A21-4194	319,026	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	COGNIONICS, INC.	Sub 30097844 (W81XWH-18-C-0...	185,037	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	COLORADO STATE UNIVERSITY	G-01688-01:2	174	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	COLORADO STATE UNIVERSITY	G17143	21,267	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS	W81XWH2110955	145,540	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	EPISYS SCIENCE, INC.	Sub NAVY-AlphaUVV-S001 (N68...	22,897	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	FREEDOM PHOTONICS LLC	S7144-02	930	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	GE GLOBAL RESEARCH	401152372	1,013,648	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	AWD002638-S2	125,402	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	HALEY & ALDRICH, INC.	0200876-000	55,540	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	HAMILTON SUNDSTRAND CORPORATION	201454124	199,983	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	HENNINGSON, DURHAM & RICHARDSON, INC.	HDR MSA 1000300000780, TO 6 -	9,712	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF	5851	182,997	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MILITARY			
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	HONEYWELL INTERNATIONAL INC.	3503622896E	3,233	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	HOTTINGER BRUEL & KJAER SOLUTIONS LLC	30147724 (W912HZ21C0042)	28,677	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	HRL LABORATORIES, LLC	19006-2X0805-QS	82,416	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	HRL LABORATORIES, LLC	A22-2485	41,572	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	HRL LABORATORIES, LLC	21004-213644-QS	138,698	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	INFOSCITEK CORPORATION	FPH14-5007	178,974	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1671641	113,603	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	134841	25,701	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	W81XWH-17-1-0664	3,903	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	KIMETRICA LLC	SB200070	224,237	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	KITWARE, INC.	K003421	99,853	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B645188	118,874	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	LEIDOS, INC.	P01265705	18,271	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	LINCOLN LABORATORY	012210	35,071	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	7000495127	57,491	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	S5013	85,160	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MAXENTRIC TECHNOLOGIES LLC	SUB UCSD-3948-1 (FA8750-20-C-1	3,356	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MAYBELL QUANTUM INDUSTRIES	22-001	16,486	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MID-ATLANTIC EPILEPSY & SLEEP CENTER, LLC	A20-4167	13,358	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MILITARY HEALTH RESEARCH FOUNDATION	0050	67,188	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MILITARY HEALTH RESEARCH FOUNDATION	FA8650-20-2-6104	14,019	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MILITARY HEALTH RESEARCH FOUNDATION	W81XWH-20-1	16,507	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MONDE WIRELESS INC.	MW202201	5,503	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MONDE WIRELESS INC.	MW202103	20,245	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MORTON PHOTONICS	MP-UCS8-08	7,555	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MORTON PHOTONICS	MP-UCS8-09	1,673	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	MRIGLOBAL - DO NOT USE: USE CODE 9137	812-111161-3	49,209	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NEXUS PHOTONICS, LLC	FA8649-21-P-0958	337,814	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NEXUS PHOTONICS, LLC	HR001120C0135_SUB	366,855	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NEXUS PHOTONICS, LLC	N6833521C078	27,445	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NIMBIS SERVICES	21F1152UCSB	21,578	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND	84009 - 02 - 444988	443,454	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	EDUCATION, IN			
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND	84014 - 02 - 444988	12,969	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	EDUCATION, IN			
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND	84041 - 02 - 444988	110,736	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	EDUCATION, IN			
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND	84053 - 02 - 444951	71,292	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	EDUCATION, IN			
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND	84057 - 02 - 444951	67,052	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	EDUCATION, IN			
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND	84076 - 02 - 444988	(25,738)	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	EDUCATION, IN			
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND	84082 - 02 - 444988	144,571	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	EDUCATION, IN			
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND	84097 - 02 - 444653	95,989	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	EDUCATION, IN			
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND	84098 - 02 - 444988	60,770	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	EDUCATION, IN			
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND	84126 - 02 - 444653	132,968	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	EDUCATION, IN			
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND	84127 - 02 - 444988	163,826	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	EDUCATION, IN			

**University of California
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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84132 - 02 - 444988	111,905	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84153 - 02 - 444988	74,913	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84162 - 02 - 444988	77,155	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84166 - 02 - 444988	30,256	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84184 - 02 - 444951	174,220	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84188 - 02 - 444949	75,693	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84193 - 02 - 444927	67,729	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84201 - 01 - 557755	10,447	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84204 - 01 - 444988	108,094	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84211 - 01 - 444653	45,609	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84215 - 01 - 444988	50,315	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84219 - 01 - 444908	45,546	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84220 - 01 - 444951	8,680	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84224 - 01 - 444988	177,833	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84227 - 01 - 444653	89,151	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84246 - 01 - 444988	129,308	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A127370	103,126	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A128267	77,124	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A128599	126,211	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A128690	107,512	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A128696	78,589	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A128700	121,486	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A128711	25,099	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A128785	92,487	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A129048	19,912	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A129093	96,220	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A129240	18,370	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A129436	122,997	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A130273	5,767	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A130434	15,679	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A130536	737	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A130981	135,468	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A131114	10,261	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A131340	12,844	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A131350	47,056	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A131492	38,776	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A131631	2,233	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A131845	118,252	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A132232	24,116	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A132282	105,258	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A132360	16,811	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A132520	11,396	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A132721	173,272	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A133123	97,486	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A133311	71,755	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A133635	25,714	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A133813	(183)	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A133865	(843)	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A133873	185,013	

**University of California
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**For the Fiscal Year Ended June 30, 2022
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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A133981	(205)	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A134049	9,366	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A134156	15,000	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A134216	100,644	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A134218	65,875	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A134288	29,721	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A134950	17,000	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A135403	5,200	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A135489	33,022	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A135491	129,781	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A135496	31,929	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A135593	2,209	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A135625	68,044	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A135659	30,842	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A135683	20,236	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A135832	56,375	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A135833	11,223	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A135967	68,395	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A135969	64,759	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A136139	12,002	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A136144	11,466	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A136307	25,075	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A136314	27,514	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A136385	7,261	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A136535	31,598	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A136660	8,413	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A136661	53,599	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A136663	46,561	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A136750	16,195	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - COHEN, BETH	34,358	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - D8409	(33)	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - D8436	22,278	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - D8604	11,098	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - D8734	25,482	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - LEE, SEI	91,782	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - MACKIN, ROBERT	25,590	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - MAGUEN	41,541	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - MAKLASHINA	171,437	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - MUKHERJEE	12,505	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - SMITH A.	98,293	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - SUDORE,REBECCA	51,129	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	A139285	2,774	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - HE	(78)	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - WILL D8606	4,515	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA-CHI D8798	28,103	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - BRI D9124	1,586	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - DAVI D9230	25,691	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - JULI D9377	29,731	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - SCOTT BAUER	12,300	

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12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - SKY	169,306	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - ANN SCHWARTZ	20,370	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - CARA D9764	5,646	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPBA - YUKO ODA	16,685	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - LI WEN HUANG	100,964	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - NATALIE PURCELL	27,492	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - SUSA EO481	66,251	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - MARGARET E0509	16,719	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - WOLF MEHLING	17,315	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - YING SHI	18,919	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	JPA - LAUREN HUNT	2,909	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHROP GRUMMAN CORPORATION	PO# 5300012899	470,566	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	NVIDIA CORPORATION	A18-1587	300,916	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	OCEANIT LABORATORIES, INC.	OCEANIT-59553	48,269	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	OPTO-KNOWLEDGE SYSTEMS, INC.	19032901	21,403	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	OPTO-KNOWLEDGE SYSTEMS, INC.	289-UCLA	172,104	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	PALO ALTO RESEARCH CENTER	P316754	37,180	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	S00259	25,949	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	PERATON LABS INC.	PO-0023033	233,175	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	PERATON LABS INC.	PO-0024959	226,721	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	PPG INDUSTRIES	052207	17,080	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	RADIABEAM TECHNOLOGIES, LLC	20150687	342,931	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	RAYTHEON BBN TECHNOLOGIES CORP.	90013	19,481	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	RAYTHEON BBN TECHNOLOGIES CORP.	4202036073	693	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	REZ INC.	19-400-0001-2008-STAR-UCLA	76,218	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	RICE UNIVERSITY	R18719	115,842	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	SECONDWAVE SYSTEMS, INC.	30139860	6,372	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	SELECTTECH SERVICES CORPORATION	6501-505-2957	29,764	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	SEMI	20212868	161,879	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	SEMICONDUCTOR RESEARCH CORPORATION	2018-JU-2778	6,477,577	2,216,872
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	SILATRONIX, INC.	N00014-19-C-1009	29,541	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	SILATRONIX, INC.	N00014-63376	26,230	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	SMITHSONIAN/WOODROW WILSON INTERNATIONAL CENTER	052554	1,562	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	FOR SCHOLARS	SC-18-028	119,417	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	SOAR TECHNOLOGY, INC.	20192736	1,540	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	SRI INTERNATIONAL	P037364	311,666	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	SRI INTERNATIONAL	SUBK00004114-ESETT:38	181,948	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	STANFORD UNIVERSITY	STANFORD-D9869	125,645	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	STATE UNIVERSITY OF NEW YORK	SB2101510011A	46,495	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	SYNOPTIC ENGINEERING, LLC	0002-S-002	52,417	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	TELEDYNE SCIENTIFIC & IMAGING LLC	P000166990	41,236	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	TOYON RESEARCH CORPORATION	SC212C2421-P1756	138,675	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRANSPHORM, INC.	W31P4Q21C0001	131,523	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRISTAN TECHNOLOGIES	18070976	100,856	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UES, INC.	S-111-034-001	49,331	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	ULTRA-LOW LOSS TECHNOLOGIES, INC.	SB210043	339,083	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF ALASKA SYSTEM	UAF 17-0094	(2,948)	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF ALASKA SYSTEM	P055151	55,920	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF ARIZONA	543942	12,926	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1557976	11,450	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1560821	128,044	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF ILLINOIS CHICAGO	011316	52,875	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE	NDCB-D8852	25,631	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK000	79,907	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00015414	350,348	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE	UNC 20190588-01	23,551	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	203278UCB	935,263	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	203278UCB-MISHRA	174,500	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF OXFORD	HR0011-20-2-028	137,007	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	0051433-5	27,439	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	0051433-1	137,289	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	95994470	(101)	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SCON-00002885	54,836	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GI18518.156870	253,609	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GG12438169157	70,545	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	VA CONNECTICUT RESEARCH AND EDUCATION FOUNDATION, INC.	Sub UCSD2201EAS (W81XWH2110...)	35,723	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	VANDERBILT UNIVERSITY	UNIV60701	79,419	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	VANDERBILT UNIVERSITY	OSA000000033	28,769	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	099660000-325611 (W81XWH201...	11,488	
12.RD	FEDERAL CONTRACTS		PASS-THROUGH	WASHINGTON STATE UNIVERSITY	W912HQ19C0065	7,563	
13.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	135238013	181,759	
14.506	GENERAL RESEARCH AND TECHNOLOGY ACTIVITY		DIRECT	DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD)		125,008	118,508
14.536	RESEARCH AND EVALUATIONS, DEMONSTRATIONS, AND DATA ANALYSIS AND UTILIZATION		DIRECT	DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD)		87,284	
14.536	RESEARCH AND EVALUATIONS, DEMONSTRATIONS, AND DATA ANALYSIS AND UTILIZATION		PASS-THROUGH	URBANSIM INC.	053136	45,009	
14.900	LEAD-BASED PAINT HAZARD CONTROL IN PRIVATELY-OWNED HOUSING		PASS-THROUGH	OHIO STATE UNIVERSITY	1000004625	27,147	
15.231	FISH, WILDLIFE AND PLANT CONSERVATION RESOURCE MANAGEMENT (DELETED IN 2020)		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		36,167	

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15.231	FISH, WILDLIFE AND PLANT CONSERVATION RESOURCE MANAGEMENT (DELETED IN 2020)		PASS-THROUGH	FRIENDS OF THE DESERT MOUNTAINS	21010122	25,000	
15.231	FISH, WILDLIFE AND PLANT CONSERVATION RESOURCE MANAGEMENT (DELETED IN 2020)		PASS-THROUGH	NATIONAL FISH AND WILDLIFE FOUNDATION	L16AC00431	144,736	74,140
15.232	JOINT FIRE SCIENCE PROGRAM		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		243,015	
15.233	FOREST AND WOODLANDS RESOURCE MANAGEMENT		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		53,091	
15.245	PLANT CONSERVATION AND RESTORATION MANAGEMENT		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		6,883	
15.246	THREATENED AND ENDANGERED SPECIES		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		331,361	17,215
15.247	WILDLIFE RESOURCE MANAGEMENT		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		114,525	43,757
15.423	BUREAU OF OCEAN ENERGY MANAGEMENT (BOEM) ENVIRONMENTAL STUDIES (ES)		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		751,663	103,464
15.423	BUREAU OF OCEAN ENERGY MANAGEMENT (BOEM) ENVIRONMENTAL STUDIES (ES)		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	SA0000474	(613)	
15.504	TITLE XVI WATER RECLAMATION AND REUSE		PASS-THROUGH	CALIFORNIA DELTA STEWARDSHIP COUNCIL	89D54-034	4,260	
15.504	TITLE XVI WATER RECLAMATION AND REUSE		PASS-THROUGH	CALIFORNIA DELTA STEWARDSHIP COUNCIL	89D54-000	2,429	
15.504	TITLE XVI WATER RECLAMATION AND REUSE		PASS-THROUGH	CALIFORNIA TROUT, INC.	06-001544	17,612	
15.506	WATER DESALINATION RESEARCH AND DEVELOPMENT		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		224,259	25,000
15.512	CENTRAL VALLEY IMPROVEMENT ACT, TITLE XXXIV		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		6,060,999	61,320
15.512	CENTRAL VALLEY IMPROVEMENT ACT, TITLE XXXIV		PASS-THROUGH	CALIFORNIA DELTA STEWARDSHIP COUNCIL	A20-0088-001	105,868	
15.512	CENTRAL VALLEY IMPROVEMENT ACT, TITLE XXXIV		PASS-THROUGH	CALIFORNIA DELTA STEWARDSHIP COUNCIL	18204	200,367	21,939
15.517	FISH AND WILDLIFE COORDINATION ACT		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		33	
15.521	LOWER RIO GRANDE VALLEY WATER RESOURCES CONSERVATION AND IMPROVEMENT		PASS-THROUGH	CALIFORNIA DELTA STEWARDSHIP COUNCIL	A20-0733-001	1,972	
15.530	WATER CONSERVATION FIELD SERVICES (WCFS)		PASS-THROUGH	METROPOLITAN WATER DIST OF SO CALIFORNIA	179074	212	
15.530	WATER CONSERVATION FIELD SERVICES (WCFS)		PASS-THROUGH	METROPOLITAN WATER DIST OF SO CALIFORNIA	191248	12,644	
15.533	CALIFORNIA WATER SECURITY AND ENVIRONMENTAL ENHANCEMENT		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		114,812	(5,551)
15.557	APPLIED SCIENCE GRANTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		1,865	
15.560	SECURE WATER ACT – RESEARCH AGREEMENTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		185,201	21,866
15.564	CENTRAL VALLEY PROJECT CONSERVATION		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		341,345	
15.608	FISH AND WILDLIFE MANAGEMENT ASSISTANCE		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		39,177	
15.608	FISH AND WILDLIFE MANAGEMENT ASSISTANCE		PASS-THROUGH	MICHIGAN STATE UNIVERSITY	RC109737-UCDAVIS	22,338	
15.614	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION PROGRAM		PASS-THROUGH	CALIFORNIA STATE COASTAL CONSERVANCY	16-044	78,640	
15.615	COOPERATIVE ENDANGERED SPECIES CONSERVATION FUND		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Q1940402	29,150	
15.615	COOPERATIVE ENDANGERED SPECIES CONSERVATION FUND		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Q1982002	40,376	4,627
15.615	COOPERATIVE ENDANGERED SPECIES CONSERVATION FUND		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	P2081	92,836	
15.615	COOPERATIVE ENDANGERED SPECIES CONSERVATION FUND		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	Q2140401	63,118	
15.630	COASTAL		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		2,916	
15.634	STATE WILDLIFE GRANTS		PASS-THROUGH	FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION	20006	12,868	
15.650	RESEARCH GRANTS (GENERIC)		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		-	
15.650	RESEARCH GRANTS (GENERIC)		PASS-THROUGH	SOUTHWEST WETLANDS INTERPRETIVE ASSOCIATION	20181562	7,185	
15.654	NATIONAL WILDLIFE REFUGE SYSTEM ENHANCEMENTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		17,621	
15.655	MIGRATORY BIRD MONITORING, ASSESSMENT AND CONSERVATION		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		14,807	
15.657	ENDANGERED SPECIES RECOVERY IMPLEMENTATION		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		550,492	
15.657	ENDANGERED SPECIES RECOVERY IMPLEMENTATION		PASS-THROUGH	ZOOLOGICAL SOCIETY OF SAN DIEGO	20211154	2,969	
15.657	ENDANGERED SPECIES RECOVERY IMPLEMENTATION		PASS-THROUGH	ZOOLOGICAL SOCIETY OF SAN DIEGO	20223569	3,209	
15.657	ENDANGERED SPECIES RECOVERY IMPLEMENTATION		PASS-THROUGH	ZOOLOGICAL SOCIETY OF SAN DIEGO	210829001	118,979	56,750
15.658	NATURAL RESOURCE DAMAGE ASSESSMENT AND RESTORATION		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		4,207	
15.660	CANDIDATE SPECIES CONSERVATION		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		47,685	
15.663	NFWF-USFWS CONSERVATION PARTNERSHIP		PASS-THROUGH	TROUT UNLIMITED	20162013	8,291	
15.664	FISH AND WILDLIFE COORDINATION AND ASSISTANCE		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		187,535	
15.670	ADAPTIVE SCIENCE		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		97,232	
15.678	COOPERATIVE ECOSYSTEM STUDIES UNITS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		799,849	
15.683	PREScott MARINE MAMMAL RESCUE ASSISTANCE		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		59,649	
15.805	ASSISTANCE TO STATE WATER RESOURCES RESEARCH INSTITUTES		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		146,611	6,903
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		1,801,269	
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	118063052	406	
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	131436716	(21,705)	
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	Sub 118062961 (G17AC00047)	1,893	
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	118062867-CYC1	5,936	
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	131436635	2,039	
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	131436635:1	(44)	

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15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	118063069-H	5,754	
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SCON-00002764	64,998	
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	118063069K	13,005	
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	118063069-J	18,713	
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	104714023E	351	
15.808	U.S. GEOLOGICAL SURVEY RESEARCH AND DATA COLLECTION		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		4,809,927	38,327
15.808	U.S. GEOLOGICAL SURVEY RESEARCH AND DATA COLLECTION		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	1314	10,254	
15.810	NATIONAL COOPERATIVE GEOLIC MAPPING		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		11,494	
15.815	NATIONAL LAND REMOTE SENSING EDUCATION OUTREACH AND RESEARCH		PASS-THROUGH	AMERICAVIEW	AV18-CA-01	21,717	
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS THROUGH	UNIVERSITY OF ARIZONA	478582	2,618	
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS-THROUGH	OCEANS INITIATIVE	A20-0558-001	(1,607)	
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	629236	33,938	
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	478582	122,530	
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	515664	(109)	
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	485764:1	58,054	
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	G18AC00320	70,909	
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	G19AP00038	67,992	
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	419572	5,095	5,095
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	597188	81,883	
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	629209	23,691	
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	G21AC10513-00	33,615	
15.820	NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	629235	23,271	
15.904	HISTORIC PRESERVATION FUND GRANTS-IN-AID		PASS-THROUGH	CALIFORNIA PARKS AND RECREATION, DEPARTMENT OF	C8965532	904	
15.922	NATIVE AMERICAN GRAVES PROTECTION AND REPATRIATION ACT		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		16,692	
15.923	NATIONAL CENTER FOR PRESERVATION TECHNOLOGY AND TRAINING		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		13,193	
15.933	PRESERVATION OF JAPANESE AMERICAN CONFINEMENT SITES		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		19,309	
15.944	NATURAL RESOURCE STEWARDSHIP COOPERATIVE RESEARCH AND TRAINING		PASS-THROUGH	COOPERATIVE ECOSYSTEM STUDIES UNITS	P21AC10870	17,000	
15.945	PROGRAMS – RESOURCES OF THE NATIONAL PARK SYSTEM COOPERATIVE RESEARCH AND TRAINING		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		1,998,661	18,600
15.945	PROGRAMS – RESOURCES OF THE NATIONAL PARK SYSTEM COOPERATIVE RESEARCH AND TRAINING		PASS-THROUGH	COOPERATIVE ECOSYSTEM STUDIES UNITS	P13AC00676	10,758	
15.945	PROGRAMS – RESOURCES OF THE NATIONAL PARK SYSTEM COOPERATIVE RESEARCH AND TRAINING		PASS-THROUGH	COOPERATIVE ECOSYSTEMS STUDIES UNITS	GNT0000450	6,422	
15.954	NATIONAL PARK SERVICE CONSERVATION, PROTECTION, OUTREACH, AND EDUCATION		PASS-THROUGH	NATIONAL WRITING PROJECT	NWP-72290	1,167	
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	050201	259,330	
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	140E0120C0004	349,021	49,673
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	4500151207	183,180	
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	IPA - ETACIROGLU	(58)	
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	IPA - FABAZARSA	77,542	
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	IPA - SEYEDGHAHARI	63,317	
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	IPA - ZKANGSHEN	48,883	
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	140R8121P0096	670	
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	Y20-5276	77	
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	140R1021P0044	42,449	
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	34088-30097304	113,322	
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	140R8121P0074	21,300	
15.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	E14PC00026	23,918	
15.RD	FEDERAL CONTRACTS		PASS-THROUGH	AMERICAN ASSOCIATION OF ZOOLOGICAL PARKS AND AQUARIUMS	30143815	108,781	
15.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	011344	40,593	
15.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA DIVISION OF BOATING AND WATERWAYS	C1370030	143,806	
15.RD	FEDERAL CONTRACTS		PASS-THROUGH	METRO LASER	UC126D102	85,702	
15.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	131436742M	7,339	
16.525	GRANTS TO REDUCE DOMESTIC VIOLENCE, DATING VIOLENCE, SEXUAL ASSAULT, AND STALKING ON CAMPUS		DIRECT	DEPARTMENT OF JUSTICE (DOJ)		153,128	
16.560	NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT PROJECT GRANTS		DIRECT	DEPARTMENT OF JUSTICE (DOJ)		2,239,752	450,641
16.560	NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT PROJECT GRANTS		PASS-THROUGH	JUSTICE AND SECURITY STRATEGIES, INC.	2018-75-CX-0003	132,899	
16.560	NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT PROJECT GRANTS		PASS-THROUGH	NATIONAL OPINION RESEARCH CENTER	NORC-77006	59,764	
16.560	NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT PROJECT GRANTS		PASS-THROUGH	SAM HOUSTON STATE UNIVERSITY	Sub 22156B (2019-DU-BX-0025)	1,580	

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16.560	NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT PROJECT GRANTS		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	SUB CNVA00059288 (413841-5) (2	13,488	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	2017VAGX0084	64,611	
16.590	GRANTS TO ENCOURAGE ARREST POLICIES AND ENFORCEMENT OF PROTECTION ORDERS PROGRAM		PASS-THROUGH	CONTRA COSTA COUNTY	20-084-0	17,531	
16.754	HAROLD ROGERS PRESCRIPTION DRUG MONITORING PROGRAM		DIRECT	DEPARTMENT OF JUSTICE (DOJ)		333,815	13,606
16.817	INNOVATIONS IN COMMUNITY-BASED CRIME REDUCTION		PASS-THROUGH	LOCAL INITIATIVES SUPPORT CORPORATION	5244	39,338	
17.268	H-1B JOB TRAINING GRANTS		DIRECT	DEPARTMENT OF LABOR (DOL)		1,196,593	451,119
17.401	INTERNATIONAL LABOR PROGRAMS		DIRECT	DEPARTMENT OF LABOR (DOL)		-	
17.502	OCCUPATIONAL SAFETY AND HEALTH SUSAN HARWOOD TRAINING GRANTS		DIRECT	DEPARTMENT OF LABOR (DOL)		167,769	
19.019	INTERNATIONAL PROGRAMS TO COMBAT HUMAN TRAFFICKING		PASS-THROUGH	INNOVATIONS FOR POVERTY ACTION	INNOVAT-72216	34,782	
19.025	U.S. AMBASSADORS FUND FOR CULTURAL PRESERVATION		DIRECT	DEPARTMENT OF STATE		25,477	19,885
19.121	CONFLICT AND STABILIZATION OPERATIONS		DIRECT	DEPARTMENT OF STATE		202,634	
19.221	REGIONAL DEMOCRACY PROGRAM		DIRECT	DEPARTMENT OF STATE		145,372	
19.303	DECRYPTING PRC INDUSTRIAL AND TECHNOLOGY POLICY		DIRECT	DEPARTMENT OF STATE		299,514	
19.345	INTERNATIONAL PROGRAMS TO SUPPORT DEMOCRACY, HUMAN RIGHTS AND LABOR		PASS-THROUGH	FREEDOM HOUSE INC	20-DOS142-02	(4,737)	
19.345	INTERNATIONAL PROGRAMS TO SUPPORT DEMOCRACY, HUMAN RIGHTS AND LABOR		PASS-THROUGH	THE TOR PROJECT INC.	30075203	465	
19.600	BUREAU OF NEAR EASTERN AFFAIRS		PASS-THROUGH	HALA SYSTEMS, INC.	HALA-2022-02	43,489	
19.700	GENERAL DEPARTMENT OF STATE ASSISTANCE		PASS-THROUGH	COMMISSION OF INTERNATIONAL JUSTICE AND ACCOUNTABILITY	048239	(1,045)	
19.705	TRANS-NATIONAL CRIME		DIRECT	DEPARTMENT OF STATE		80,834	19,834
19.900	AEECA/ESF PD PROGRAMS		PASS-THROUGH	AMERICAN COUNCILS FOR INTERNATIONAL EDUCATION	10183SHAKHZOD	6,785	
19.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF STATE	19AQMM19P1591	14,937	
20.106	AIRPORT IMPROVEMENT PROGRAM		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		41,968	
20.108	AVIATION RESEARCH GRANTS		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		38,932	
20.109	AIR TRANSPORTATION CENTERS OF EXCELLENCE		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		83,832	
20.109	AIR TRANSPORTATION CENTERS OF EXCELLENCE		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	55171 - PO 523807	34,825	
20.200	HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		303,579	93,005
20.200	HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM		PASS-THROUGH	CONTRA COSTA TRANSPORTATION AUTHORITY	549	2,044	
20.200	HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM		PASS-THROUGH	MINNESOTA DEPARTMENT OF TRANSPORTATION	1034818	24,051	
20.200	HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM		PASS-THROUGH	UNIVERSITY OF CINCINNATI	20210466	251,642	
20.200	HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM		PASS-THROUGH	VIRGINIA TRANSPORTATION RESEARCH COUNCIL	VTRC-71D61	39,640	
20.215	HIGHWAY TRAINING AND EDUCATION		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		163,995	
20.232	COMMERCIAL DRIVER'S LICENSE PROGRAM IMPLEMENTATION GRANT		PASS-THROUGH	UNIVERSITY OF CINCINNATI	013289-002	200,176	
20.301	COVID-19 - RAILROAD SAFETY	COVID-19	DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		299	
20.505	METROPOLITAN TRANSPORTATION PLANNING AND STATE AND NON-METROPOLITAN PLANNING AND RESEARCH		PASS-THROUGH	METROPOLITAN TRANSPORTATION AUTHORITY	051873	117,968	
20.514	PUBLIC TRANSPORTATION RESEARCH, TECHNICAL ASSISTANCE, AND TRAINING		PASS-THROUGH	ENO TRANSPORTATION FOUNDATION INC.	20183987	46,029	
20.530	PUBLIC TRANSPORTATION INNOVATION		PASS-THROUGH	CONTRA COSTA TRANSPORTATION AUTHORITY	567	8,532	
20.701	COVID-19 - UNIVERSITY TRANSPORTATION CENTERS PROGRAM	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	84381457	307,852	
20.701	UNIVERSITY TRANSPORTATION CENTERS PROGRAM		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		2,387,349	651,515
20.701	UNIVERSITY TRANSPORTATION CENTERS PROGRAM		PASS-THROUGH	CORNELL UNIVERSITY	79841-10829	318,110	
20.701	UNIVERSITY TRANSPORTATION CENTERS PROGRAM		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60057004UCB	179,443	
20.701	UNIVERSITY TRANSPORTATION CENTERS PROGRAM		PASS-THROUGH	OHIO STATE UNIVERSITY	OSU-77972	123,368	
20.701	UNIVERSITY TRANSPORTATION CENTERS PROGRAM		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	008768	297,675	
20.701	UNIVERSITY TRANSPORTATION CENTERS PROGRAM		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA SYSTEM	5106575	241,435	
20.701	UNIVERSITY TRANSPORTATION CENTERS PROGRAM		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	2117-9070-00-C	413,629	
20.701	UNIVERSITY TRANSPORTATION CENTERS PROGRAM		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	011587	920	
20.701	UNIVERSITY TRANSPORTATION CENTERS PROGRAM		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	011922	35,364	
20.701	UNIVERSITY TRANSPORTATION CENTERS PROGRAM		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	84377997:2	354,411	
20.701	UNIVERSITY TRANSPORTATION CENTERS PROGRAM		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SCON-00002200	56,769	
20.723	PHMSA PIPELINE SAFETY RESEARCH AND DEVELOPMENT "OTHER TRANSACTION AGREEMENTS"		PASS-THROUGH	NORTHEAST GAS ASSOCIATION	M2019-004	644,210	
20.724	PIPELINE SAFETY RESEARCH COMPETITIVE ACADEMIC AGREEMENT PROGRAM (CAAP)		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		125,860	
20.817	AIR EMISSIONS AND ENERGY INITIATIVE		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		4,204	
20.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)	693JJ320C000009	1,637,415	157,379
20.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)	693JJ619C000008	145,278	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA ASSOCIATION FOR COORDINATED TRANSPORTATION, INCOR	051370	68,226	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION	65A0638	1,950	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	CONTRA COSTA TRANSPORTATION AUTHORITY	568	181,518	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	DUNLAP AND ASSOCIATES, INC.	A204440	46,904	

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20.RD	FEDERAL CONTRACTS		PASS-THROUGH	ICF INTERNATIONAL, INC.	2006172042	36,450	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	KERN COUNCIL OF GOVERNMENTS	A20-3269	37,890	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	LEIDOS, INC.	P010245021	228,866	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	LEIDOS, INC.	P010207183	(252)	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	LEIDOS, INC.	P010248252	28,694	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	LEIDOS, INC.	P010230143	3,135	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	SACRAMENTO AREA COUNCIL OF GOVERNMENTS	SACOG MASTER	14,954	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS	012342	83,804	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRANSPORTATION RESEARCH CENTER INC.	20214041	72,898	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	013809-00002	28,673	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	85022-29463201	14,471	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	96323-29665201	119,226	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	97305-29671201	85,949	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	109962-29840201	6,724	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	108130	144,680	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	134351675	23,372	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	84380215	231,025	
20.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SCON00002197	82,693	
21.015	RESOURCES AND ECOSYSTEMS SUSTAINABILITY, TOURIST OPPORTUNITIES, AND REVIVED ECONOMIES OF THE GULF COAST STATES		PASS-THROUGH	SAN DIEGO COUNTY	566097	86,719	
21.015	RESOURCES AND ECOSYSTEMS SUSTAINABILITY, TOURIST OPPORTUNITIES, AND REVIVED ECONOMIES OF THE GULF COAST STATES		PASS-THROUGH	UNITED WOMEN OF EAST AFRICA	Sub 30076794 (563295)	72,680	
21.RD	FEDERAL CONTRACTS		PASS-THROUGH	MITRE CORPORATION, THE	MSA-000021	32,287	
27.011	INTERGOVERNMENTAL PERSONNEL ACT (IPA) MOBILITY PROGRAM		DIRECT	DEPARTMENT OF DEFENSE		143,221	
29.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1678051	2,716	
39.RD	FEDERAL CONTRACTS		DIRECT	GENERAL SERVICES ADMINISTRATION	051489	25,900	
39.RD	FEDERAL CONTRACTS		DIRECT	GENERAL SERVICES ADMINISTRATION	IPA - JASCOOPER	40,273	
39.RD	FEDERAL CONTRACTS		DIRECT	GENERAL SERVICES ADMINISTRATION	053121	19,108	
43.001	COVID-19 - SCIENCE	COVID-19	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		1,193,907	14,950
43.001	COVID-19 - SCIENCE	COVID-19	PASS-THROUGH	CONSORTIUM FOR OCEAN LEADERSHIP	SA20-01	7,927	
43.001	COVID-19 - SCIENCE	COVID-19	PASS-THROUGH	JET PROPULSION LABORATORY	1524322	104,847	
43.001	COVID-19 - SCIENCE	COVID-19	PASS-THROUGH	JET PROPULSION LABORATORY	1620723	103,309	
43.001	COVID-19 - SCIENCE	COVID-19	PASS-THROUGH	JET PROPULSION LABORATORY	1647964	67,533	
43.001	COVID-19 - SCIENCE	COVID-19	PASS-THROUGH	MCLEAN HOSPITAL	401498	69,420	
43.001	COVID-19 - SCIENCE	COVID-19	PASS-THROUGH	ROCHESTER INSTITUTE OF TECHNOLOGY	31967-02	28,692	
43.001	COVID-19 - SCIENCE	COVID-19	PASS-THROUGH	ROCHESTER INSTITUTE OF TECHNOLOGY	32463-02	87,960	
43.001	COVID-19 - SCIENCE	COVID-19	PASS-THROUGH	UNIVERSITIES SPACE RESEARCH ASSOCIATION	08-0095	2,799	
43.001	SCIENCE		DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		21,959	
43.001	SCIENCE		DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		52,856,358	7,258,294
43.001	SCIENCE		DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	80NSSC19K1043	82,889	
43.001	SCIENCE		PASS THROUGH	JET PROPULSION LABORATORY	Sub 1642277	2,340	
43.001	SCIENCE		PASS THROUGH	JET PROPULSION LABORATORY	1618801	9,342	
43.001	SCIENCE		PASS THROUGH	JET PROPULSION LABORATORY	SUB 1656366 (FORMERLY 1642277)	5,488	
43.001	SCIENCE		PASS THROUGH	STATE OF MONTANA	30073675	32,789	
43.001	SCIENCE		PASS THROUGH	UNIVERSITY OF MIAMI	0500000337	32,728	
43.001	SCIENCE		PASS THROUGH	UNIVERSITY OF WISCONSIN-MADISON	1288	27,008	
43.001	SCIENCE		PASS-THROUGH	AEROSPACE CORPORATION	4600006620	8,168	
43.001	SCIENCE		PASS-THROUGH	ARIZONA STATE UNIVERSITY	009968	33,892	
43.001	SCIENCE		PASS-THROUGH	ARIZONA STATE UNIVERSITY	A16-0487-008	34,629	
43.001	SCIENCE		PASS-THROUGH	ARIZONA STATE UNIVERSITY	A19-0435-001	53,783	
43.001	SCIENCE		PASS-THROUGH	ARIZONA STATE UNIVERSITY	ASUB00000023	(1,024)	
43.001	SCIENCE		PASS-THROUGH	ARIZONA STATE UNIVERSITY	80NSSC19K0475	1,782	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15265.002-A	(7,538)	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	SUB HST-GO-15612.005-A	(4,171)	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	Sub STScI-52358 (80NS...	105,226	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	007575	(1,368)	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	010021	46,002	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	010274	31,549	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	010874	42,834	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	011509	17,971	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A17-0548-001	1,433	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A18-0596-001	8,011	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A18-0610-001	51,776	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A18-0624-001	66,374	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A18-0626-001	51,407	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A19-0649-001	97,095	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A19-0690-001	20,164	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A19-0752-001	6,103	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A19-0757-001	12,265	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A20-0426-001	133,041	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A20-0568-001	27,115	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A20-0572-001	47,679	

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43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A20-0573-001	(2,265)	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A20-0577-001	2,983	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A20-0587-001	47,694	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A20-0588-001	7,469	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A20-0662-001	30,047	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A20-0717-001	(867)	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A20-0750-001	5,454	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A21-0315-001	23,028	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A21-0411-001	96,313	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A21-0541-001	15,052	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A21-0561-001	10,151	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-AR-15801.001-A	281	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-AR-16143.001-A	35,923	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-14744.002-A	2,695	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15096.003-A:1	6,271	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15115.002-A	11,795	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15199.001-A	15,249	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15212.007-A	63,237	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15226.002-A	11,180	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15287.001-A	244	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15320.001-A	1,160	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15471.001-A:2	(2,586)	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15481.002-A	11,540	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15623.002-A	4,822	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15652.001-A	79,060	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15706.002-A	7,550	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15910.002-A	14,528	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15972.001-A	23,532	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15973.001-A	(315)	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16009.001-A	11,385	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16041.001-A	10,516	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16087.001-A	58,207	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16309.001-A	55,256	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	JWST-ERS-01324.001-A:1	67,114	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-14646.003-A	22	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-14117.003-A	25	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-AR-15809.001-A	40,321	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15902.033-A	58,963	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15923.002-A	10,799	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-KA0320	144,581	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-HF-PE0824	128,468	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-KA0120	57,466	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15652	15,271	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16111.001-A	23,657	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	NASA 005-A	10,000	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HSTGO16204005A	12,585	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	NASA 005-A	1,321	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	NASA 16073.002-A	37,580	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16308.001-A	11,625	

**University of California
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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16196.010-A	105,418	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16463.001-A	42,107	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	NASA 001-A	47,061	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	NASA 16192.002-A	376	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15177	32,038	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15931.002-A	10,576	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16238.001-A	80,015	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16239.001-A	23,331	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16297.002-A	28,496	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16274.002-A	29,464	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-AR-16625.005-A	41,497	
43.001	SCIENCE		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16691	33,148	
43.001	SCIENCE		PASS-THROUGH	BANPIL PHOTONICS, INC.	A22-1801	81,548	
43.001	SCIENCE		PASS-THROUGH	BOISE STATE UNIVERSITY	8974-P0137171:1	97,746	
43.001	SCIENCE		PASS-THROUGH	BOISE STATE UNIVERSITY	PO139411	3,064	
43.001	SCIENCE		PASS-THROUGH	BOSTON UNIVERSITY	4500002617-002	45	
43.001	SCIENCE		PASS-THROUGH	BOSTON UNIVERSITY	4500003664	80,058	
43.001	SCIENCE		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	5437620	34,194	
43.001	SCIENCE		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	011169	17,150	
43.001	SCIENCE		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S390588:02	42,621	
43.001	SCIENCE		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	80NSSC19M0129	120,173	
43.001	SCIENCE		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY SAN MARCOS CORPORATION	92329/85142 - UCSB	10,886	
43.001	SCIENCE		PASS-THROUGH	CLEMSON UNIVERSITY	2151-204-2013427	200,983	
43.001	SCIENCE		PASS-THROUGH	COLORADO STATE UNIVERSITY	G-96614-0	11,674	
43.001	SCIENCE		PASS-THROUGH	COLUMBIA UNIVERSITY	4(GG016)	95,616	
43.001	SCIENCE		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG016) PETER	24,977	
43.001	SCIENCE		PASS-THROUGH	DARTMOUTH COLLEGE	R1443	64,961	
43.001	SCIENCE		PASS-THROUGH	DREXEL UNIVERSITY	850059	152,596	
43.001	SCIENCE		PASS-THROUGH	DREXEL UNIVERSITY	950019	63,858	
43.001	SCIENCE		PASS-THROUGH	EARTH AND SPACE RESEARCH	ESR-2016-224-UCSD	81	
43.001	SCIENCE		PASS-THROUGH	FLORIDA GULF COAST UNIVERSITY	20113-UCB-01	12,214	
43.001	SCIENCE		PASS-THROUGH	FREEDOM PHOTONICS LLC	Sub S-7209-01 (80NSSC21C0402)	49,998	
43.001	SCIENCE		PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	AWD-102551-G4	13,255	
43.001	SCIENCE		PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	AWD-000836-G1	25,531	
43.001	SCIENCE		PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	RJ249-G2	75,000	
43.001	SCIENCE		PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	AWD000114-GI	15,968	
43.001	SCIENCE		PASS-THROUGH	GSI ENVIRONMENTAL, INC	SC2018-111-UCLA	132,935	54,923
43.001	SCIENCE		PASS-THROUGH	HARVARD UNIVERSITY	134338	4,540	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1674228	42,517	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1536981	(283)	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1612525	1,008	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1618801	94,627	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1661809	22,913	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	Sub 1642277	2,689	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	SUB 1654396	(3,727)	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	SUB 1656366 (FORMERLY 1642277)	28,882	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	012026	39,678	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	012027	(5)	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1401886-013	95,291	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1409809-044	1,030	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1512986:002	795,591	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1525520:005	19	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1537426:012	460,355	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1652929	5,309	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1657272	42,877	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	A16-0081-001	63,322	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	A20-0625-001	8,857	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	A20-0772-001	538	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	203278UCB-Salahuddin (DSS)	10,928	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1564598	25,672	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	1647990	387	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	166524	71,830	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	JPL-77730	31,077	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	JPL-77743	7,646	
43.001	SCIENCE		PASS-THROUGH	JET PROPULSION LABORATORY	JPL-77947	24,999	
43.001	SCIENCE		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	132224:11	70,394	
43.001	SCIENCE		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	168014	66,141	
43.001	SCIENCE		PASS-THROUGH	KANSAS STATE UNIVERSITY	A20-0571-S001	28,386	
43.001	SCIENCE		PASS-THROUGH	METRON AVIATION, INC.	HA0919	1,190	
43.001	SCIENCE		PASS-THROUGH	MONTANA STATE UNIVERSITY	G241-19-W7767	117,617	
43.001	SCIENCE		PASS-THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	A17-0665-004	44,274	
43.001	SCIENCE		PASS-THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	A20-0161-001	125,574	
43.001	SCIENCE		PASS-THROUGH	NEW JERSEY INSTITUTE OF TECHNOLOGY	JER050426	21,821	
43.001	SCIENCE		PASS-THROUGH	NEW JERSEY INSTITUTE OF TECHNOLOGY	17-PHYS-209378-UCLA:2	3,932	
43.001	SCIENCE		PASS-THROUGH	NEW JERSEY INSTITUTE OF TECHNOLOGY	051543	17,869	
43.001	SCIENCE		PASS-THROUGH	NEW MEXICO STATE UNIVERSITY	SUB Q02252 (80NSSC21K0551)	28,006	
43.001	SCIENCE		PASS-THROUGH	NEW MEXICO STATE UNIVERSITY	Q02259	23,597	
43.001	SCIENCE		PASS-THROUGH	NORTHERN ARIZONA UNIVERSITY	A18-0732-003	17,376	
43.001	SCIENCE		PASS-THROUGH	NORTHWEST INDIAN COLLEGE	A17-0857-002	22,014	
43.001	SCIENCE		PASS-THROUGH	NORTHWEST RESEARCH ASSOCIATES, INC.	NWRA-20-S-213	21,821	
43.001	SCIENCE		PASS-THROUGH	OHIO STATE UNIVERSITY	GR12528	9,028	
43.001	SCIENCE		PASS-THROUGH	PLANETARY SCIENCE INSTITUTE	1566 UCLA:3	19,282	
43.001	SCIENCE		PASS-THROUGH	PLANETARY SCIENCE INSTITUTE	1660-UCLA	23,247	
43.001	SCIENCE		PASS-THROUGH	PLANETARY SCIENCE INSTITUTE	1705-UCLA	35,765	
43.001	SCIENCE		PASS-THROUGH	PLANETARY SCIENCE INSTITUTE	A17-0402-006	2,593	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
43.001	SCIENCE		PASS-THROUGH	PREDICTIVE SCIENCE INC.	20181402	11,289	
43.001	SCIENCE		PASS-THROUGH	PREDICTIVE SCIENCE INC.	92820	56,372	
43.001	SCIENCE		PASS-THROUGH	PRINCETON UNIVERSITY	SUB0000304	2,507	
43.001	SCIENCE		PASS-THROUGH	PURDUE UNIVERSITY	012065	60,772	
43.001	SCIENCE		PASS-THROUGH	Q-PEAK	SUB SC-30-01033-2764-46 (80NSS)	23,356	
43.001	SCIENCE		PASS-THROUGH	RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	CIT-CM000	13,508	
43.001	SCIENCE		PASS-THROUGH	RICE UNIVERSITY	R53822	98,631	
43.001	SCIENCE		PASS-THROUGH	RICE UNIVERSITY	80NSSC18K0828	89,505	
43.001	SCIENCE		PASS-THROUGH	RILEE SYSTEMS TECHNOLOGIES LLC	80NSSC18M0118-1	67,984	
43.001	SCIENCE		PASS-THROUGH	ROCHESTER INSTITUTE OF TECHNOLOGY	31967-01	41,789	
43.001	SCIENCE		PASS-THROUGH	ROCHESTER INSTITUTE OF TECHNOLOGY	RIT-77724	20,110	
43.001	SCIENCE		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	1947	8,024	
43.001	SCIENCE		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	SUB 0643 (80NSSC18M0093)	109,201	
43.001	SCIENCE		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	A19-0729-001	131,137	
43.001	SCIENCE		PASS-THROUGH	SAN JOSE STATE UNIVERSITY RESEARCH FOUNDATION	008690	7,418	
43.001	SCIENCE		PASS-THROUGH	SEA-BIRD ELECTRONICS, INC.	F2020-002	318,871	
43.001	SCIENCE		PASS-THROUGH	SETI INSTITUTE	SC 3354	13,143	
43.001	SCIENCE		PASS-THROUGH	SETI INSTITUTE	009725	54,549	
43.001	SCIENCE		PASS-THROUGH	SMITHSONIAN INSTITUTE	AR8-19024X	(241)	
43.001	SCIENCE		PASS-THROUGH	SMITHSONIAN INSTITUTE	G08-19030X	(241)	
43.001	SCIENCE		PASS-THROUGH	SMITHSONIAN INSTITUTE	AR9-20005B	19,468	
43.001	SCIENCE		PASS-THROUGH	SMITHSONIAN INSTITUTE	G09-20045X	47,686	
43.001	SCIENCE		PASS-THROUGH	SMITHSONIAN INSTITUTE	G01-221	29,815	
43.001	SCIENCE		PASS-THROUGH	SMITHSONIAN INSTITUTE	G01-9048X	17,834	
43.001	SCIENCE		PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	M99050EH	41,258	
43.001	SCIENCE		PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	M99056DS	49,088	
43.001	SCIENCE		PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	SUB N99059EH (80GSFC18C0014)	26,201	
43.001	SCIENCE		PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	699046X-28	70,908	
43.001	SCIENCE		PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	A20-0408-001	(770)	
43.001	SCIENCE		PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	L99039MM:1	21,507	
43.001	SCIENCE		PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	M99019CAC	9,219	
43.001	SCIENCE		PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	Q99021EH	40,000	
43.001	SCIENCE		PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	N99103LJ	11,778	
43.001	SCIENCE		PASS-THROUGH	SRI INTERNATIONAL	P036751	11,595	
43.001	SCIENCE		PASS-THROUGH	STANFORD UNIVERSITY	62356549-145590	39,287	
43.001	SCIENCE		PASS-THROUGH	STANFORD UNIVERSITY	A00-1350-024	36,170	
43.001	SCIENCE		PASS-THROUGH	STANFORD UNIVERSITY	A20-0432-001	74,017	
43.001	SCIENCE		PASS-THROUGH	STATE OF MONTANA	30073675	47,771	
43.001	SCIENCE		PASS-THROUGH	STATE UNIVERSITY OF NEW YORK	1169651-2-91932	37,186	
43.001	SCIENCE		PASS-THROUGH	THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY LLC	JHU 169936	30,857	
43.001	SCIENCE		PASS-THROUGH	THE SMITHSONIAN ASTROPHYSICAL OBSERVATORY	G01-22138X	127,001	
43.001	SCIENCE		PASS-THROUGH	THE SMITHSONIAN ASTROPHYSICAL OBSERVATORY	A19-0658-001	6,796	
43.001	SCIENCE		PASS-THROUGH	THE SMITHSONIAN ASTROPHYSICAL OBSERVATORY	DD0211	51,263	
43.001	SCIENCE		PASS-THROUGH	THE SMITHSONIAN ASTROPHYSICAL OBSERVATORY	SV1-1	48,573	
43.001	SCIENCE		PASS-THROUGH	THE SMITHSONIAN ASTROPHYSICAL OBSERVATORY	G0122034X	1,303	
43.001	SCIENCE		PASS-THROUGH	THE SMITHSONIAN ASTROPHYSICAL OBSERVATORY	SAO-24954	56,700	
43.001	SCIENCE		PASS-THROUGH	THE SMITHSONIAN ASTROPHYSICAL OBSERVATORY	SAO-24956	41,482	
43.001	SCIENCE		PASS-THROUGH	THE UNIVERSITY OF ALABAMA	A00-513-S001	106,261	
43.001	SCIENCE		PASS-THROUGH	THE UNIVERSITY OF ALABAMA	2021-1332	13,376	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITIES SPACE RESEARCH ASSOCIATION	SUB 08-0086 (NNA17BF53C)	4,125	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITIES SPACE RESEARCH ASSOCIATION	02298-04	65,773	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITIES SPACE RESEARCH ASSOCIATION	07-0239	1,382	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITIES SPACE RESEARCH ASSOCIATION	08-0103	12,508	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY AT BUFFALO A STATE UNIVERSITY OF NEW YORK CAMPUS - SUNY	R1264148	6,521	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY CORPORATION AT MONTEREY BAY	180821-5035504A-S-A	31,282	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	UCAR SUBAWARD 002494	50,924	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	SUBAWD000668:1	274	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF ALASKA SYSTEM	UAF 20-0029	46,520	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF ALASKA SYSTEM	UAF 20-0056	33,765	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF ARIZONA	010750	3,482	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF ARIZONA	A16-0505-005	296,340	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF ARIZONA	A20-0166-001	20,750	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF ARIZONA	A20-0436-001	2,944	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF ARIZONA	596840	1,433	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF ARIZONA	80NSSC21K1478	18,326	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF ARIZONA	599256	49,794	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF CENTRAL FLORIDA	012070	128,370	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF CENTRAL FLORIDA	A21-0467-001	12,191	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF CENTRAL FLORIDA	24086A35	44,273	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF CHICAGO	SUB FP061308-A[NNX16AJ34G]	10,249	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD101790	111,759	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1554208	13,631	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1554485-1000818335	63,847	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1559265	53,661	18,934
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1559618	15,421	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	SUB 1557647 (80NSSC19K038Z)	293	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1558900	13,051	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FV19-977.001	53,537	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1546525:10	123,055	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1556287	21,270	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1556906	138,636	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1557517	63,735	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1557867	288	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1559320	104,664	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1559841	117,442	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	155A053	(1,355)	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF DELAWARE	48247	137,365	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF DELAWARE	58185	72,964	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF DELAWARE	A19-0541-001	58,887	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF FLORIDA	A20-0434-001	150,991	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF HAWAII SYSTEM	MA1306	5,073	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF HOUSTON	R-20-0013	123,905	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF HOUSTON	R22000033	8,876	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF IDAHO	3554880905	20,335	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF IOWA	1001515160	63	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF IOWA	S00973-01	162,479	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF IOWA	S01120-01	7,545	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF IOWA	S01390-01	53,169	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF IOWA	1001745125:10	45,952	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF IOWA	S01117-01	30,880	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF IOWA	S01485-01	14,412	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MAINE SYSTEM	UMS1282	77,842	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MARYLAND, BALTIMORE	87355-26260201	10,147	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	78798-26199202	50,892	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	87923-26267203	38,037	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	SUB 79032-Z620821(80NSSC19K05	4,824	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	54296-26059207	232,054	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	87927-26267204	43,882	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	8000768569:1	164,188	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK000008080	(38)	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MICHIGAN	3004683323:1	173	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00017342	5,094	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A005276801	34,227	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A005821701	29,698	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A00896901	(6,298)	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MINNESOTA	SUB A007249101 (80NSSC19K0858	13,758	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MINNESOTA	20204494	334,381	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MISSOURI	C00077406-4(80NSSC21K0596)	20,869	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF MISSOURI	UM-77663	21,534	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF NEW HAMPSHIRE	L0026	(21,029)	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF NEW HAMPSHIRE	06-001	604,357	53,333
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF NEW MEXICO	UNM 707940-873P	37,188	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	118062835	21,475	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	118063018	19,422	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	011621	8,792	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	USC-38C58	24,252	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF TEXAS AT ARLINGTON	2019GC0724	46,788	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF TEXAS AT ARLINGTON	2021GC0619	5,168	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA19-000493	66,261	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF TEXAS AT DALLAS	1705881:001	33,949	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF TEXAS AT DALLAS	1806773	13,269	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF TEXAS AT DALLAS	1907677	18,494	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	1288	69,466	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	00000000144	11,689	
43.001	SCIENCE		PASS-THROUGH	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	426717-19910	31,071	
43.001	SCIENCE		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-61986	19,039	
43.001	SCIENCE		PASS-THROUGH	WESTED	S00030264.0	212,435	
43.001	SCIENCE		PASS-THROUGH	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A101349	(16)	
43.001	SCIENCE		PASS-THROUGH	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A18-0503-001	151,898	
43.001	SCIENCE		PASS-THROUGH	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A101564	5,204	
43.001	SCIENCE		PASS-THROUGH	WOODS HOLE OCEANOGRAPHIC INSTITUTION	23015800	39,170	
43.001	SCIENCE		PASS-THROUGH	WYLE LABORATORIES	T72556	(13,044)	
43.002	AERONAUTICS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		748,564	215,315	
43.002	AERONAUTICS	PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S403570	1,392,106		
43.002	AERONAUTICS	PASS-THROUGH	STANFORD UNIVERSITY	62508787-176172	98,771		
43.002	AERONAUTICS	PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC12243	68,221		
43.002	COVID-19 - AERONAUTICS	Covid-19	PASS-THROUGH	JET PROPULSION LABORATORY	1528152	206,905	85,091
43.003	EXPLORATION	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		1,131,836	332,689	
43.003	EXPLORATION	PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	INN0001	156,457		
43.003	EXPLORATION	PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	SUB 7000001284 (NNX16AO69A)	11,783		
43.003	EXPLORATION	PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	NNX16AO69A	102,221		
43.003	EXPLORATION	PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	CBET-1506474	326,395	12,830	
43.003	EXPLORATION	PASS-THROUGH	LOMA LINDA UNIVERSITY	2180202	77,601		
43.003	EXPLORATION	PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	J99018CP	30,772		
43.003	EXPLORATION	PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1555630:10	28,453		
43.007	SPACE OPERATIONS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		635,965		
43.007	SPACE OPERATIONS	PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	578892	37,030		
43.008	OFFICE OF STEM ENGAGEMENT (OSTEM)	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		2,184,487	168,006	
43.008	OFFICE OF STEM ENGAGEMENT (OSTEM)	PASS-THROUGH	UNIVERSITY OF TEXAS AT SAN ANTONIO	1000003323	38,033		
43.009	SAFETY, SECURITY AND MISSION SERVICES	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		68,750		
43.011	OFFICE OF INSPECTOR GENERAL	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		109,361		
43.012	SPACE TECHNOLOGY	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		9,704,935	3,283,743	
43.012	SPACE TECHNOLOGY	PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-AR DO	48,041		
43.012	SPACE TECHNOLOGY	PASS-THROUGH	STANFORD UNIVERSITY	62044742-137652	220		
43.RD	COVID-19 - FEDERAL CONTRACTS	Covid-19	PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	77725-023	10,370	
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	00010187	17,568		
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	00010350	58,909		
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	80GSCF17C0018:P00003	394,989		
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	80GSCF17C0044:7	297,032		
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	80GSCF20C0068	2,077,451		
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	80GSCF21C0004	1,746,614		
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	80GSCF21C0024	86,650		
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	80GSCF21C0038	16,869,349	9,482,710	
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	80GSCF21C0059	1,549,627	245,344	
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	80GSCF21CA003	790,968		
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	80GSCF21CA004	787,290		
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	80MSFC19C0041	7,976,240	4,476,472	
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	80MSFC20C0025	619,426	349,816	
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	A16-0381-5006:A05	(55,873)		
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	NAS5-02099	5,870,073	457,877	
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	NAS5-98033	207		
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	NNG09EK06C:47	2,365,349	1,206,144	
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	NNG12FA45C	4,796,749	1,531,581	
43.RD	FEDERAL CONTRACTS	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	SB210261	10,341		
43.RD	FEDERAL CONTRACTS	PASS-THROUGH	SPACE TANGO, INC.	SUB 30055717(80JSC017D0019)	10,050		
43.RD	FEDERAL CONTRACTS	PASS-THROUGH	AMETHYST RESEARCH, INC.	UCSB-01	21,014		
43.RD	FEDERAL CONTRACTS	PASS-THROUGH	ARIZONA STATE UNIVERSITY	17-253-06	42,115		
43.RD	FEDERAL CONTRACTS	PASS-THROUGH	ARKANSAS TECH UNIVERSITY	NASA 063021	3,104		

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-AR-15056.001-A	39,781	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-AR-16141.002-A		(946)
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-13937.003-A	147,929	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-14118-002	13,330	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15145.003-A	223	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15166.001-A		(616)
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15275.012-A	36,584	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15476.001-A	68,882	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15640.003-A	875	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15653.001-A	160,281	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15665.001-A	91,434	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15834.004-A	350	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15889.002-A	22,022	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15901.001-A	57,270	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15902.001-A	152,251	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15918.002-A	4,581	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15936.003-A	17,357	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16084.001-A	871	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16179.001-A	2,848	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16198.003-A	2,848	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16269.004-A	16,096	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16454.001-A	21,459	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-HF2-51412.001-A	103,334	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-HF2-51447.001-A (NASS- 265	102,772	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-HF2-51461.001-A	66,335	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	JWST-ERS-01334.001-A	175	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	SUB HST-GO-16032.001-A (NAS	3,948	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	Sub HST-GO- 15461.001-A (NASS-	4,473	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	SUB HST-GO-15080.001-A(NONE)	4,236	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	SUB HST-GO-15096.007-A (NA...	41,965	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	SUB HST-GO-15817.001-A (NASS-	205	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	009543	32,083	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	010391	37,776	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	011675	88,928	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-AR-15797.001-A	39,167	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15840.008-A	35,456	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16057.001-A	8,519	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16074.001-A	8,779	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16318.002-A	51,096	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	42491	3,503	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16886.002-A	1,872	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15920.009-A	20,742	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-HF2-51469.001-A	101,338	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	NASS-2A21-21576555	9,738	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16684.004-A	9,195	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16169.001-A (NASS- ...	6,106	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-KA0321	39,373	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-1	294	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-KA1020	41,247	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-1-1123	44,028	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-Y0524	23,050	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-L0624	2,525	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-A0624	20,047	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-V0824	8,808	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-L0924	9,921	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-V0924	8,808	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-HF-E1124	82,682	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-AR-E1024	50,246	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-A1024	45,044	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-V0125	8,810	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-AR-L0125	61,771	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-CH0224	47,283	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16273	5,743	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15646	44,970	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-AR-166	18,489	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-14885.001-A	9,119	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16300.005-A	93	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16318.007-A	71,032	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-15866.002-A	17,648	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16317.002	9,080	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16187.017-A	8,683	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16317.011-A	45,753	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	HST-GO-16187.005	14,944	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ATAC	C0051644	28,000	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ATAC	C0053510	6,724	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	BANIL PHOTONICS, INC.	A22-2530	56,271	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	BROWN UNIVERSITY	1997	8	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY	14418	254	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S470965	1,325,719	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S442555	124,296	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S432218	25,161	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	SUB 20192971	29	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	CFD RESEARCH CORPORATION	9446/0000000197	10,132	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	DARTMOUTH COLLEGE	R1510	5,000	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	FREEDOM PHOTONICS LLC	S717901	41,714	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	HENNINGSON, DURHAM & RICHARDSON, INC.	HDR MSA 1000300000780	144,286	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	IMAGING NANOSYSTEMS, INC.	30077665	34,769	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1606278	631	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1643548	8,608	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1655725	25,046	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1659506	42,101	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	0054-021-90	25,478	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1580267/004	265,392	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1584220	(5,364)	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1587173/002	8,964	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1590158/002	(459)	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1591277/002	347,943	8,018
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1596092/006	126,808	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1599801/002	127,334	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1603071/001	26,251	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1607035/002	49,222	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1608189	37,743	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1617725	137,875	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1629802	148,351	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1629903	23	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1629909	76,051	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1630970	(2,917)	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1633148	119,713	20,985
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1633687	74,297	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1638198	92,867	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1639120	16,129	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1647094	194,784	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1649182	2,968	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1649356	74,420	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1650297	126,971	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1650617	41,642	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1650841	3,839	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1651254	44,702	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1651653	113,071	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1655497/002	49,008	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1655527	30,317	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1655580	85,862	

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43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1656708	17,009	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1658235	110,777	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1658425	39,511	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1658427	51,450	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1658730	97,466	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1658775	35,501	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1660880	178,171	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1662648	43,284	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	20110125	16,340	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1628771	(1,622)	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1674304	8,798	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1562208	2,696	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1641977	64,632	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1665530	167,801	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1666078	82,663	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1671278	7,399	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1675189	24,999	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1665525	35,097	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1658485	49,508	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1620716	82,837	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1666014	12,813	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1667469	16,523	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1668090	141,240	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1673906	17,435	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1663546	19,967	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1674868	37,514	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	975268	2,352,110	683,756
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	118127.4	17,692	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	151384.1	(6)	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	LEONARDO DRS, INC.	SUB 69002159 (B0NSSC20K1671)	115,839	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	LOCKHEED MARTIN CORPORATION	4104670676	235,039	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	LUNA INNOVATIONS INCORPORATED	3879NA51TUCSB	32,838	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	MALIN SPACE SCIENCE SYSTEMS, INC.	12-0256	89,012	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	MIRIOS, INC.	A210360003	144,132	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	NEXUS PHOTONICS, LLC	80NSSC20C0034	58,881	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	OPTO-KNOWLEDGE SYSTEMS, INC.	NSSC21C0374	27,253	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	OREGON STATE UNIVERSITY	NS348A-B	18,727	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	PREDICTIVE SCIENCE INC.	91820	9,067	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	PRINCETON UNIVERSITY	SUB00000315	13,625	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	SA0000499	1,651	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	SMITHSONIAN INSTITUTE	SV1-11006	10,501	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	SMITHSONIAN INSTITUTE	SV1-81001	1,122,978	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	SMITHSONIAN INSTITUTE	SV3-83019	61,282	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	SOLUTE INC.	0545-20-02	183,000	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	M99015KJ	171,622	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	J99010M0:14	126,486	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	SPACE HAZARDS APPLICATIONS LLC	80NNSC19K0238-01	21,186	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	SPACE TANGO, INC.	SUB 30055717(B0JSC017D0019)	292,206	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	ULTRA-LOW LOSS TECHNOLOGIES, INC.	SB210245	177,929	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITIES SPACE RESEARCH ASSOCIATION	SUB 08600-012(NNA16BD14C)	(376)	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITIES SPACE RESEARCH ASSOCIATION	NNA17BF53C	32,367	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITIES SPACE RESEARCH ASSOCIATION	080027	74,928	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF ARIZONA	569113	91,826	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1000013136	2,019,242	9,381
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1556355	25,785	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1559104	11,902	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1546525	177,681	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	0000073256	19,076	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1558824	13,851	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	098942-17872	(4)	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF IOWA	1002081198	2,203,592	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF IOWA	1002082693	751,236	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00011436:1	84,264	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00011437:1	162,250	
43.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A005821705:10	(44)	
44.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF HOMELAND SECURITY (DHS)	70RSAT18CB0000015	(401)	
45.024	PROMOTION OF THE ARTS GRANTS TO ORGANIZATIONS AND INDIVIDUALS		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		313,911	
45.129	PROMOTION OF THE HUMANITIES-FEDERAL/STATE PARTNERSHIP		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		(150)	
45.129	PROMOTION OF THE HUMANITIES-FEDERAL/STATE PARTNERSHIP		PASS-THROUGH	CALIFORNIA HUMANITIES	Sub HFAQ19-166 (SO-253167-17)	3,410	
45.129	PROMOTION OF THE HUMANITIES-FEDERAL/STATE PARTNERSHIP		PASS-THROUGH	CALIFORNIA HUMANITIES	BLA-470	(709)	
45.129	PROMOTION OF THE HUMANITIES-FEDERAL/STATE PARTNERSHIP		PASS-THROUGH	CALIFORNIA HUMANITIES	HFAP20-87	(363)	
45.149	PROMOTION OF THE HUMANITIES DIVISION OF PRESERVATION AND ACCESS		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		394,966	
45.149	PROMOTION OF THE HUMANITIES DIVISION OF PRESERVATION AND ACCESS		PASS-THROUGH	SOCIETY OF ARCHITECTURAL HISTORIANS (NFP)	011940	8,256	
45.160	PROMOTION OF THE HUMANITIES FELLOWSHIPS AND STIPENDS		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		334,980	
45.161	PROMOTION OF THE HUMANITIES RESEARCH		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		70,075	1,493
45.161	PROMOTION OF THE HUMANITIES RESEARCH		PASS-THROUGH	UNIVERSITY OF HOUSTON	R220000036	2,952	
45.162	LEARNING RESOURCES AND CURRICULUM DEVELOPMENT		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		91,370	
45.164	PROMOTION OF THE HUMANITIES PUBLIC PROGRAMS		PASS-THROUGH	SOCIAL SCIENCE RESEARCH COUNCIL	UCR-22060608	3,127	
45.169	PROMOTION OF THE HUMANITIES OFFICE OF DIGITAL HUMANITIES		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		60,848	
45.301	MUSEUMS FOR AMERICA		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		157,261	
45.301	MUSEUMS FOR AMERICA		PASS-THROUGH	UNIVERSITY OF KANSAS / UNIVERSITY OF KANSAS CENTER FOR RESEA	FY2022	4,340	
45.312	NATIONAL LEADERSHIP GRANTS		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		463,430	
45.312	NATIONAL LEADERSHIP GRANTS		PASS-THROUGH	TEXAS AFTER VIOLENCE PROJECT	20214254	43,934	
45.313	LAURA BUSH 21ST CENTURY LIBRARIAN PROGRAM		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	30047824	31,939	

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45.RD	FEDERAL CONTRACTS		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)	1892184-38-C-21	232,267	
45.RD	FEDERAL CONTRACTS		PASS-THROUGH	SOCIETY OF ARCHITECTURAL HISTORIANS (NFP)	SUB02-NEH	23,768	
47.040	MATERIALS RESEARCH PROJECT SUPPORT		DIRECT	NATIONAL SCIENCE FOUNDATION		7,217	
47.041	COVID-19 - ENGINEERING	COVID-19	DIRECT	NATIONAL SCIENCE FOUNDATION		1,537,797	
47.041	ENGINEERING		DIRECT	NATIONAL SCIENCE FOUNDATION		71,017,588	3,792,715
47.041	ENGINEERING		PASS THROUGH	GENERAL ENGINEERING & RESEARCH, LLC	Sub 30035504 (2035074)	207	
47.041	ENGINEERING		PASS-THROUGH	ADVANCED PAVING TECHNOLOGIES, INC.	A19-1	45,681	
47.041	ENGINEERING		PASS-THROUGH	AMERICAN POLITICAL SCIENCE ASSOCIATION	20205059	11,149	
47.041	ENGINEERING		PASS-THROUGH	AMERICAN POLITICAL SCIENCE ASSOCIATION	20205111	10,597	
47.041	ENGINEERING		PASS-THROUGH	AMERICAN SOCIETY FOR ENGINEERING EDUCATION	769-2075	54,717	
47.041	ENGINEERING		PASS-THROUGH	AMERICAN SOCIETY FOR ENGINEERING EDUCATION	769205	168,077	
47.041	ENGINEERING		PASS-THROUGH	ARIZONA STATE UNIVERSITY	15-742	976,589	65,000
47.041	ENGINEERING		PASS-THROUGH	BAYLOR UNIVERSITY	77938-023	15,860	
47.041	ENGINEERING		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON	77991-015	21,002	
47.041	ENGINEERING		PASS-THROUGH	AUXILIAR	77991-000	5,675	
47.041	ENGINEERING		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON	77991-000	5,675	
47.041	ENGINEERING		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	S19-0001	36,224	
47.041	ENGINEERING		PASS-THROUGH	CALYX, INC.	042894	155,161	
47.041	ENGINEERING		PASS-THROUGH	CARNEGIE MELLON UNIVERSITY	1122905451159	15,343	
47.041	ENGINEERING		PASS-THROUGH	CARTILAGE, INC.	77007-015	7,885	
47.041	ENGINEERING		PASS-THROUGH	CARTILAGE, INC.	77007-000	2,050	
47.041	ENGINEERING		PASS-THROUGH	EMBR LABS INC.	20161719	207,182	
47.041	ENGINEERING		PASS-THROUGH	FYR DIAGNOSTICS, LLC	20091124	55,285	
47.041	ENGINEERING		PASS-THROUGH	GENERAL ENGINEERING & RESEARCH, LLC	Sub 30035504 (2035074)	103,720	
47.041	ENGINEERING		PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	RG382-G1	15,362	
47.041	ENGINEERING		PASS-THROUGH	HARVEY MUDD COLLEGE	1718-510049-01	22,043	
47.041	ENGINEERING		PASS-THROUGH	IOWA STATE UNIVERSITY	024472A	50,385	
47.041	ENGINEERING		PASS-THROUGH	KENT STATE UNIVERSITY	402091-UCLA	534	
47.041	ENGINEERING		PASS-THROUGH	KNOX MEDICAL DIAGNOSTICS INC	A130875	117,403	
47.041	ENGINEERING		PASS-THROUGH	MICHIGAN STATE UNIVERSITY	SUB RC111316A (2027113)	44,753	
47.041	ENGINEERING		PASS-THROUGH	MOKA BLOX LLC	A22-3233	58,254	
47.041	ENGINEERING		PASS-THROUGH	NEW YORK UNIVERSITY	F1449-03	76,694	
47.041	ENGINEERING		PASS-THROUGH	NORTHEASTERN UNIVERSITY	512051-78050(20154884)	12,952	
47.041	ENGINEERING		PASS-THROUGH	PHASE DIAGNOSTICS, INC.	20170815	2,548	
47.041	ENGINEERING		PASS-THROUGH	PURDUE UNIVERSITY	SUB 10000719-081 (EEC-1227110)	2,496,915	
47.041	ENGINEERING		PASS-THROUGH	RESERVOIR LABS, INC.	W81EWFO3172108	48,482	
47.041	ENGINEERING		PASS-THROUGH	ST. JUDE CHILDREN'S RESEARCH HOSPITAL	120153010-7934918	182,363	
47.041	ENGINEERING		PASS-THROUGH	STANFORD UNIVERSITY	28139880-50542-C	351,903	
47.041	ENGINEERING		PASS-THROUGH	STANFORD UNIVERSITY	282500	15,000	
47.041	ENGINEERING		PASS-THROUGH	STORK TECHNOLOGIES, INC.	A21-0661	3,044	
47.041	ENGINEERING		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	M18013701	1,097,661	
47.041	ENGINEERING		PASS-THROUGH	THE AMERICAN UNIVERSITY	31663-A220027-S	60,954	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS	R1245230	9,967	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF ARIZONA	SUB 413309 (CMMI-1662816)	(21,419)	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF ARIZONA	SUB 454513(EFMA-1640860)	9,173	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF ILLINOIS CHICAGO	17350	70,637	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	087442-16581	85,880	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	011677	28,609	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A008985704	471,488	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF NEVADA, RENO	UNR-21-13	208,457	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	203435UCB	35,636	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	580247	696,828	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	570440	641	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	579913	53,115	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF SOUTH CAROLINA	21-4324	29,953	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF SOUTH CAROLINA	214364	28,658	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	96586107:1	97,413	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	SUB UT420-000980 (CMMI- 202...	38,288	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA12-000944	318,870	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA15-000860-4	(5,000)	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA20-000978	19,144	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF TEXAS AT EL PASO	2261010	47,078	
47.041	ENGINEERING		PASS-THROUGH	UNIVERSITY OF TEXAS-EL PASO	226100986G	32,137	
47.041	ENGINEERING		PASS-THROUGH	VENA VITALS, INC.	VENA-77629	17,470	
47.041	ENGINEERING		PASS-THROUGH	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	480090-19803	43,493	
47.047	SCIENTIFIC RESEARCH PROJECT SUPPORT		PASS-THROUGH	UNIVERSITY OF WASHINGTON	744909	(80)	
47.049	Covid-19 - MATHEMATICAL AND PHYSICAL SCIENCES	COVID-19	DIRECT	NATIONAL SCIENCE FOUNDATION		73,376	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		776	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		DIRECT	NATIONAL SCIENCE FOUNDATION		1,968,509	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		DIRECT	NATIONAL SCIENCE FOUNDATION		126,802,192	6,082,935
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS THROUGH	DUKE UNIVERSITY	333-2771(2116298)	10,570	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS THROUGH	PRINCETON UNIVERSITY	Sub 000182PHY-1624356	137,618	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	ASSOCIATED UNIVERSITIES, INC.	SOSPA7-016	1,622	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	ASSOCIATED UNIVERSITIES, INC.	Sub 373333 (1519126)	21,491	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	ASSOCIATED UNIVERSITIES, INC.	Sub SOSPA7-018 (1519126)	24,371	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	ASSOCIATED UNIVERSITIES, INC.	SOSPA6-024	16,263	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	ASSOCIATED UNIVERSITIES, INC.	20213795	14,640	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	ASSOCIATED UNIVERSITIES, INC.	77945-023	28,539	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	A17-0909-003	92,816	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	N56981C	277,736	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY INC.	N0003633C	29,855	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	BARNARD COLLEGE	A19-0334-001	17,176	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	BAYLOR UNIVERSITY	SUB 30240114-1 (1740203)	1,769	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	BAYLOR UNIVERSITY	77936-023	41,886	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	BRANDEIS UNIVERSITY	GR404040	44,383	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY	14888	82,895	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY	A18-0926-002	(75,122)	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY	A19-0370-001	18,614	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S488853	1,533,183	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	A17-0921-001	(5,957)	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S49053	237,666	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, NORTHridge	A20-0009-5001	235,112	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CARNEGIE MELLON UNIVERSITY	1123478437116	20,344	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CITY UNIVERSITY OF NEW YORK	CM00001662-00-CYC1	39,600	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	COLUMBIA UNIVERSITY	31(GG016228)	214,591	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	COLUMBIA UNIVERSITY	32(GG016228)	177,943	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CORNELL UNIVERSITY	75548-108203	338,759	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CORNELL UNIVERSITY	78877-108621	(300)	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CORNELL UNIVERSITY	79433-20660	373,926	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CORNELL UNIVERSITY	79433-20670	45,505	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	CORNELL UNIVERSITY	PHY-1946735	10,033	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	DUKE UNIVERSITY	333-271(2116298)	209,444	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	DUKE UNIVERSITY	3332455	214,106	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	DUKE UNIVERSITY	3332553	164,387	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	EMORY UNIVERSITY	A025454	134,157	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	EMORY UNIVERSITY	A025589:1	427,166	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	AWD-000181-G2	456	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	INDIANA UNIVERSITY	8054-UCLA	25,737	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	JACKSON STATE UNIVERSITY	G33215-USCB	46,390	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	JET PROPULSION LABORATORY	1671044	43,965	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2005291	86,958	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Sub S5129 - PO 529457 (PHY-...	56,327	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	PRINCETON UNIVERSITY	Sub 000182(PHY-1624356)	798,679	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	RENAISSANCE COMPUTING INSTITUTE	Sub S115825 (CNS-1935966)	31,538	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	RICE UNIVERSITY	R3451	14,521	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	SOUTHERN METHODIST UNIVERSITY	G001942-7500	199,121	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	STANFORD UNIVERSITY	61941275-134448	89,983	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	76749/1136652/2	190,725	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	THE SMITHSONIAN ASTROPHYSICAL OBSERVATORY	SVO-09009	32,714	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	THE SMITHSONIAN ASTROPHYSICAL OBSERVATORY	A20-0805-001	19,653	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF ARIZONA	466912	9,090	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF CHICAGO	SUBAWARD AWD100312 (SUB0000...)	5,267	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1554565	1,095,169	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1554568	137,389	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1561245	25,327	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1554564:5	1,141,789	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1556927	28,462	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A004088504	345	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A008060103	125,947	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A007231601	42,803	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A008060114	22,485	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	203643UC	136,423	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	SUB 203615UCSD (1918692)	29,712	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	052108UCB	147,872	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	203949UCLA	189,291	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF ROCHESTER	417874-G	263,556	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF ROCHESTER	2020249	110,966	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF ROCHESTER	SUB000000245	29,282	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF TEXAS AT EL PASO	226100993A	51,733	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF UTAH	10052943-UC	63,658	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11424	93,612	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC9674:3	(80)	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000294	181,323	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	776K193	28,012	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	SUB 408K133 (PHY-1148698)	(189)	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	010364	(188)	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	011972	265,395	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	838K073	55,112	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	VIRGINIA COMMONWEALTH UNIVERSITY	VU/NF SA001	7,943	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	1907435	51,271	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	480717	41,044	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	W. M. KECK FOUNDATION	15436	135,711	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	YALE UNIVERSITY	GR110081 (CON-80002459)	48,276	
47.049	MATHEMATICAL AND PHYSICAL SCIENCES		PASS-THROUGH	YALE UNIVERSITY	CON800003176	101,109	
47.050	COVID-19 - GEOSCIENCES	COVID-19	DIRECT	NATIONAL SCIENCE FOUNDATION		2,843,247	228,969
47.050	COVID-19 - GEOSCIENCES	COVID-19	PASS-THROUGH	UNIVERSITY OF NEW MEXICO	133660-873Q	18,461	
47.050	GEOSCIENCES		DIRECT	NATIONAL SCIENCE FOUNDATION		90,164,655	4,196,217
47.050	GEOSCIENCES		DIRECT	UC LAWRENCE BERKELEY LABORATORY		51,011	
47.050	GEOSCIENCES		PASS THROUGH	INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY	08-USCD-SAGE	867	
47.050	GEOSCIENCES		PASS THROUGH	INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY	SU-19-1001-08-USCD, TASK OR...	629,903	
47.050	GEOSCIENCES		PASS THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	2011048 (SUB OCE-1946578)	500	
47.050	GEOSCIENCES		PASS THROUGH	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A101436	223,282	
47.050	GEOSCIENCES		PASS THROUGH	AMERICAN POLITICAL SCIENCE ASSOCIATION	20211231	4,830	
47.050	GEOSCIENCES		PASS THROUGH	CARNEGIE INSTITUTION OF WASHINGTON	02-11021-1306(2152686)	19,568	
47.050	GEOSCIENCES		PASS THROUGH	CARNEGIE INSTITUTION OF WASHINGTON	02-11024-1307(2150829)	477	
47.050	GEOSCIENCES		PASS THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	20211964	30,000	
47.050	GEOSCIENCES		PASS THROUGH	COLORADO SCHOOL OF MINES	401609-5801	172,860	
47.050	GEOSCIENCES		PASS THROUGH	COLUMBIA UNIVERSITY	2(GG009393)	37,180	
47.050	GEOSCIENCES		PASS THROUGH	COLUMBIA UNIVERSITY	3(GG015488)	167,850	
47.050	GEOSCIENCES		PASS THROUGH	COLUMBIA UNIVERSITY	A17-0484-006	5,241	
47.050	GEOSCIENCES		PASS THROUGH	COLUMBIA UNIVERSITY	A20-0020-001	142,678	
47.050	GEOSCIENCES		PASS THROUGH	COLUMBIA UNIVERSITY	A20-0878-001	10,709	
47.050	GEOSCIENCES		PASS THROUGH	COLUMBIA UNIVERSITY	A16-0326-007	9,210	
47.050	GEOSCIENCES		PASS THROUGH	COLUMBIA UNIVERSITY	GG009393	30,000	
47.050	GEOSCIENCES		PASS THROUGH	COLUMBIA UNIVERSITY	13HGG00939304	29,983	
47.050	GEOSCIENCES		PASS THROUGH	CONFLUENCY LLC	SUB 20201753	6,048	
47.050	GEOSCIENCES		PASS THROUGH	CORNELL UNIVERSITY	A17-0542-001	1,913	
47.050	GEOSCIENCES		PASS THROUGH	DUKE UNIVERSITY	SUB 333-2419 (1721611)	(35)	
47.050	GEOSCIENCES		PASS THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	AWD0028	5,810	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
47.050	GEOSCIENCES		PASS-THROUGH	HAMPTON UNIVERSITY	A19-0659-001	43,558	
47.050	GEOSCIENCES		PASS-THROUGH	INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY	08-UCSD-SAGE	115,068	
47.050	GEOSCIENCES		PASS-THROUGH	INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY	09-UCSD (MD)-SAGE	164,203	
47.050	GEOSCIENCES		PASS-THROUGH	INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY	SU-19-1001-08-UCSD, TASK OR...	3,041,624	
47.050	GEOSCIENCES		PASS-THROUGH	INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY	SU-19-1001-08-UCSD, TASK ORDER	2,408	
47.050	GEOSCIENCES		PASS-THROUGH	MICHIGAN STATE UNIVERSITY	MICH-2480A	82,659	
47.050	GEOSCIENCES		PASS-THROUGH	MIDDLEBURY COLLEGE	530272	49,226	
47.050	GEOSCIENCES		PASS-THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	2011048 (SUB OCE-1946578)	635,951	
47.050	GEOSCIENCES		PASS-THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	PO-2110540 sub OCE-2110258	130,173	
47.050	GEOSCIENCES		PASS-THROUGH	NEW JERSEY INSTITUTE OF TECHNOLOGY	052203	59,244	
47.050	GEOSCIENCES		PASS-THROUGH	NEW YORK UNIVERSITY	F0691-04	58,311	
47.050	GEOSCIENCES		PASS-THROUGH	OREGON STATE UNIVERSITY	011258	7,816	
47.050	GEOSCIENCES		PASS-THROUGH	PORTLAND STATE UNIVERSITY	100077-2	(237)	
47.050	GEOSCIENCES		PASS-THROUGH	PRINCETON UNIVERSITY	SUB0000008	(46,358)	
47.050	GEOSCIENCES		PASS-THROUGH	PURDUE UNIVERSITY	Y20-5279	6,237	
47.050	GEOSCIENCES		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	0696	88	
47.050	GEOSCIENCES		PASS-THROUGH	SAN JOSE STATE UNIVERSITY RESEARCH FOUNDATION	A18-0010-001	2,957	
47.050	GEOSCIENCES		PASS-THROUGH	STANFORD UNIVERSITY	6244556	153,107	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	SUB SUBAWD003230 (1755088)	4,861	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	P2020780	2,505	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	SERVICE003330	25,343	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	UCAR-77622	70,838	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF ALASKA SYSTEM	A18-0011-002	133,464	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF ALASKA SYSTEM	UA 21-0021	12,146	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD0100221 (SUB00000066)	344,741	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF CHICAGO	1852617	171,667	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF HAWAII - WEST OAHU	MA 1389	47,513	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF HAWAII AT MANOA	MA 1392	41,169	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF MIAMI	SPC-000190	40,558	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF MIAMI	S15-49	3,902	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF NEW MEXICO	A17-0628-003	338,366	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	91261301	12,262	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	91269673	28,255	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	011785	1,616	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	011900	(23)	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	100670135:1	(1,135)	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	118062755	5,945	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	A17-0917-005	30,714	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	9127	10,001	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	91270521	56,218	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC13148	94,226	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY SYSTEM OF MARYLAND	86308-23459201	92,275	
47.050	GEOSCIENCES		PASS-THROUGH	UNIVERSITY SYSTEM OF MARYLAND	SA07523110P086057	362	
47.050	GEOSCIENCES		PASS-THROUGH	WESTED	S00017 1222	76,306	
47.050	GEOSCIENCES		PASS-THROUGH	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A101436	1,345,689	
47.050	GEOSCIENCES		PASS-THROUGH	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A101512	373,749	
47.050	GEOSCIENCES		PASS-THROUGH	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A101527	53,993	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	DIRECT	NATIONAL SCIENCE FOUNDATION			87,097,105	3,647,346
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS THROUGH	CORPORATION FOR EDUCATION NETWORK INITIATIVES IN CALIFORNIA	SUB C45-489 (2029306)		27,389	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	BRIGHAM YOUNG UNIVERSITY	21-0565		59,956	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COLORADO SCHOOL OF MINES	402052 5811		2,259	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	CIF2020-UCB-23		119,546	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	CIF2020-UCB-40		102,712	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	SUB CIF2020-UCSD-27 (2030859)		126,071	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	SUB CIF2020-UCSD-56 (2030859)		128,387	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	1940460		160,890	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	CIF2020-UCI-31		10,244	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	CIF2020-UCLA-15		62,558	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	CIF2020-UCLA-38		119,611	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	2030859		94,136	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	2021CIF TERESA		96,525	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	2021CIF SERGEY		83,271	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	2021CIF UCD		60,497	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	2021CIF-UCLA-21		98,131	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	77636		102,431	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	CORNELL UNIVERSITY	76221-10547		246,650	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	CORPORATION FOR EDUCATION NETWORK INITIATIVES IN CALIFORNIA	SUB C45-489 (2029306)		60,694	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	PASS-THROUGH	DIGITAL PROMISE	1844-M0723		44,118	

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47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	E4THEFUTURE, INC.	202110SUSAN	(10,358)	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	EMORY UNIVERSITY	Sub A200548 (1822378)	197	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	HARVARD UNIVERSITY	124095	8,568	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	IMMEROG LLC	A220120	34,043	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	INDIANA UNIVERSITY	SUB BL4812537UCSD (OAC-1840034	104,694	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	INTERNET2	SUB 1048-B (2100003)	57,917	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	Sub 2005245152 (2129051)	18,450	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2005281944	6,366	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	KANSAS STATE UNIVERSITY	A21-0144-5001	89,229	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	MICHIGAN STATE UNIVERSITY	SUB RC1089111UCSD (OAC-1835144)	27,341	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	MOLECULAR SCIENCES INSTITUTE, INC., THE	Fellowship 479590-19A28 (AC...	41,657	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	NORTHEASTERN UNIVERSITY	50286478050	163,546	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	NORTHWESTERN UNIVERSITY	SUB 60054740 UCSD (OAC-193598	108,688	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	NORTHWESTERN UNIVERSITY	010367	99,166	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	NORTHWESTERN UNIVERSITY	NU-77959	29,287	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	OHIO STATE UNIVERSITY	60068496	25,988	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	OHIO STATE UNIVERSITY	Sub SPC-1000005612 / GR1248...	73,421	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	OHIO STATE UNIVERSITY	100000560	71,793	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	OHIO STATE UNIVERSITY	OSU-77986	20,385	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	PAWR, LLC	PAWR-77940	312,751	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	Sub S000267-NSF (CNS-1805310)	74,139	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	PRINCETON UNIVERSITY	SUB 0000269(OCA-1836650)	374,060	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	PRINCETON UNIVERSITY	SUB0000268	183,124	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	PRINCETON UNIVERSITY	A19-0420-001	272,131	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	PURDUE UNIVERSITY	10000686-018	80,569	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	PURDUE UNIVERSITY	SUB 10000686-019 (CCF-0939370)	30,337	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	PURDUE UNIVERSITY	SUB 10001171-19(OAC-1724728)	9,856	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	RICE UNIVERSITY	R3G606	(418)	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	SAGEFOX CONSULTING GROUP, LLC	2039175-03-20	5,528	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	M1903347	42,431	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF CINCINNATI	012486-002	57,305	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF CINCINNATI	012486	7,730	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF CINCINNATI	012486-00004/00	7,730	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF CINCINNATI	P22-21 012	7,730	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY22.1121.001 2104003(OAC21...	33,789	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	SUB 083842-16110(ACI-1548562)	3,049,723	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	SUB 094096-17249 (1764055)	90,499	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	SUB 100253-18221 (2005572)	42,042	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	06784618553 1222	50,000	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	Sub 21-015236-A (CCF- 193...	76,818	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF MEMPHIS	1640813	30	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF MEMPHIS	20163902:2	18,891	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF MEMPHIS	A21-0011-5001	91,341	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF MICHIGAN	3004636405	59,301	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF MINNESOTA	SUB A008754803 (OAC-2037773)	254,287	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF MISSOURI	SUB C00058703-1 (730655)	4	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF MISSOURI	010810	239,497	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5105700	58,918	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE	UNC 20180834	75,842	

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47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	203986UCR	62,690	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF OREGON	201450A	107,341	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	SUB 567562 (1513671 AMENDME...	43,758	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	2106-1251-00-A:3	(5)	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF TEXAS AT ARLINGTON	2019GC0653	60,605	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA18-001252	73,570	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	1854828	46,832	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	G0625	172,175	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF UTAH	10061946-UCSD-01(2138811)	73,509	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GA11276.PO #2141108	3,848	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GA11421.PO#2197128	106,150	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF WASHINGTON	Sub UWSC13245 (OAC-2117997)	53,102	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11871	73,072	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC12166	60,418	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC9942:1	6,993	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	SUB 0000001037 (2030508 - OAC)	586,026	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	203405439	99,740	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	VANDERBILT UNIVERSITY	UNIV59060:2	5,502	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	VANDERBILT UNIVERSITY	UNIV624	80,680	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	VIRGINIA COMMONWEALTH UNIVERSITY	SUB FP00011535_SA001 (2011...	22,315	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	479589-19910	46,768	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	479590-19326	32,481	
47.070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING		PASS-THROUGH	WAYNE STATE UNIVERSITY	WSU20079	52,600	
47.070	COVID-19 - COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	COVID-19	DIRECT	NATIONAL SCIENCE FOUNDATION		460,016	1,750
47.070	OFFICE OF CYBERINFRASTRUCTURE		DIRECT	NATIONAL SCIENCE FOUNDATION		2,117,216	1,579,337
47.074	BIOLOGICAL SCIENCES		DIRECT	NATIONAL SCIENCE FOUNDATION		338,237	
47.074	BIOLOGICAL SCIENCES		DIRECT	NATIONAL SCIENCE FOUNDATION		59,093,389	5,165,569
47.074	BIOLOGICAL SCIENCES		PASS THROUGH	BROWN UNIVERSITY	Sub 00001351 (DBI-1707352)	15,033	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	ARIZONA STATE UNIVERSITY	00000561	790	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	BROWN UNIVERSITY	Sub 00001351 (DBI-1707352)	227,453	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	BUCKNELL UNIVERSITY	GR295987	18,848	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S456833	126,317	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	1926023	9,406	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	CARY INSTITUTE OF ECOSYSTEM STUDIES	DEB-1855277	10,436	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	CENTRAL MICHIGAN UNIVERSITY	F63362	980	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	CHAPMAN UNIVERSITY	500486	19,744	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	CHAPMAN UNIVERSITY	500427Sub02	29,355	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	COLD SPRING HARBOR LABORATORY	SUB 52720112 / 52720212 / P...	(1,212)	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	COLUMBIA UNIVERSITY	GG01631801	52,552	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG016) NEIL	15,874	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	CORNELL UNIVERSITY	1822330	141,811	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	DONALD DANFORTH PLANT SCIENCE CENTER	23704-C	3,852	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	EMORY UNIVERSITY	1844803	30,165	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	EMORY UNIVERSITY	A234191	4,794	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	AWD-002525-G1(2100858)	75,730	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	HARVARD UNIVERSITY	111269-5110907	438	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	HARVARD UNIVERSITY	A19-0392-001	58,638	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	IOWA STATE UNIVERSITY	ISU4204045	(67)	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	J. CRAIG VENTER INSTITUTE	JCVI-19-005	7,253	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	J. CRAIG VENTER INSTITUTE	JCVI-21-009 (NSF IOS-2103715)	213,405	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	KANSAS STATE UNIVERSITY	A00-0490-5001-A01	157,686	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	A21-0292-001	82,400	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	NEW MEXICO STATE UNIVERSITY	Q02282	10,494	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	NORTHERN ARIZONA UNIVERSITY	1004895	2,769	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	OHIO STATE UNIVERSITY	60078892	105,839	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	011905	58,534	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	PERCEUS, INC.	A135677	1,370	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	RICE UNIVERSITY	SUB R3G401 (MCB-1616755)	(1,213)	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	0913	169,299	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	SUB 0912 (DBI-1832184)	1,692,730	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	A20-0700-001	120,476	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	1898	118,800	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	SUB 09193-02 SA00 5A647A 78...	11,638	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	SIERRA NEVADA RESEARCH INSTITUTE	34822SB53351	2,340	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	STANFORD UNIVERSITY	62553754-140293	8,054	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	TENNESSEE STATE UNIVERSITY	TSU-05555411	97,505	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	TUFTS UNIVERSITY	A19-0780-001	4,015	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS	R109233	198,379	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS	6230	75,058	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF ARIZONA	357961	(3)	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF ARIZONA	531848	43,226	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1556974	50,180	

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**For the Fiscal Year Ended June 30, 2022
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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	012024	15,292	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1556857	74,806	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF GEORGIA	RR167-627/S000815	2,277	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF GEORGIA	SUB0000PATINA	4,094	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF IDAHO	CB2960	45,781	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00011276	65,410	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF MINNESOTA	1934384	93,118	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A009292801	16,500	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF NEBRASKA	A18-0889-001	12,240	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5111339	186,005	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5111338	80,620	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	SUB 203467UCSD (DEB-1840223)	13,324	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF OREGON	1758947	12,310	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF OREGON	2013VA0	19,777	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD0000	139,757	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	PITT-59811	67,905	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF PUERTO RICO	2019-005	56,202	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF PUGET SOUND	271038	6,137	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF TENNESSEE	9500073623	18,343	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	SUB UTA20-000890 (2014862)	237,981	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11362	127,580	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WASHINGTON	1748843	8,519	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000179	61,094	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WYOMING	1002790A	(203)	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	UNIVERSITY OF WYOMING	1547796	89,363	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	A20-0115-001	15,207	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	009658	21,330	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	WELLESLEY COLLEGE	SA26539	115,293	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	WILLIAMS COLLEGE	WMNSNF2100163_2021	80,287	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	WILLIAMS COLLEGE	2100163	142,161	
47.074	BIOLOGICAL SCIENCES		PASS-THROUGH	YALE UNIVERSITY	GR110066 (CON-80002444)	133,041	
47.074	COVID-19 - BIOLOGICAL SCIENCES	COVID-19	DIRECT	NATIONAL SCIENCE FOUNDATION		887,007	124,918
47.075	Covid-19 - SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	COVID-19	DIRECT	NATIONAL SCIENCE FOUNDATION		475,986	81,378
47.075	Covid-19 - SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	COVID-19	PASS-THROUGH	STANFORD UNIVERSITY	62434614-186889	3,195	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		DIRECT	NATIONAL SCIENCE FOUNDATION		15,261,277	1,296,663
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	BOSTON UNIVERSITY	4500003335	71,971	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	CLARK UNIVERSITY	2A325-7533	3,147	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	CORNELL UNIVERSITY	1823489	57,025	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	DARTMOUTH COLLEGE	R1560	69,291	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	GEORGIA STATE UNIVERSITY	SP00014301-01	34,955	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	GEORGIA STATE UNIVERSITY	1949003	26,148	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	HASKINS LABORATORIES, INC	1-A215	900	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	INDIANA UNIVERSITY BLOOMINGTON	9187	9,970	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	B552015924	5,857	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	PORTLAND STATE UNIVERSITY	100104	28,564	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	PRINCETON UNIVERSITY	SUB0000373	(361)	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	PRINCETON UNIVERSITY	SUB0000SEAN	41,482	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	STANFORD UNIVERSITY	61343100-122890	1,989	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	STATE UNIVERSITY OF NEW YORK	550-1142143-79134	31,989	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	SYRACUSE UNIVERSITY	30914-05434-S02	7,820	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	009285	58,345	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	M1902444	19,998	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	S-001320	(2,019)	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	THE UNIVERSITY OF MAINE	UMS1302	14,688	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS	R123	25,626	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD067826	29,897	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD102337	31,719	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	19-010844B00	8,998	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00015253	225,425	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A00585801	3,265	
47.075	SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES		PASS-THROUGH	UNIVERSITY OF NEVADA, RENO	UNR2117	57,015	
47.076	COVID-19 - EDUCATION AND HUMAN RESOURCES	COVID-19	DIRECT	NATIONAL SCIENCE FOUNDATION		30,876	
47.076	EDUCATION AND HUMAN RESOURCES		DIRECT	NATIONAL SCIENCE FOUNDATION		72,993,158	2,205,790
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	9 DOTS COMMUNITY LEARNING CENTER	DOTS 59129	(69)	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	AMERICAN EDUCATIONAL RESEARCH ASSOCIATION	AERA-5569253	23,689	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	AMERICAN EDUCATIONAL RESEARCH ASSOCIATION	20215296	11,264	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	BOSTON UNIVERSITY	4500003453	33,130	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY SACRAMENTO/UNIVERSITY ENTERPRISE	532571A-CYC1	19,614	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, FRESNO	SC360490-19-01	34,775	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	CARLETON COLLEGE	SUB 1748-UCSD(1841992)	43,626	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	EDUCATION DEVELOPMENT CENTER, INC.	20210132	18,123	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	EXPLORATORIUM	050823	328,106	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	MUSEUM OF SCIENCE & INDUSTRY	CI-20010013	23,992	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	NATIONAL UNIVERSITY	2022-01-02-03-2019-2021	6,548	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	PASADENA AREA COMMUNITY COLLEGE DISTRICT	B220011	21,834	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	5510-UCI-NSF-4355	1,643	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	5864-UCI-NSF-1012	74,219	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	RIVERSIDE COMMUNITY COLLEGE DISTRICT	010725	19,289	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	RIVERSIDE COMMUNITY COLLEGE DISTRICT	C00006461-CYC1	6,417	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	RIVERSIDE UNIFIED SCHOOL DISTRICT	RUSD R0091319	95,926	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	SUB 1170 (DGE-1561687)	10,251	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	STANFORD UNIVERSITY	STANFORD-77633	17,204	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	TEACHERS COLLEGE, COLUMBIA UNIVERSITY	513155	36,434	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	00052859	17,634	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1559734	118,845	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	A21-0162-001	177,553	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	UNIVERSITY OF KANSAS / UNIVERSITY OF KANSAS CENTER FOR RESEA	FY2016056	2,967	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	PITT-77974	27,109	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	126168692	44,552	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	USC-72238	62,100	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	UNIVERSITY OF TEXAS RIO GRANDE VALLEY	2112650-03	14,762	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC10468	10,560	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	787K161	1,355	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	VANDERBILT UNIVERSITY	SUB UNIV61965 (1647196)	172,247	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	WESTED	S-00016448	28,031	
47.076	EDUCATION AND HUMAN RESOURCES		PASS-THROUGH	WESTED	S-00014572	41,060	
47.078	POLAR PROGRAMS		DIRECT	NATIONAL SCIENCE FOUNDATION		4,062,692	469,718
47.078	POLAR PROGRAMS		PASS-THROUGH	OREGON STATE UNIVERSITY	S2306L	14,082	
47.078	POLAR PROGRAMS		PASS-THROUGH	OREGON STATE UNIVERSITY	OSU-77742	16,343	
47.078	POLAR PROGRAMS		PASS-THROUGH	PRINCETON UNIVERSITY	SUB0000447	528,658	
47.078	POLAR PROGRAMS		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	A20-0745-001	(43,559)	
47.078	POLAR PROGRAMS		PASS-THROUGH	UNIVERSITY OF CHICAGO	SUB AWD100518 (SUB 00000152 (49,599	
47.079	COVID-19 - OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING	COVID-19	PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	286021 TSOH	(29,140)	
47.079	COVID-19 - OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING	COVID-19	PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	286021	86,409	
47.079	OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING		DIRECT	NATIONAL SCIENCE FOUNDATION		959,985	
47.079	OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING		PASS-THROUGH	CRDF GLOBAL	CRDF-E0613	4,102	
47.079	OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING		PASS-THROUGH	CRDF GLOBAL	G-202107-67968	14,971	3,509
47.079	OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING		PASS-THROUGH	CRDF GLOBAL	20-66886-1	4,228	
47.079	OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING		PASS-THROUGH	CRDF GLOBAL	G2021	19	
47.079	OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING		PASS-THROUGH	NEW MEXICO STATE UNIVERSITY	Sub Q02309 (2114718)	15,746	
47.079	OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF DELAWARE	SUB 51656(1844463)	281,903	
47.079	OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	CNVA00055445	107,441	
47.079	OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	Sub UTAUS-SUB00000082 (21...	26,997	
47.079	OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTAUS-SUB00000010	49,707	
47.079	OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING		PASS-THROUGH	VANDERBILT UNIVERSITY	UNIV5795	378,041	
47.083	COVID-19 - INTEGRATIVE ACTIVITIES	COVID-19	DIRECT	NATIONAL SCIENCE FOUNDATION		2,153,388	1,165,260
47.083	COVID-19 - INTEGRATIVE ACTIVITIES	COVID-19	PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	S5460	229,168	
47.083	COVID-19 - INTEGRATIVE ACTIVITIES	COVID-19	PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00013144	(25,607)	
47.083	INTEGRATIVE ACTIVITIES		DIRECT	NATIONAL SCIENCE FOUNDATION		6,387,375	1,396,495
47.083	INTEGRATIVE ACTIVITIES		PASS-THROUGH	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	2210163	34,043	
47.083	INTEGRATIVE ACTIVITIES		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	S000227-NSF	192,466	
47.083	INTEGRATIVE ACTIVITIES		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	M2200194	47,146	
47.083	INTEGRATIVE ACTIVITIES		PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD101485 (SUB00000335)	75,979	
47.083	INTEGRATIVE ACTIVITIES		PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD101485 (SUB00000347)	25,404	
47.083	INTEGRATIVE ACTIVITIES		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	2015-02361-01	27,147	
47.083	INTEGRATIVE ACTIVITIES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	A16-0468-008	142,485	
47.083	INTEGRATIVE ACTIVITIES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	02726	4,802	
47.083	INTEGRATIVE ACTIVITIES		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA20-000958	36,867	
47.083	INTEGRATIVE ACTIVITIES		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWCS131	99,908	
47.RD	FEDERAL CONTRACTS		DIRECT	NATIONAL SCIENCE FOUNDATION	ICER-2020205	16,937	
47.RD	FEDERAL CONTRACTS		DIRECT	NATIONAL SCIENCE FOUNDATION	OCE-2126562	89,587	
47.RD	FEDERAL CONTRACTS		DIRECT	NATIONAL SCIENCE FOUNDATION	2016193	185,578	
47.RD	FEDERAL CONTRACTS		DIRECT	NATIONAL SCIENCE FOUNDATION	2054347	81,004	
47.RD	FEDERAL CONTRACTS		DIRECT	NATIONAL SCIENCE FOUNDATION	2139417	103,145	
47.RD	FEDERAL CONTRACTS		DIRECT	NATIONAL SCIENCE FOUNDATION	2055260	156,429	
47.RD	FEDERAL CONTRACTS		DIRECT	NATIONAL SCIENCE FOUNDATION	2136847	225,146	
47.RD	FEDERAL CONTRACTS		DIRECT	NATIONAL SCIENCE FOUNDATION	1946482	93,427	
47.RD	FEDERAL CONTRACTS		DIRECT	NATIONAL SCIENCE FOUNDATION	NSF-21610	(549)	
47.RD	FEDERAL CONTRACTS		DIRECT	NATIONAL SCIENCE FOUNDATION	NSF 74D08	30,966	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	ATMOSPHERIC & SPACE TECHNOLOGY RESEARCH ASSOCIATES, LLC	20195051	(1,775)	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	BOISE STATE UNIVERSITY	PO138579	23,616	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA HUMANITIES	RP-3025	4,500	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	COMPUTING RESEARCH ASSOCIATION	2021CIF-UCSanDiego-52(2127309)	31,242	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	CORNELL UNIVERSITY	13828-20975	3,400	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	COUNCIL ON UNDERGRADUATE RESEARCH (THE)	22060600	4,000	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	PARAMITA THERAPEUTICS, INC.	Sub 3010145 (2112166)	35,147	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	SEVEN BIOSCIENCES, INC.	A20-3901	38,554	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MINNESOTA	011959	393,439	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTH CAROLINA	21-4303	(2)	

**University of California
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47.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTH CAROLINA	21-4348	29,410	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTH CAROLINA	22-4869	4,832	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	118063041	29,997	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF WISCONSIN SYSTEM	2005319	52,915	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	WOODS HOLE OCEANOGRAPHIC INSTITUTION	A101519	58,171	
47.RD	FEDERAL CONTRACTS		PASS-THROUGH	WOODWELL CLIMATE RESEARCH CENTER, INC.	WHRC-S114-01	49,183	
59.037	SMALL BUSINESS DEVELOPMENT CENTERS		PASS-THROUGH	CALIFORNIA STATE POLYTECHNIC UNIVERSITY, HUMBOLDT	SBDC 2021	76,569	
59.037	SMALL BUSINESS DEVELOPMENT CENTERS		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIAR	SBAHQ21B0043	68,157	
59.037	SMALL BUSINESS DEVELOPMENT CENTERS		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIAR	S-7789-UCI	69,079	
60.RD	FEDERAL CONTRACTS		PASS-THROUGH	SMITHSONIAN INSTITUTE	17-SUBC-440-0000372141	7,594	
64.054	RESEARCH AND DEVELOPMENT		DIRECT	DEPARTMENT OF VETERANS ADMINISTRATION		15,211	
64.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF VETERANS ADMINISTRATION	A5395	69,591	
64.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF VETERANS ADMINISTRATION	VA268-16-C-0017	585,494	
64.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF VETERANS ADMINISTRATION	36C24E21	565,523	
66.001	AIR POLLUTION CONTROL PROGRAM SUPPORT		PASS-THROUGH	AIR RESOURCES BOARD	011736	60,227	16,000
66.001	AIR POLLUTION CONTROL PROGRAM SUPPORT		PASS-THROUGH	EASTERN RESEARCH GROUP, INC.	MSEI-001/1	104,058	
66.130	GULF COAST ECOSYSTEM RESTORATION COUNCIL COMPREHENSIVE PLAN COMPONENT		DIRECT	ENVIRONMENTAL PROTECTION AGENCY (EPA)		9,819	
66.454	WATER QUALITY MANAGEMENT PLANNING		PASS-THROUGH	STATE WATER RESOURCES CONTROL BOARD	19-012-110	118,066	
66.456	NATIONAL ESTUARY PROGRAM		PASS-THROUGH	ASSOCIATION OF BAY AREA GOVERNMENTS	SFEP-24923	27,040	
66.460	NONPOINT SOURCE IMPLEMENTATION GRANTS		PASS-THROUGH	ASSOCIATION OF BAY AREA GOVERNMENTS	23331-2020	35,713	
66.509	COVID-19 - SCIENCE TO ACHIEVE RESULTS (STAR) RESEARCH PROGRAM	COVID-19	DIRECT	ENVIRONMENTAL PROTECTION AGENCY (EPA)		9,816	
66.509	SCIENCE TO ACHIEVE RESULTS (STAR) RESEARCH PROGRAM		DIRECT	ENVIRONMENTAL PROTECTION AGENCY (EPA)		1,003,842	151,665
66.509	SCIENCE TO ACHIEVE RESULTS (STAR) RESEARCH PROGRAM		PASS-THROUGH	CARNEGIE MELLON UNIVERSITY	1080358-438985	8,174	
66.509	SCIENCE TO ACHIEVE RESULTS (STAR) RESEARCH PROGRAM		PASS-THROUGH	CARNEGIE MELLON UNIVERSITY	CMU 1080358-442010	848	
66.509	SCIENCE TO ACHIEVE RESULTS (STAR) RESEARCH PROGRAM		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC10117:1	(518)	
66.511	COVID-19 - OFFICE OF RESEARCH AND DEVELOPMENT CONSOLIDATED RESEARCH/TRAINING/FELLOWSHIPS	COVID-19	PASS-THROUGH	HEALTH EFFECTS INSTITUTE	4964-RFA17-3/18-6	84,341	
66.511	OFFICE OF RESEARCH AND DEVELOPMENT CONSOLIDATED RESEARCH/TRAINING/FELLOWSHIPS		PASS-THROUGH	MCGILL UNIVERSITY	4976RF S0721	5,285	
66.511	OFFICE OF RESEARCH AND DEVELOPMENT CONSOLIDATED RESEARCH/TRAINING/FELLOWSHIPS		PASS-THROUGH	THE WATER RESEARCH FOUNDATION	5136	13,689	
66.516	P3 AWARD: NATIONAL STUDENT DESIGN COMPETITION FOR SUSTAINABILITY		DIRECT	ENVIRONMENTAL PROTECTION AGENCY (EPA)		99,929	
66.605	PERFORMANCE PARTNERSHIP GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION	20-C0021	147,170	
66.605	PERFORMANCE PARTNERSHIP GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION	21-C0035	912	
66.611	ENVIRONMENTAL POLICY AND INNOVATION GRANTS		DIRECT	ENVIRONMENTAL PROTECTION AGENCY (EPA)		46,158	2,969
66.708	POLLUTION PREVENTION GRANTS PROGRAM		DIRECT	ENVIRONMENTAL PROTECTION AGENCY (EPA)		163,403	
66.808	SOLID WASTE MANAGEMENT ASSISTANCE GRANTS		DIRECT	ENVIRONMENTAL PROTECTION AGENCY (EPA)		61,130	
66.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	DIRECT	ENVIRONMENTAL PROTECTION AGENCY (EPA)	A21269JASON	(10)	
66.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	HEALTH EFFECTS INSTITUTE	4979-RFA20-1B	25,290	
66.RD	FEDERAL CONTRACTS		DIRECT	ENVIRONMENTAL PROTECTION AGENCY (EPA)	68HERC19C0004	2,813	
66.RD	FEDERAL CONTRACTS		DIRECT	ENVIRONMENTAL PROTECTION AGENCY (EPA)	A21-2694-002	25,029	
66.RD	FEDERAL CONTRACTS		PASS-THROUGH	EASTERN RESEARCH GROUP, INC.	011884	967	
66.RD	FEDERAL CONTRACTS		PASS-THROUGH	NEVADA DIVISION OF ENVIRONMENTAL PROTECTION	DPS 20-068	9,269	
66.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTH AMERICAN DEVELOPMENT BANK	TA20-002/NADBC20-030	(8)	
66.RD	FEDERAL CONTRACTS		PASS-THROUGH	RESOURCES FOR THE FUTURE, INC.	052805	31,059	
66.RD	FEDERAL CONTRACTS		PASS-THROUGH	RTI INTERNATIONAL	11312	6,010	
77.008	U.S. NUCLEAR REGULATORY COMMISSION SCHOLARSHIP AND FELLOWSHIP PROGRAM		DIRECT	NUCLEAR REGULATORY COMMISSION		180,168	
77.RD	FEDERAL CONTRACTS		PASS-THROUGH	SOUTHWEST RESEARCH INSTITUTE	N99021BB	62,668	
81.036	COVID-19 - INVENTIONS AND INNOVATIONS	COVID-19	PASS-THROUGH	UT-BATTELLE, LLC	4000159454	349,606	
81.036	INVENTIONS AND INNOVATIONS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	683360	70,637	
81.041	STATE ENERGY PROGRAM		PASS-THROUGH	WEST BIOFUELS LLC	SUB 20190948 (DE-EE0008510)	1,619	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		DIRECT	DEPARTMENT OF ENERGY (DOE)		86,431,829	6,621,879
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		DIRECT	UC LAWRENCE BERKELEY LABORATORY		344,281	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS THROUGH	GENERAL ENGINEERING & RESEARCH, LLC	SUB 20173615 (DE-SC0015932)	267	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS THROUGH	UNIVERSITY OF WASHINGTON	SUB UWSCI0739(DE-SC0019288)	9,653	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	ACCUSTRATA, INC.	5576353	16,465	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	ADAMAS NANOTECHNOLOGIES	052875ASHOK A0223	13,647	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	ADVANCED RESEARCH CORPORATION	A21-1103	53,124	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	ALGENESIS CORPORATION	SUB 30025299 (DE-SC0019986)	118,945	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	ARGONNE NATIONAL LABORATORY	1FF60431CHMM	46,461	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	ARGONNE NATIONAL LABORATORY	9F60156	58,540	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	ARIZONA STATE UNIVERSITY	012064	427,826	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	ARIZONA STATE UNIVERSITY	ASUB000MICHAEL	(22,641)	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	AUTOMAT SOLUTIONS, INC.	UCR-22010107	67,419	

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81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	BAYLOR UNIVERSITY	012034	61,335	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	BRANDEIS UNIVERSITY	GR404240	103,524	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	BRIDGE12 TECHNOLOGIES INC.	A19-1070	5,489	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	BRIDGE12 TECHNOLOGIES INC.	A20-1150	65,583	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	198731:12	30,789	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	233044:7	158,009	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	A00-1382-021	72	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CACTUS MATERIALS, INC.	A20-0661-001	1,897	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CACTUS MATERIALS, INC.	A20-0813-001	194	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CACTUS MATERIALS, INC.	020572	115,671	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	SUB S390826 (DE-SC0016469)	(3,659)	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	SUB S450724 (DE-SC0020373)	144,048	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	SUB S495155 (DE-SC0021266)	145,566	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	Sub S532207 (DE-SC0022089)	16,912	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	68J-1090279-CYC11	46	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	\$495187	135,293	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	\$470241	76,798	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	\$534321	78,894	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CAPESYM INC.	00ANTON	25,439	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CARNEGIE INSTITUTION OF WASHINGTON	6-10931-01	33,621	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	COLUMBIA UNIVERSITY	SUB 1(GG008714) (DE-SC0018218)	(6,079)	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	CORNELL UNIVERSITY	86832-11130	73,482	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	DARTMOUTH COLLEGE	R1573	225,333	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	FERMI NATIONAL ACCELERATOR LABORATORY	Sub 657041 (DE-AC02-07CH11359)	299,131	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	FERMI NATIONAL ACCELERATOR LABORATORY	Sub 685800 (DE-AC02-07CH11359)	23,159	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	6852859 (DE-AC02-07CH11359)	18,440	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	PO 613885	83,721	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	FREEDOM PHOTONICS LLC	A20-3255	40,882	6,480
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	GENERAL ATOMICS	SUB 4500060525(DE-FC02-04ER546	55	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	GENERAL ATOMICS	SUB 4500071386 (DE-SC0018108)	181,488	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	GENERAL ATOMICS	SUB 4500088861(DE-FC02-04ER...	106,299	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	GENERAL ATOMICS	4500059085	60,296	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	GENERAL ENGINEERING & RESEARCH, LLC	SUB 20173615 (DE-SC0015932)	132,769	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	AWD-102524-G1	12,159	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	GLOBAL ALGAE INNOVATIONS	SUB 20195147 (DE-SC0018781)	88,952	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	HARVARD UNIVERSITY	130298-5106298:01	185,047	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	INCOM, INC.	048524	21,000	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	IOWA STATE UNIVERSITY	401-21-37D:2	7,283	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	J. CRAIG VENTER INSTITUTE	SUB JCVI-17-014 (DE-SC0018344)	57,187	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	Sub 2004033307 (DE-SC0019388)	46,137	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	DE-SC0020314	90,181	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LASER PRISMATICS, LLC	047443	13,826	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B628449	90,196	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B637111	16,135	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B641992	1,875	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SUB B640113 (B623353)	85,589	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	A19-0694-001	43,759	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	A20-0556-001	1,190	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	A20-0719-001	67,637	

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81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	A20-0769-001	83,476	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	A21-0670-001	164,110	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B649056	48,676	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	LBNL 7590711	65,842	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B649912	3,397	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LIFE-E, LLC	A19-1171	81,390	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LOS ALAMOS NATIONAL SECURITY, LLC	520116	553,188	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	S4686 - PO	234,364	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	MESA PHOTONICS, LLC	20221695	1,171	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	MONTANA STATE UNIVERSITY	DE-SC0021369	182,160	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	NALU SCIENTIFIC LLC	A210795	29,956	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	SUB 1856102	(1,305)	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	A21-0407-001	173,557	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	A16-0441-004	(1,003)	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	NHANCED SEMICONDUCTORS	A20-3268	151,154	33,036
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60051564UCB	57,080	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60057508BERK	170,002	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	NORTHWESTERN UNIVERSITY	SUB 60057508 UCSD (DE-SC002...	211,728	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	NORTHWESTERN UNIVERSITY	Sub 60060511 UCSD (DE-SC002...	41,002	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60054427 UCI	110,221	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	NORTHWESTERN UNIVERSITY	6006072UCB	102,125	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	OCEANIT LABORATORIES, INC.	21080927	49,968	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	OPTELLIGENT, LLC	A20-3254	330,217	45,306
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	503235	167,547	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	PRINCETON UNIVERSITY	SUB00000544	181,894	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	Q-CHEM, INC.	QCHEM-72492	8,345	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	QUANTUM ADVANCED DETECTION LLC	052212	30,718	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	QUANTUM ADVANCED DETECTION LLC	QUANTUM-72311	32,201	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	STANFORD UNIVERSITY	61961563-136555	918,126	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	STANFORD UNIVERSITY	62720787-230174	24,633	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	STANFORD UNIVERSITY	189332	277	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	STATE UNIVERSITY OF NEW YORK	SUB 68799(DESC0012583)	(42)	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	TAKA SOLAR CORPORATION	A22-2501	60,000	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	THE UNIVERSITY OF ALABAMA	000517656-SC002:03	185,325	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UCHICAGO ARGONNE, LLC	1F60180	21,206	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	ULTRAMET	18640	53,415	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITIES RESEARCH ASSOCIATION INC.	PO#603654	(10,738)	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	1765	47,808	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF DELAWARE	51428	159,068	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF IDAHO	SH5849-772894	9,226	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	090634-16915	246,532	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF IOWA	S00456-01	147,876	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF MIAMI	SPC-000615:1	40,789	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00011112	143,789	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00015006(DE-NA0004030)	42,394	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF MICHIGAN	3004764256	29,197	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF MICHIGAN	UM-77744	16,926	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A003127005	(181)	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A007230203	104,501	

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81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A007660701	235,086	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A004527503	193,684	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF NEBRASKA-LINCOLN	Sub 25-0521-0220-002 (DE-SC001	(41)	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	578218	123,254	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	143749629	32,996	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	131471842-L	23,670	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF TENNESSEE SYSTEM	UT-82D39	11,379	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	SUB UTA18-001255(DE-SC0019100)	(1,071)	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA18-001379	733,790	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF UTAH	10051975	41,809	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF UTAH	DE-SC0019285	148,637	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF WASHINGTON	SUB UWSCL0739(DE-SC0019288)	230,064	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000368	380,974	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	UT-BATTTELLE, LLC	4000154999:10	131,953	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	429438	57,361	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	006723	143,943	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	WAYNE STATE UNIVERSITY	WSU22052(DE-SC0022134)	42,073	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	WAYNE STATE UNIVERSITY	WSU-77740	39,191	
81.057	UNIVERSITY COAL RESEARCH		DIRECT	DEPARTMENT OF ENERGY (DOE)		132,472	
81.086	CONSERVATION RESEARCH AND DEVELOPMENT		DIRECT	DEPARTMENT OF ENERGY (DOE)		4,347,545	1,245,618
81.086	CONSERVATION RESEARCH AND DEVELOPMENT		PASS-THROUGH	CALSTART	012221	69,227	
81.086	CONSERVATION RESEARCH AND DEVELOPMENT		PASS-THROUGH	CENTER FOR ENERGY AND ENVIRONMENT	A19-1934	101,346	
81.086	CONSERVATION RESEARCH AND DEVELOPMENT		PASS-THROUGH	CUMMINS, INC	050528	142,966	
81.086	CONSERVATION RESEARCH AND DEVELOPMENT		PASS-THROUGH	NOBLE THERMODYNAMIC SYSTEMS INC.	050419	22,215	
81.086	CONSERVATION RESEARCH AND DEVELOPMENT		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	C202102	15,054	
81.086	CONSERVATION RESEARCH AND DEVELOPMENT		PASS-THROUGH	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	SUB 82192/1148574/2(DE-SC00192	53,631	
81.086	CONSERVATION RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC12247	43,278	
81.086	COVID-19 - CONSERVATION RESEARCH AND DEVELOPMENT	COVID-19	DIRECT	UC LAWRENCE BERKELEY LABORATORY		57,630	
81.087	COVID-19 - RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	COVID-19	PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	325257	893,086	
81.087	COVID-19 - RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	COVID-19	PASS-THROUGH	UNIVERSITY OF OKLAHOMA	2020-43	329	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		DIRECT	DEPARTMENT OF ENERGY (DOE)		21,276,630	9,090,770
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	CALWAVE POWER TECHNOLOGIES, INC.	043841	(2)	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	COLORADO STATE UNIVERSITY	DE-EE00008923	134,844	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	CORNELL UNIVERSITY	SUB 81344-10987 (DE-EE0007978)	(7,427)	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	CZERO, LLC	SB200247	80,571	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	DUKE UNIVERSITY	A19-0484-001	6,611	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	EL CAMINO COLLEGE	047307	47,895	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	ELECTRIC POWER RESEARCH INSTITUTE	011440	52,265	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	INVIZYNE TECHNOLOGIES, INC.	2020-01UCLA	178,543	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B639114	97,732	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B644456	2,721	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B646346	193,517	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SE-B647	54,026	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B650817	61,483	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	NATEL ENERGY, INC.	EE0008777	76,915	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	NEW MEXICO CONSORTIUM, INC.	Sub 671-004 (DE-EE0008902)	184,167	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	SUNSPEC ALLIANCE	SUB PO #1004 (DE-EE0008759)	51,581	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	TERABASE ENERGY, INC.	051661	145,609	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	TUFTS UNIVERSITY	Sub 104040-00001 (DE-EE0009...	26,236	

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81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	TUFTS UNIVERSITY	U104040	1,358	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF CENTRAL FLORIDA	DE-EE0008746	121,469	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF DELAWARE	59514	110,678	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	VISOLIS, INC.	A20-1599	99,356	
81.087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	WORCESTER POLYTECHNIC INSTITUTE	011481	127,828	
81.089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT		DIRECT	DEPARTMENT OF ENERGY (DOE)		1,724,363	210,240
81.089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	GE GLOBAL RESEARCH	401147782	174,184	
81.089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	GE GLOBAL RESEARCH	4011627	105,874	
81.089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	009513	277	
81.089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	TDA RESEARCH, INC.	DE-FE0031926	40,782	
81.089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	TDA RESEARCH, INC.	GA.2201.009.UCI.19.02	40,507	
81.089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	TDA RESEARCH, INC.	TDA-77844	39,030	
81.089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	TDA RESEARCH, INC.	TDA-78154	5,000	
81.089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF KANSAS / UNIVERSITY OF KANSAS CENTER FOR RESEA	FY2020-035	385,999	
81.089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	119684338	136,959	
81.089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	877K855	72,447	
81.108	EPIDEMIOLOGY AND OTHER HEALTH STUDIES FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B633616	20,473	
81.112	STEWARSHIP SCIENCE GRANT PROGRAM		DIRECT	DEPARTMENT OF ENERGY (DOE)		2,091,174	214,186
81.112	STEWARSHIP SCIENCE GRANT PROGRAM		PASS-THROUGH	CORNELL UNIVERSITY	SUB 83228-10970 (DE-NA0003764)	182,467	
81.112	STEWARSHIP SCIENCE GRANT PROGRAM		PASS-THROUGH	GENERAL ATOMICS	Sub 4500083835(DE-NA0003939)	50,849	
81.112	STEWARSHIP SCIENCE GRANT PROGRAM		PASS-THROUGH	HARVARD UNIVERSITY	DE-NA0003904	65,219	
81.112	STEWARSHIP SCIENCE GRANT PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B620838	(145)	
81.112	STEWARSHIP SCIENCE GRANT PROGRAM		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	M1803474	948,116	
81.113	DEFENSE NUCLEAR NONPROLIFERATION RESEARCH		DIRECT	DEPARTMENT OF ENERGY (DOE)		4,541,120	2,012,897
81.113	DEFENSE NUCLEAR NONPROLIFERATION RESEARCH		PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	AWD000372-G14	21,351	
81.113	DEFENSE NUCLEAR NONPROLIFERATION RESEARCH		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	SUB 507174	183,863	
81.113	DEFENSE NUCLEAR NONPROLIFERATION RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	048167	68,372	
81.113	DEFENSE NUCLEAR NONPROLIFERATION RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00010006	119,569	
81.117	ENERGY EFFICIENCY AND RENEWABLE ENERGY INFORMATION DISSEMINATION, OUTREACH, TRAINING AND TECHNICAL ANALYSIS/ASSISTANCE		DIRECT	DEPARTMENT OF ENERGY (DOE)		26,507	
81.117	ENERGY EFFICIENCY AND RENEWABLE ENERGY INFORMATION DISSEMINATION, OUTREACH, TRAINING AND TECHNICAL ANALYSIS/ASSISTANCE		DIRECT	UC LAWRENCE BERKELEY LABORATORY		268,202	
81.117	ENERGY EFFICIENCY AND RENEWABLE ENERGY INFORMATION DISSEMINATION, OUTREACH, TRAINING AND TECHNICAL ANALYSIS/ASSISTANCE		PASS-THROUGH	TANDEM PV, INC.	30117756	48,261	
81.119	STATE ENERGY PROGRAM SPECIAL PROJECTS		PASS-THROUGH	CARNEGIE MELLON UNIVERSITY	SUB 1070261-436503 (DE-SC00...	105,465	
81.119	STATE ENERGY PROGRAM SPECIAL PROJECTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	DE-AC02-07CH	15,864	
81.119	STATE ENERGY PROGRAM SPECIAL PROJECTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	FERMI 8BD90	3,094	
81.119	STATE ENERGY PROGRAM SPECIAL PROJECTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	Subaward 556805 (DE-AC05-76...	11,429	
81.119	STATE ENERGY PROGRAM SPECIAL PROJECTS		PASS-THROUGH	STANFORD UNIVERSITY	SUB 204069 (DE-AC02-76SF00515)	71,554	
81.121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION		DIRECT	DEPARTMENT OF ENERGY (DOE)		1,737,184	202,118
81.121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION		PASS-THROUGH	GEORGIA TECH RESEARCH CORPORATION	AWD002	25,918	
81.121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	S5190	164,120	
81.121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	2019-2349-02	142,334	
81.121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	2020-2006-01	34,193	
81.121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	28-M1800913	2,194	
81.121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION		PASS-THROUGH	UNIVERSITY OF TENNESSEE	A21-0478-5002	29,421	
81.121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION		PASS-THROUGH	UNIVERSITY OF TENNESSEE	010336	5,208	
81.121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	776K775	(10)	
81.121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000001824	25,687	
81.121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000001771	32,104	
81.121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION		PASS-THROUGH	VIRGINIA COMMONWEALTH UNIVERSITY	FP00014	32,584	
81.122	ELECTRICITY RESEARCH, DEVELOPMENT AND ANALYSIS		DIRECT	DEPARTMENT OF ENERGY (DOE)		425,845	57,160
81.123	NATIONAL NUCLEAR SECURITY ADMINISTRATION (INNSA) MINORITY SERVING INSTITUTIONS (MSI) PROGRAM		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	A17-0695-009	14,525	

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81.123	NATIONAL NUCLEAR SECURITY ADMINISTRATION (NNSA) MINORITY SERVING INSTITUTIONS (MSI) PROGRAM		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	A17-0696-004	14,393	
81.123	NATIONAL NUCLEAR SECURITY ADMINISTRATION (NNSA) MINORITY SERVING INSTITUTIONS (MSI) PROGRAM		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	A17-0699-009	752,154	
81.123	NATIONAL NUCLEAR SECURITY ADMINISTRATION (NNSA) MINORITY SERVING INSTITUTIONS (MSI) PROGRAM		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	A17-0700-009	66	
81.123	NATIONAL NUCLEAR SECURITY ADMINISTRATION (NNSA) MINORITY SERVING INSTITUTIONS (MSI) PROGRAM		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	323523	79,989	
81.123	NATIONAL NUCLEAR SECURITY ADMINISTRATION (NNSA) MINORITY SERVING INSTITUTIONS (MSI) PROGRAM		PASS-THROUGH	Florida Agriculture and Mechanical University	DE-NA0003866	5,388	
81.123	NATIONAL NUCLEAR SECURITY ADMINISTRATION (NNSA) MINORITY SERVING INSTITUTIONS (MSI) PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B648547	5,944	
81.123	NATIONAL NUCLEAR SECURITY ADMINISTRATION (NNSA) MINORITY SERVING INSTITUTIONS (MSI) PROGRAM		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	Sub B647713 (B623353)	210,303	
81.123	NATIONAL NUCLEAR SECURITY ADMINISTRATION (NNSA) MINORITY SERVING INSTITUTIONS (MSI) PROGRAM		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	CW22761	40,589	
81.123	NATIONAL NUCLEAR SECURITY ADMINISTRATION (NNSA) MINORITY SERVING INSTITUTIONS (MSI) PROGRAM		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	Sub 18266 (351438)	202,279	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		DIRECT	DEPARTMENT OF ENERGY (DOE)		15,300,840	4,657,064
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	77727-022	79,811	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	77727-000	35,212	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	CARNEGIE MELLON UNIVERSITY	DE-AR0001127	138,295	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	GAS TECHNOLOGY INST	S492	5,973	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	GE GLOBAL RESEARCH	401157062	131,652	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	HP INC.	GSD004813856	515,297	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	INFINEON TECHNOLOGIES NORTH AMERICA CORPORATION	20202379	79,992	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	INVIZYNE TECHNOLOGIES, INC.	2021-01UCLA	119,760	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB2004667924(DE-AR0001191)	81,735	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	LEHIGH UNIVERSITY	Sub 543891-78002(DE-AR0001073)	123,716	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	A15-0012-010	(2,972)	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	NORTHWESTERN UNIVERSITY	NU-77969	92,248	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	OCEAN ERA, LLC	SUB 1037-003 (DE-AR0001037)	121,247	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	PING THINGS, INC.	DE-AR0001104-UCB1	219,904	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	PRINCETON UNIVERSITY	SUB0000441	135,376	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	SEQUOIA SCIENTIFIC, INC.	DE-AR0001232	75,598	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	SRI INTERNATIONAL	PO61757	48,390	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	STANDFORD UNIVERSITY	62291108-137893	106,155	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1557736	98,588	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	SUB 80152- Z7064203	179,215	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00009722	95,200	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00010994	64,876	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	UNIVERSITY OF MISSOURI	C00069059-1	70,401	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	183405383	136,568	
81.135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		PASS-THROUGH	ZYMOCHEM, INC.	A22-0750	98,376	
81.135	COVID-19 - ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	COVID-19	PASS-THROUGH	IONIC MATERIALS, INC.	5563738	10,585	
81.135	COVID-19 - ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	COVID-19	PASS-THROUGH	MARINE BIOLOGICAL LABORATORIES	54334	94,081	
81.135	COVID-19 - ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	COVID-19	PASS-THROUGH	OCEAN ERA, LLC	1037-001	196,243	
81.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	380680	51,130	
81.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	672122	64,476	
81.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B628440	110,247	
81.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B639667	100,557	
81.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B641620	147,978	
81.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B644595	92,190	
81.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2208092	172,464	
81.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	556736	31,045	
81.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	520117	48,102	
81.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	UCHICAGO ARGONNE, LLC	7F-30219	(261)	
81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	98230ALAN	123,104	
81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	7315221:02	198,769	

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81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	7388280	183,640	
81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	7399542	333,414	
81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	7410958:02	(394)	
81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	7522012	47,829	
81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	7533302:01	52,149	
81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	7536269	2,431	
81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	755026	100,543	
81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	DE-EE0008881	(74,398)	
81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	7550026	240,128	54,404
81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	7550365	(312)	
81.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	7599275	66,377	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7434501	(754)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7446371	180,202	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	A21-3184	221,016	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	LBNL-7268	19,479	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	LBNL-7339	15,073	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7397717	167,338	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7398467	340,919	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7497998	(1,184)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	DE-AC02-05CH11231	417,882	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	LBNL-7351	53,024	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	LBNL-7531	18,958	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7531922	318,772	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7099793	(1)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7202212	23,658	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7238104	118,449	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7266072	10,675	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7266240	55,230	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7277291	587	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7306814	714	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7307391	17,559	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7307580	6,565	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7307471	7,607	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	306856	2,948	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7309154	2,573	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7309277	130,500	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7309633	10,163	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7318272	(2)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7320509	9,296	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7320455	14,283	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7321416	192	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7320514	20,000	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7320508	920	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7325326	13,780	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7331912	29,994	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7333664	26,809	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7333018	46,028	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7340464	(27,035)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7341168	43,460	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7328881	16,225	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7370840	28,324	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7371137	154	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7370706	1,333	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7375998	7,879	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7375862	332	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7383175	7,693	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7382626	117,654	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7400776	(7,395)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7405880	23,786	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7408000	50,094	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7388466	10,667	11,000
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7413745	72,709	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7423445	2,413	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7428321	43,165	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7432125	40,768	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7432862	20,406	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7351011	47,410	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7423415	1,802	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7426154	10,220	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7428037	58,234	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7438716	61,161	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7443472	18,011	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7443081	156,898	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7420083	3,631	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7444601	46,033	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7442422	28,991	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7446630	(1,527)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7446868	13,111	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7448086	20,336	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7443113	(9,998)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7452088	14,183	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7446512	212,224	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7453998	39,677	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7448092	7,205	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7451221	126,276	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7416674	2,447	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7468111	7,277	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7465733	69,492	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7460026	142,183	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7477268	3,200	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7477879	34,277	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7480097	37,412	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7480639	17,983	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7483748	21,263	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7483717	(4,018)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7474271	270,786	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7488762	4,958	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7487651	30,514	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7488063	34,766	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7488938	50,479	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7495486	281,869	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7501285	(237)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7494615	34,303	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7508359	140,056	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7510743	35,459	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7500685	327,733	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7495418	(132)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7515300	1,183,646	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7513877	44,943	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7517238	430	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7482952	21,812	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7521356	(17,634)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7523151	29,652	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7527462	(488)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7517258	18,411	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7509646	80,677	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7529681	26,089	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7530190	14,969	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7531513	5,242	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7531613	58,574	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7532337	12,343	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7532069	21,908	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7532201	177,107	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7531158	36,670	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7530015	6,980	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7533900	67,625	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7536757	(148)	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7533991	33,791	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7535674	61,939	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7537381	325,892	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7545547	201,753	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7544871	207,413	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7544882	19,556	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7550317	66,683	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7543739	45,832	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7550638	79,586	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7548459	7,108	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7543031	67,568	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7549094	34,953	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7543273	60,415	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7553298	4,631	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7545864	31,278	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7552140	22,687	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7552200	10,860	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7559988	10,923	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7560626	32,528	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7560477	22,491	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7557909	56,960	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7558489	60,413	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7558798	75,735	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7543093	199,306	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7552020	56,054	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7559988	161,886	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7561280	10,860	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7565179	96,108	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7565403	32,528	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7562607	227,865	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7562461	60,413	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7559989	74,368	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7561280	41,022	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7565179	119,813	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7565403	378,208	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7566551	394,403	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7562607	46,115	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7560239	7,735	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7556539	23,854	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7566842	117,022	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7560335	13,000	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7569627	5,160	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7562425	224,528	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7572255	10,786	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7567259	25,170	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7562496	780,212	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7569195	176,643	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7574925	166,805	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7578661	39,330	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7572193	59,120	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7580800	7,198	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7567253	11,765	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7580578	14,875	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7580447	88,613	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7584884	149,436	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7582366	39,346	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7541222	31,300	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7509697	74,913	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7500918	174,767	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	75440381	4,746	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7546453	95,436	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7575743	160,082	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7275521	204,395	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7535700	4,652	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7577037	11,531	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7581668	2,250	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7591023	45,000	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7584975	52,824	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7592125	24,448	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7585899	21,292	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7591790	14,992	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7592739	70,247	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY		11,752	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7585466	76,209	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7591532	91,023	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7592740	121,849	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	594257	243,416	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7592818	48,635	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7585993	179,358	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7587708	113,033	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7597856	58,534	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7591947	7,639	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7590826	21,259	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7594965	3,148	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7591675	243,429	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7588069	37,930	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7601256	11,959	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7601015	51,809	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7601150	77,396	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7601150	23,568	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7601150	17,388	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7601150	57,495	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7623590	21,053	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7588718	80,046	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7603608	18,896	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7602375	987	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7601305	39,855	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7600476	76,986	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7596652	12,087	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7608237	13,369	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7606842	42,511	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7606941	34,421	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7606367	37,520	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7606193	42,899	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7601970	13,419	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7606874	38,476	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7609546	50,814	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7605631	66,332	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7604779	11,330	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7609280	24,995	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7608523	34,373	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7603341	45,209	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7610632	60,348	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7609470	146,561	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7608524	16,292	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7607758	11,457	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7611922	26,639	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7590767	22,861	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7603886	9,998	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7611442	19,727	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7613397	10,934	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7606998	30,459	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7613261	17,983	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7618224	94,257	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7617036	4,280	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7603524	17,331	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7618452	2,162	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7612343	30,973	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7616473	952	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7622886	8,327	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7620785	3,700	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7623101	33,052	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7621570	17,737	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7624194	26,093	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7623760	21,076	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7619979	50,933	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7616830	30,258	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7620306	5,668	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7624022	17,659	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7625770	8,825	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7625051	22,277	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7626195	47,547	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	1600095	27,250	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7623726	548	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7608816	1,013	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7610390	10,941	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7626269	4,984	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7607866	27,937	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7606790	37,581	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7623938	23,384	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7629542	26,362	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7622013	18,410	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7629648	39,226	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7631837	16,144	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7623886	436	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7621601	8,594	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7627372	39,659	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7634604	6,083	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7628300	37,761	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7635894	278	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7636597	7,675	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7633690	38,676	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7632090	38,166	
81.RD	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	DE-AC02-05CH	28,238	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	ALLIANCE FOR SUSTAINABLE ENERGY, LLC	SUB-2021-10459	82,391	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	ALLIANCE FOR SUSTAINABLE ENERGY, LLC	Sub-2021-10604	54,650	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	ALLIANCE FOR SUSTAINABLE ENERGY, LLC	SUB2020DUNCAN	599	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	AMES LABORATORY	SC-20-533	277,875	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	AMES LABORATORY	SC-18-474	(10,992)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	AMES LABORATORY	SC-21-554	53,641	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	ARGONNE NATIONAL LABORATORY	Sub 0F-60226 (DE-AC02-06CH1...	145,052	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	ARGONNE NATIONAL LABORATORY	8F30225	69,746	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	ARGONNE NATIONAL LABORATORY	6F30603	35,755	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	ARGONNE NATIONAL LABORATORY	D-1F-6	1,343	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	ARGONNE NATIONAL LABORATORY	9F60234	61,212	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	ARGONNE NATIONAL LABORATORY	2F60013	221	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	ARGONNE NATIONAL LABORATORY	1F60520	129,717	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	ARGONNE NATIONAL LABORATORY	9F60030	219,779	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	BATTELLE ENERGY ALLIANCE, LLC	259121	24,874	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	BATTELLE ENERGY ALLIANCE, LLC	257892	41,771	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	BATTELLE ENERGY ALLIANCE, LLC	243865	19,585	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	39554	175,688	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	63913	288,991	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	366357	1,222	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	BNL(DOE) 391071	326,055	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	BROOKHAVEN SCIENCE ASSOCIATES, LLC	398046	5,040	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	COMPUTER SCIENCE TEACHERS ASSOCIATION, LLC	SUB 30023903 (U411C190048)	57,292	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	CZERO, LLC	SB200245	165,827	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI NATIONAL ACCELERATOR LABORATORY	FNAL 668292	4,252	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	677841	49,492	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	681847	7,916	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	DE-AC02-07CH11359	92,283	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	654315	414,911	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	654998	42,447	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	657932	376,814	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	659035	74,177	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	665477	3,503	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	666201	359,964	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	RAS-20220716	10,723	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	675356	13,802	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	677918	52,100	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	675498	127,069	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	FERMI 83D24	81,378	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FERMI RESEARCH ALLIANCE, LLC	ALLI 666323	1,468	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	FUEL CELL ENERGY INC.	F72018000152	20,930	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	GENERAL ATOMICS	4500093528	34,294	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	GENERAL ATOMICS	4500092815	37,847	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	HRL LABORATORIES, LLC	15026-2X3983-QS	(9,795)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	IDAHO NATIONAL LABORATORY	185993	(24,622)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	INFINEON TECHNOLOGIES NORTH AMERICA CORPORATION	049336	34,801	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	JEFFERSON SCIENCE ASSOCIATES, LLC	011527	102,774	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	JEFFERSON SCIENCE ASSOCIATES, LLC	21-D0505	143,948	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	KRELL INSTITUTE	A22-2659	18,828	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	8627680	(9,242)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B637267	35,522	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B638227	81,187	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B639175	28,141	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B639885	(45)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B640804	(1,190)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B642477	9,249	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B644089	92,659	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B644155	(1,329)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B644491	16,689	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B644776	69,620	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B645158	11,231	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B645428	85,548	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B649522	49,116	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	Sub B644729 (B623353)	71,280	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	Sub B648062 (B623353)	44,084	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	Sub B649607 (B623353)	66,575	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	Sub B649854 (B623353)	26,357	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	415680G	38,349	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B630009	(550)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B631991	49,909	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B634373	(9,131)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B634451	(6,148)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B635445	5,671	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B638620	59,432	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B639330	126,272	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B642550	10,872	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B642714	279,647	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B643014	42,171	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B645874	73,652	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B646530	81,123	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	DE-AC52-07NA27344	173,026	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B628096	54	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B650969	10,642	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B638421	10,419	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B632083	59,483	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B632718	66,940	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B645374	4,110	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B645174	84,184	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B634887	5,214	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B628415	66,940	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B637960	12,915	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B638425	25	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B639345	8,867	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B647215	40,024	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B647316	37,377	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B646926	14,134	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B648916	78,831	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B649810	152,238	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B652219	2,200	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B650110	2,692	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B652497	11,838	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SE-B643	17,061	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B645673	156,753	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SE-B646	105,732	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B646894	188,726	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SE-B649	84,751	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B649554	14,007	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B650240	14,134	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B647186	81,418	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B647917	75,002	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B649519	265,590	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B646449	49,921	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B646925	31,001	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B649777	80,203	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B650501	18,588	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B645185 PT2	127,488	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LEONARDO TECHNOLOGIES, INC.	FE0022594	73,988	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LOS ALAMOS NATIONAL SECURITY, LLC	487034	76,579	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LOS ALAMOS NATIONAL SECURITY, LLC	525705	80,042	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LOS ALAMOS NATIONAL SECURITY, LLC	591792	91,837	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LOS ALAMOS NATIONAL SECURITY, LLC	520355	(150)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LOS ALAMOS NATIONAL SECURITY, LLC	614699	335,952	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LOS ALAMOS NATIONAL SECURITY, LLC	351438	7,008	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	LOS ALAMOS NATIONAL SECURITY, LLC	DE-AC52-06NA25396	53,200	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	MICROELECTRONICS ADVANCED RESEARCH CORPORATION	226163 TASK ORDER NO. 247596	30,988	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	MISSION SUPPORT AND TEST SERVICES LLC	226163-TO# 268422	250	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	MISSION SUPPORT AND TEST SERVICES LLC	226163	60,429	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	MONDE WIRELESS INC.	MW202102	27,287	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	MRIGLOBAL	XGJ-9-92039-01	84,561	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	MRIGLOBAL	SUB202KAI	41,831	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2321018	108,005	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	1976904	40,814	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2105842	44,513	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2149060	132,197	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2212433	19,026	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2220901	64,680	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2230507	31,659	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2247616	24,489	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	Sub 2261855 (2169310)	22,373	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	Sub 2342454 (2169310)	131,253	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2086479:1	56,856	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2150283	46,737	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2182418	(20)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	1668054	(810)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2331054	40,207	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2176341	15,534	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2201993	38,487	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2225127	16,012	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2233815	159,369	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2231215	7,252	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	PO 2081583	62,106	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	PO 2347172 / 2169310	16,295	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2214879	19,759	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2249242	36,086	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2246600	97,815	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	313694	68,988	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2340053	30,768	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2221195	414,057	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	1770585	(3,037)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2169	18,011	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	232199	55,994	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	233404	39,215	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2309178	194,040	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	1655264 SEO	301,916	70,987
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	165526	23,170	

**University of California
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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	1655264 TERAN	4,363	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	OAK RIDGE ASSOCIATED UNIVERSITIES, INCORPORATED	SB190033	8,818	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	OCEAN RAINFOREST, INC.	OCN RNFST-59572	9,763	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	593715	29,366	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	595241	127,057	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	440551	43,616	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	551776	57,266	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	011284	90,333	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	012042	32,888	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	012046	37,732	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	490521	10,334	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	528678	258,575	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	545157	223,797	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	548460	34,858	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	500186	160,684	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	611623	66,933	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	512057	6,980	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	PNLB-PROJECT2.4B	53,090	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	5522	75,443	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	599863	28,514	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PACIFIC NORTHWEST NATIONAL LABORATORY	603466	44,779	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PALO ALTO RESEARCH CENTER	011935	13,951	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PRINCETON PLASMA PHYSICS LABORATORY	S210819	41,609	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PRINCETON PLASMA PHYSICS LABORATORY	S015719-C:3	42,299	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	PURDUE UNIVERSITY	14000447-019	7,828	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	RADIABEAM TECHNOLOGIES, LLC	1633131:001	52,872	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	RADIABEAM TECHNOLOGIES, LLC	20194565	89,229	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	RADIATION MONITORING DEVICES, INC.	049319	124,486	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	SLAC NATIONAL ACCELERATOR LABORATORY	196758	60,282	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	SLAC NATIONAL ACCELERATOR LABORATORY	208519	18,696	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	SLAC NATIONAL ACCELERATOR LABORATORY	207333	26,225	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	SLAC NATIONAL ACCELERATOR LABORATORY	187775	58,725	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	SLAC NATIONAL ACCELERATOR LABORATORY	202523	12,914	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	SLAC NATIONAL ACCELERATOR LABORATORY	2163	103,019	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	560581	59,888	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	383906	43,787	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	585367	23,571	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	606434	46,281	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	618302	73,633	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	530587	202,362	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	18-0307-000-5A	36,965	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	622476	176,864	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	622423	300,082	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRIAD NATIONAL SECURITY, LLC	610131	86,536	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UCHICAGO ARGONNE, LLC	011087	64,030	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UCHICAGO ARGONNE, LLC	011898	60,528	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UCHICAGO ARGONNE, LLC	011899	67,791	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UCHICAGO ARGONNE, LLC	CRB-SS5-S-15-004566	14,979	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF TEXAS AT SAN ANTONIO	DE-EE0009046	110,841	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF TEXAS AT SAN ANTONIO	1000003901	142,035	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	4000151688	5,916	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	4000187240	310,931	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	008531	57,719	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	009441	416,251	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	010137	130,469	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	010143	118,937	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	011164	145,310	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	012295	233,015	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	4000158675	44,508	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	4000164960	32,793	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	4000168298	85,859	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	4000171188	(1,612)	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	4000175188	3,074	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	4000178376	210,781	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	4000183688	188,027	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	4000186240	555,275	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	4000178120	6,771	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	DE-AC05-000R22725	120,020	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	DE-AC05-000R	59,276	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	4000186583	23,333	
81.RD	FEDERAL CONTRACTS		PASS-THROUGH	UT-BATTELLE, LLC	CW21849	35,216	
84.015	NATIONAL RESOURCE CENTERS PROGRAM FOR FOREIGN LANGUAGE AND AREA STUDIES OR PROGRAM AND FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP PROGRAM		DIRECT	DEPARTMENT OF EDUCATION (ED)		1,475,855	17,227
84.022	OVERSEAS PROGRAMS - DOCTORAL DISSERTATION RESEARCH ABROAD		DIRECT	DEPARTMENT OF EDUCATION (ED)		663,548	
84.031	HIGHER EDUCATION INSTITUTIONAL AID		DIRECT	DEPARTMENT OF EDUCATION (ED)		932,319	
84.116	FUND FOR THE IMPROVEMENT OF POSTSECONDARY EDUCATION		DIRECT	DEPARTMENT OF EDUCATION (ED)		2,237,382	862,052
84.165	MAGNET SCHOOLS ASSISTANCE		PASS-THROUGH	NAPA VALLEY UNIFIED SCHOOL DISTRICT	1625574	57,978	
84.200	GRADUATE ASSISTANCE IN AREAS OF NATIONAL NEED		DIRECT	DEPARTMENT OF EDUCATION (ED)		690,805	
84.215	INNOVATIVE APPROACHES TO LITERACY, FULL-SERVICE COMMUNITY SCHOOLS; AND PROMISE NEIGHBORHOODS		PASS-THROUGH	SOUTH BAY COMMUNITY SERVICES	SUB30025303 (U215N180049)	22,962	
84.287	TWENTY-FIRST CENTURY COMMUNITY LEARNING CENTERS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	19-14349-30010-2A	500,418	175,537
84.287	TWENTY-FIRST CENTURY COMMUNITY LEARNING CENTERS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	1914765300102A	31,241	
84.305	COVID-19 - EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	COVID-19	PASS-THROUGH	MANPOWER DEV RESOURCE CNTR	1042-UCI-01	(7,639)	
84.305	COVID-19 - EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	COVID-19	PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD064959 (SUB00000431)	159,637	

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84.305	COVID-19 - EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	COVID-19	PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD100044 (SUB00000047)-CYC1	98,117	
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		DIRECT	DEPARTMENT OF EDUCATION (ED)		284,602	20,660
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		DIRECT	DEPARTMENT OF EDUCATION (ED)		6,183,325	768,875
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG014056)	59,662	
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		PASS-THROUGH	EDUCATIONAL TESTING SERVICE	UCLA-ED-305A:02	(157)	
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		PASS-THROUGH	LEHIGH UNIVERSITY	R305A200368	127,894	
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		PASS-THROUGH	LITERACY DESIGN COLLABORATIVE, INC	20145515	(305)	
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		PASS-THROUGH	NEW YORK UNIVERSITY	F0959-02	38,842	
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		PASS-THROUGH	UNIVERSITY OF CHICAGO	FP064959-01-PR	93,341	
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		PASS-THROUGH	UNIVERSITY OF MISSOURI	C00072139	61,749	
84.324	RESEARCH IN SPECIAL EDUCATION		DIRECT	DEPARTMENT OF EDUCATION (ED)		894,367	199,000
84.324	RESEARCH IN SPECIAL EDUCATION		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B620630:2	30,837	
84.324	RESEARCH IN SPECIAL EDUCATION		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	PSU-77591	70,002	
84.324	RESEARCH IN SPECIAL EDUCATION		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	R324A190076	317,505	
84.324	RESEARCH IN SPECIAL EDUCATION		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	SA000076	26,214	
84.325	SPECIAL EDUCATION - PERSONNEL DEVELOPMENT						
84.325	TO IMPROVE SERVICES AND RESULTS FOR CHILDREN WITH DISABILITIES		DIRECT	DEPARTMENT OF EDUCATION (ED)		285,590	28,589
84.326	SPECIAL EDUCATION TECHNICAL ASSISTANCE AND DISSEMINATION TO IMPROVE SERVICES AND RESULTS FOR CHILDREN WITH DISABILITIES		DIRECT	DEPARTMENT OF EDUCATION (ED)		345,644	
84.335	CHILD CARE ACCESS MEANS PARENTS IN SCHOOL		DIRECT	DEPARTMENT OF EDUCATION (ED)		388,188	
84.365	ENGLISH LANGUAGE ACQUISITION STATE GRANTS		DIRECT	DEPARTMENT OF EDUCATION (ED)		825,310	92,827
84.365	ENGLISH LANGUAGE ACQUISITION STATE GRANTS		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	SUB 5590-UCSD-USDE-0311 (T365	63,677	
84.365	ENGLISH LANGUAGE ACQUISITION STATE GRANTS		PASS-THROUGH	SANTA CLARA UNIVERSITY	A18-0382-002	80,832	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		DIRECT	DEPARTMENT OF EDUCATION (ED)		76,509	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	1566430	1,620,722	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	156643001	3,454,992	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA20-CHSSP-UCB	(14,434)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA20-CWLP-UCB	(7,775)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA20-CWP-UCB	(1)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA20-CGEP-UCSB	(11,604)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA20-CHSSP-UCI	(116)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA20-CMP-UCSB	(20,588)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA20-CSP-UCSB	(13,399)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA20-CWP-UCI	(4,881)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA20-CWP-UCSB	(20,668)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA21CGEP	4,493	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA21CMP	6,837	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA21-CMP-UCD	923	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA-21-CWP-UCSB	13,094	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	96558	3,789	
84.368	COMPETITIVE GRANTS FOR STATE ASSESSMENTS (FORMERLY GRANTS FOR ENHANCED ASSESSMENT INSTRUMENTS)		PASS-THROUGH	COUNCIL OF CHIEF STATE SCHOOL OFFICERS	20193963	59,132	
84.374	TEACHER AND SCHOOL LEADER INCENTIVE GRANTS (FORMERLY THE TEACHER INCENTIVE FUND)		PASS-THROUGH	THE LEARNING ACCELERATOR	TLA-77630	71,597	
84.411	EDUCATION INNOVATION AND RESEARCH (FORMERLY INVESTING IN INNOVATION (I3) FUND)		DIRECT	DEPARTMENT OF EDUCATION (ED)		3,827,244	
84.411	EDUCATION INNOVATION AND RESEARCH (FORMERLY INVESTING IN INNOVATION (I3) FUND)		PASS-THROUGH	NATIONAL MATH AND SCIENCE INITIATIVE, INC.	20160003	1,101	
84.411	EDUCATION INNOVATION AND RESEARCH (FORMERLY INVESTING IN INNOVATION (I3) FUND)		PASS-THROUGH	NATIONAL WRITING PROJECT	NWP-72361	5,020	
84.423	SUPPORTING EFFECTIVE EDUCATOR DEVELOPMENT PROGRAM		PASS-THROUGH	UNIVERSITY OF KANSAS / UNIVERSITY OF KANSAS CENTER FOR RESEA	SUB FY2019-055 (U423A180029)	139,676	
84.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF EDUCATION (ED)	R324A2	371,898	
84.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	20213283-05	6,887	
85.RD	FEDERAL CONTRACTS		PASS-THROUGH	MILLENNIUM CHALLENGE CORPORATION	9533242	145,381	
89.003	NATIONAL HISTORICAL PUBLICATIONS AND RECORDS GRANTS		DIRECT	NATIONAL ARCHIVES AND RECORDS ADMINISTRATION		(1,049)	
92.273	UNKNOWN		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-54155 (AA006420)	107,077	

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93.011	NATIONAL ORGANIZATIONS OF STATE AND LOCAL OFFICIALS		PASS-THROUGH	EYSZ, INC	20057-20194033R1	57,841	
93.011	NATIONAL ORGANIZATIONS OF STATE AND LOCAL OFFICIALS		PASS-THROUGH	SOMALI FAMILY SERVICE OF SAN DIEGO	Sub 30117380 (HS42679)	92,647	
93.059	TRAINING IN GENERAL, PEDIATRIC, AND PUBLIC HEALTH DENTISTRY		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		618,439	127,107
93.061	INNOVATIONS IN APPLIED PUBLIC HEALTH RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		203,418	
93.061	INNOVATIONS IN APPLIED PUBLIC HEALTH RESEARCH		PASS-THROUGH	FLUID DISCOVERY, INC	A138945	17,260	
93.067	GLOBAL AIDS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		7,643,822	1,981,169
93.067	GLOBAL AIDS		PASS-THROUGH	HAITIAN CENTER FOR THE STRENGTHENING OF THE HEALTH SYSTEM	A136119	212,751	
93.068	CHRONIC DISEASES: RESEARCH, CONTROL, AND PREVENTION		PASS-THROUGH	LUPUS FOUNDATION OF AMERICA	8130-300-1129-10	9,984	
93.070	ENVIRONMENTAL PUBLIC HEALTH AND EMERGENCY RESPONSE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		947,376	
93.073	BIRTH DEFECTS AND DEVELOPMENTAL DISABILITIES - PREVENTION AND SURVEILLANCE		PASS-THROUGH	NATIONAL FRAGILE X FOUNDATION	21010101-	10,915	
93.077	FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		6,495,929	446,167
93.077	FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH		PASS THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	SUB 122033 (HL147326)	927	
93.077	FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	SUB 122033 (HL147326)	92,578	
93.077	FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	A20-0230-001	32,339	
93.077	FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	R01HL144384	202,910	
93.077	FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1013329-002_UCDAVIS	148,269	
93.077	FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH		PASS-THROUGH	PORTLAND STATE UNIVERSITY	007815	15,924	
93.077	FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	P006754502	435,539	
93.077	FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH		PASS-THROUGH	WESTAT	6782-S-01	103,108	
93.080	BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		140,522	25,249
93.080	BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND RESEARCH		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	CIBDIX2020CDC-BCHO-01	21,356	
93.080	BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND RESEARCH		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	SUB CIBDIX2020CDC-UCSD-01 (...)	140	
93.080	BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND RESEARCH		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	sub CIBDIX2020CDC-UCSD-02 (...)	14,490	
93.080	BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND RESEARCH		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	CIBDIX2020CDC-UCD	18,786	
93.080	BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND RESEARCH		PASS-THROUGH	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	Sub 12045sc (DD000003)	6,986	
93.080	BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND RESEARCH		PASS-THROUGH	PUBLIC HEALTH INSTITUTE	AR02478	2,826	
93.081	ASPR SCIENCE PREPAREDNESS AND RESPONSE GRANTS		PASS-THROUGH	STRATECH LLC	STRATA2016-CYC1	2,535	
93.084	COVID-19 - PREVENTION OF DISEASE, DISABILITY, AND DEATH BY INFECTIOUS DISEASES	COVID-19	PASS-THROUGH	HARVARD PILGRIM HEALTH CARE	U54CK000484	1,879	
93.084	PREVENTION OF DISEASE, DISABILITY, AND DEATH BY INFECTIOUS DISEASES		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		2,816,892	208,745
93.084	PREVENTION OF DISEASE, DISABILITY, AND DEATH BY INFECTIOUS DISEASES		PASS-THROUGH	HARVARD PILGRIM HEALTH CARE	HPHC-204704	392	
93.084	PREVENTION OF DISEASE, DISABILITY, AND DEATH BY INFECTIOUS DISEASES		PASS-THROUGH	HARVARD PILGRIM HEALTH CARE	HPHC-204773	5,065	
93.084	PREVENTION OF DISEASE, DISABILITY, AND DEATH BY INFECTIOUS DISEASES		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2350954	13,448	
93.084	PREVENTION OF DISEASE, DISABILITY, AND DEATH BY INFECTIOUS DISEASES		PASS-THROUGH	STATE UNIVERSITY OF NEW YORK AT ALBANY	SUB 6-86001 (1 NU38PS004650-01	4,366	
93.084	PREVENTION OF DISEASE, DISABILITY, AND DEATH BY INFECTIOUS DISEASES		PASS-THROUGH	STATE UNIVERSITY OF NEW YORK AT ALBANY	sub 8-93075 (6 NU38PS004650...	23,773	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		8,811,098	1,777,788
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	19-0244	321,671	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001494325	(518)	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	CIBDIX2015CDC-BCHO-5	48	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	SUB GENFD0001824208 (FD006003)	160,142	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	RGF011721-B	34,172	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	A137457	19,711	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	315765	10,908	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	3200840819:1	86,920	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	GG017607	382,723	74,107

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	CUMBERLAND PHARMACEUTICALS INC.	20201844	12,335	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A039104	6,218	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	NCT HOLDINGS, INC.	SUB 20200271(FD006872)	(835)	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	NEW YORK MEDICAL COLLEGE	123900	4,883	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	NEW YORK MEDICAL COLLEGE	120005	14,733	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE, INC.	Z8B00010	6,319	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	UNIVERSITY OF MISSOURI	UM-77659	19,466	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER	3001483892	221,705	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	VIRGINIA COMMONWEALTH UNIVERSITY	P00009255 SA008	2,750	
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		PASS-THROUGH	YALE UNIVERSITY	GR110185 (CON-80002692)	8	
93.110	COVID-19 - MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		(19,578)	
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		5,242,825	1,135,298
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	CIBDIX2012RSA - UCSD - 11 ...	2,385	
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	CIBDIXRSA2012-BCHO-08	7,830,079	
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	Sub CIBDIX2012RSA-UCSD-7(5 H3	25,090	
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	CIBDIXRSA2012U	48,782	
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		PASS-THROUGH	CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION	SUB 807958.UCSD.18.1 (AMC28548	171	
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	Sub 30057232 (H30MC24045-09...	11,166	
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		PASS-THROUGH	IMMUNE DEFICIENCY FOUNDATION	A136216	230,213	16,778
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	2-5-M9136:4	63,194	
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	FY20.609.007	(422)	
93.113	COVID-19 - ENVIRONMENTAL HEALTH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		187,798	
93.113	COVID-19 - ENVIRONMENTAL HEALTH	COVID-19	PASS-THROUGH	MARIPOSA COUNTY UNIFIED SCHOOL DISTRICT	FD71	41,567	
93.113	COVID-19 - ENVIRONMENTAL HEALTH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	129828894	29,550	
93.113	ENVIRONMENTAL HEALTH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		28,697,647	3,960,762
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	63427.2010840.669305	9,958	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	Sub 000012884-A (E5031247)	31,936	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	U01E5029234	203,216	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	CITY OF HOPE	63427.2010840.669303	38,754	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	CITY OF HOPE	63427.2010840.669302	25,657	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	COLORADO STATE UNIVERSITY	G-45067-02	13,915	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	COLUMBIA UNIVERSITY	SUB 3(GG010691) (E5025225)	9,445	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	COLUMBIA UNIVERSITY	3(GG014926-01)	6,358	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	EMORY UNIVERSITY	A541455	13,377	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	GEORGE MASON UNIVERSITY	E2053552	7,927	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	A17-0820-003	49,179	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	R01E5031117	96,535	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2003191417	2,174	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2003218455	20,511	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	R24E5030893	18,134	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	MCGILL UNIVERSITY	PT 80521	31,054	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	PRINCETON UNIVERSITY	SUB00000327	130,185	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	PUBLIC HEALTH INSTITUTE	01884	24,315	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	RESEARCH FOUNDATION FOR MENTAL HYGIENE	R01E5029281	54,881	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB NONE (E5025585)	5	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	SENSIT VENTURES, INC.	A22-0579	49,103	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	SILENT SPRING INSTITUTE	7370-UCSF-Y01	71,141	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	5-54116	95,608	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF ARIZONA	585501	33,188	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF ARIZONA	R01E5020867	158,258	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	SUB 1557262 (E5027853)	18,317	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	SUB FY17.625.007(E5027698)	225,993	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY17.625.006	353,956	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF IOWA	R01E5031098	125,931	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF KENTUCKY/THE UNIVERSITY OF KENTUCKY RESEARCH F	320000278421189	26,810	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF MISSOURI	010644	183,628	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF NEW MEXICO	SUB 3RHY2 (E5030993)	105,754	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	sub (139078656)(E5031074)	104,333	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	sub-138959000-E5032295	108,485	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	1R01E5030364	135,956	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF TEXAS AT ARLINGTON	1261602	4	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	A16-0601-004	18,104	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	A20-000780	137,523	
93.113	ENVIRONMENTAL HEALTH		PASS-THROUGH	UNIVERSITY OF UTAH	1006007	35,454	
93.116	PROJECT GRANTS AND COOPERATIVE AGREEMENTS FOR TUBERCULOSIS CONTROL PROGRAMS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	17-10035	2,695,736	
93.117	PREVENTIVE MEDICINE RESIDENCY		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		698,423	
93.121	PREVENTIVE MEDICINE RESIDENCY		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		450,304	
93.121	COVID-19 - ORAL DISEASES AND DISORDERS RESEARCH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	USC-D8877	17,046	
93.121	COVID-19 - ORAL DISEASES AND DISORDERS RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA		36,010,030	1,330,251
93.121	ORAL DISEASES AND DISORDERS RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		61,016	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UC LAWRENCE BERKELEY LABORATORY		6,325	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	BIOVINC LLC	SR44DE025524-0351	131,726	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	E0731-053		

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	E0731-000	81,011	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	RE5516561	373,184	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG013390):1	131,391	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	3P50DE019032-1152	(124)	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	KAISER PERMANENTE CENTER FOR HEALTH RESEARCH	SUB (DE029026) 005030442-UCSD	10,281	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	LANKENAU INSTITUTE FOR MEDICAL RESEARCH	06297-0793	205,385	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	SUB F7834-02 (DE029493)	34,575	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	PHOENIX CHILDREN'S HOSPITAL	U01DE029750	31,796	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	RODO MEDICAL, INC.	20210218	13,845	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	SA0000601	25,989	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	SCARLESS LABORATORIES, INC	ZSB1DE026972	84,712	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	61676501-123526	14,742	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	6261908-4131209	41,492	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	UA-77996	2,833	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FV19-655.001	11,554	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF ILLINOIS CHICAGO	18683	68,053	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	104529-18527	15,634	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	3004085830	21,656	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA SYSTEM	R01DE028146	411,570	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	573964:1	7,591	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	132095635	358,661	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	132097943	392,152	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	32136349	206,176	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	U24DE029463	(2,068)	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0010816B	11,772	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	UTHSC-E0625	80,820	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	UTHSC-E0768	213,563	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	SUB10044863-03(DE027493)	16,253	
93.121	ORAL DISEASES AND DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC10818	27,713	
93.127	EMERGENCY MEDICAL SERVICES FOR CHILDREN		PASS-THROUGH	RHODE ISLAND HOSPITAL	7017137490	242,581	
93.127	EMERGENCY MEDICAL SERVICES FOR CHILDREN		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA20-000617	20,415	
93.134	GRANTS TO INCREASE ORGAN DONATIONS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		39,299	
93.135	CENTERS FOR RESEARCH AND DEMONSTRATION FOR HEALTH PROMOTION AND DISEASE PREVENTION		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,328,497	189,792
93.135	CENTERS FOR RESEARCH AND DEMONSTRATION FOR HEALTH PROMOTION AND DISEASE PREVENTION		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	SUB 18-10753 (NUF2CE002501-01-	(40,239)	
93.135	COVID-19 - CENTERS FOR RESEARCH AND DEMONSTRATION FOR HEALTH PROMOTION AND DISEASE PREVENTION	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		313,224	
93.136	INJURY PREVENTION AND CONTROL RESEARCH AND STATE AND COMMUNITY BASED PROGRAMS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		986,879	41,627
93.136	INJURY PREVENTION AND CONTROL RESEARCH AND STATE AND COMMUNITY BASED PROGRAMS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	SUB 20-10737 (NUF2CE002501-...	355,397	
93.137	COMMUNITY PROGRAMS TO IMPROVE MINORITY HEALTH GRANT PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		612,244	158,675
93.137	COMMUNITY PROGRAMS TO IMPROVE MINORITY HEALTH GRANT PROGRAM		PASS-THROUGH	CITY OF CHULA VISTA	SUB 2021-079 (CPIMP211287-0...	280,723	
93.137	COVID-19 - COMMUNITY PROGRAMS TO IMPROVE MINORITY HEALTH GRANT PROGRAM	COVID-19	PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	UMD-77687	23,070	
93.142	COVID-19 - NIEHS HAZARDOUS WASTE WORKER HEALTH AND SAFETY TRAINING	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		116,392	
93.142	NIEHS HAZARDOUS WASTE WORKER HEALTH AND SAFETY TRAINING		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,848,080	524,748
93.143	COVID-19 - NIEHS SUPERFUND HAZARDOUS SUBSTANCES_BASIC RESEARCH AND EDUCATION	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,924,764	371,025
93.143	NIEHS SUPERFUND HAZARDOUS SUBSTANCES_BASIC RESEARCH AND EDUCATION		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		4,236,059	
93.145	COVID-19 - HIV-RELATED TRAINING AND TECHNICAL ASSISTANCE	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		5	
93.145	HIV-RELATED TRAINING AND TECHNICAL ASSISTANCE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		4,273,728	486,303
93.145	HIV-RELATED TRAINING AND TECHNICAL ASSISTANCE		PASS-THROUGH	HEALTH RESEARCH, INC.	HRI-D8369	55,796	
93.153	COORDINATED SERVICES AND ACCESS TO RESEARCH FOR WOMEN, INFANTS, CHILDREN AND YOUTH (RYAN WHITE PROGRAM PART D WOMEN, INFANTS, CHILDREN AND YOUTH WICY PROGRAM)		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		2,702,795	1,104,543
93.153	COVID-19 - COORDINATED SERVICES AND ACCESS TO RESEARCH FOR WOMEN, INFANTS, CHILDREN, AND YOUTH (RYAN WHITE PROGRAM PART D WOMEN, INFANTS, CHILDREN AND YOUTH WICY PROGRAM)	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		47,958	
93.155	RURAL HEALTH RESEARCH CENTERS		PASS-THROUGH	UNIVERSITY OF IOWA	S02150-01	20,745	
93.157	CENTERS OF EXCELLENCE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		600,337	52,119
93.157	COVID-19 - CENTERS OF EXCELLENCE	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		161,494	
93.172	HUMAN GENOME RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		44,439,306	7,590,277
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	ARIMA GENOMICS, INC.	Sub 20173614 (HG008118)	(3)	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S380706	740,615	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG014890-02)	14,042	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	2(GG014890-01)	186,906	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	203286-4	351,593	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	A20-0400-001	493,675	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	EUROPEAN BIOINFORMATICS INSTITUTE	A17-0370-003	298,004	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	sub 144581-5116058 (HG011485)	282,875	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	153056.5112935.0607:1	49,453	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	5118288	58,083	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-C687-4609	11,783	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	OOS030229-UCSF	225,337	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	011266	13,731	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1013661_UCSF	455,421	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	1206	36,119	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	SRI INTERNATIONAL	A17-0549-003	22,110	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62800385-204089	101,605	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62732877-210524	80,208	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62775146-210524	217,048	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	6258457	74,247	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	THE BROAD INSTITUTE, INC.	Sub 5001318-5500001724 (HG0...	4,119	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	THE BROAD INSTITUTE, INC.	A17-0095-003	(4,537)	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	THE BROAD INSTITUTE, INC.	A19-0066-002	1,116,604	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	FY21.1067.001	342,668	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	UNIVERSITY OF CONNECTICUT	Sub UCHC7-101026114-A1 (HG0098	8,972	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	UNIVERSITY OF CONNECTICUT	SUB UCHC7-115885228-A3 (HG0098	(28,596)	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	UNIVERSITY OF CONNECTICUT	SUB UCHC7-129086047-A5 (HG0098	501,262	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	UNIVERSITY OF CONNECTICUT	Sub UCHC7-140878217-A6 (HG0098	773,857	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC13089/59349	329,780	
93.172	HUMAN GENOME RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU220141	74,125	
93.173	COVID-19 - RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS	COVID-19	PASS-THROUGH	TEMPLE UNIVERSITY	5R01DC015588	44,678	
93.173	COVID-19 - RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTH CAROLINA	20-4090	(37,314)	
93.173	COVID-19 - RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS	COVID-19	PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0011468C	27,092	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		23,915,270	715,841
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	BOSTON UNIVERSITY	4500003210	110,396	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	BOSTON UNIVERSITY	4500003211	297,062	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	BOSTON UNIVERSITY	4500003212	312,729	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	BOSTON UNIVERSITY	4500003213	333,680	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	CACTUS MEDICAL, LLC	CM-5560986	622	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001723195	59,020	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	COLD SPRING HARBOR LABORATORY	SUB 65070112 (DC017695)	48,696	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	DREXEL UNIVERSITY	R01DC017181	69,121	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	FLORIDA ATLANTIC UNIVERSITY	010442	10,357	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	GEORGIA STATE UNIVERSITY	GSU-77989	51,571	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2002596820:3	(396)	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	MASSACHUSETTS EYE AND EAR INFIRMIARY	530750	99,126	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	MASSACHUSETTS EYE AND EAR INFIRMIARY	530989	1,828	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	MASSACHUSETTS EYE AND EAR INFIRMIARY	530988	39,835	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	MASSACHUSETTS EYE AND EAR INFIRMIARY	530986	2,148	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	MASSACHUSETTS EYE AND EAR INFIRMIARY	5308	20,807	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	Sub 1016786_UCSD (DC012938)	6,653	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	008310	22,656	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	012107	286,116	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1010095_UCDAVIS	101,879	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, TH	1048815	65,182	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB A21-0032-5001 (DC018237)	36,807	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	SUB SA0000551 (DC015046)	31,975	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	STANFORD UNIVERSITY	R01DC004154	87,825	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	UNIVERSITY OF FLORIDA	R01DC019345	72,122	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00003128	4,864	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	UNIVERSITY OF KENTUCKY/THE UNIVERSITY OF KENTUCKY RESEARCH F	SUB 3210001602-21-013 (DC01...	46,885	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	0062065 (131832-1)	265,970	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	UNIVERSITY OF SOUTH CAROLINA	21-4433	187,063	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	UNIVERSITY OF SOUTH CAROLINA	SC-77609	31,163	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	SUB 2121-1001-00-C (DC015901)	172,974	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA17-000879	159,469	
93.173	RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS		PASS-THROUGH	UNIVERSITY OF UTAH	10041913-027	270	
93.178	NURSING WORKFORCE DIVERSITY		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		84,580	

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93.185	IMMUNIZATION RESEARCH, DEMONSTRATION, PUBLIC INFORMATION AND EDUCATION TRAINING AND CLINICAL SKILLS IMPROVEMENT PROJECTS		PASS-THROUGH	UNIVERSITY OF ROCHESTER	417201:3	44,281	
93.185	IMMUNIZATION RESEARCH, DEMONSTRATION, PUBLIC INFORMATION AND EDUCATION TRAINING AND CLINICAL SKILLS IMPROVEMENT PROJECTS		PASS-THROUGH	UNIVERSITY OF ROCHESTER	417620 / UR FAO: GR510954:1	187,739	
93.186	NATIONAL RESEARCH SERVICE AWARD IN PRIMARY CARE MEDICINE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		71,712	
93.197	CHILDHOOD LEAD POISONING PREVENTION PROJECTS, STATE AND LOCAL CHILDHOOD LEAD POISONING PREVENTION AND SURVEILLANCE OF BLOOD LEAD LEVELS IN CHILDREN		PASS-THROUGH	MICHIGAN STATE UNIVERSITY	RC107653-UCSF	(5,489)	
93.210	TRIBAL SELF-GOVERNANCE PROGRAM-IHS COMPACTS/FUNDING AGREEMENTS		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	A21-0509-001	12,516	
93.211	TELEHEALTH PROGRAMS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		236,751	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		12,147,479	716,411
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	BERKELEY FERMENTATION SCIENCE INC.	A20-2560	19,915	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	SUB R5515760 (U01AT010598)	189,596	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	HEALTH RESEARCH, INC.	R01AT010216	48,537	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 20043363313 (AT010134)	(3,249)	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	LAUREATE INSTITUTE FOR BRAIN RESEARCH	SUB 1R34AT009889(AT009889)	21,086	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	NEW YORK UNIVERSITY	17-A0-00-008501	30,483	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	NEXTRAST, INC	A130673	13,933	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	PALMER COLLEGE OF CHIROPRACTIC	12274	130,716	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	RAND CORPORATION	SCON-00000315	107,123	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	STANFORD UNIVERSITY	62266174-139496	200,498	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	STANFORD UNIVERSITY	R01AT010593	180,232	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	UNIVERSITY OF CONNECTICUT	Sub 403552 (AT010555)	31,271	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA 322745 CASMAR (AT010332)	2	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA 322762 Norman (AT010332)	21,904	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LANG 322920(AT010332)	63,847	
93.213	RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LIU 322822(AT010332)	69,629	
93.225	NATIONAL RESEARCH SERVICE AWARDS HEALTH SERVICES RESEARCH TRAINING		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		964,420	213,868
93.225	NATIONAL RESEARCH SERVICE AWARDS HEALTH SERVICES RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	SUB FY19.817.001 (HS024597)	763	
93.226	COVID-19 - RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		618,311	59,949
93.226	COVID-19 - RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES	COVID-19	PASS-THROUGH	DARTMOUTH COLLEGE	R1473	141,360	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		7,189,692	987,700
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	123675	54,443	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG014652-01)	23,930	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	DARTMOUTH COLLEGE	R1371	23,274	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	DUKE UNIVERSITY	2037623	(406)	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	INDIANA UNIVERSITY	9143	50,826	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2003905101	164,794	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	MEDICAL UNIVERSITY OF SOUTH CAROLINA	Sub A00-3805-S002 (HS026491)	25,784	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	RAND CORPORATION	9920160022:5	13,936	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	RAND CORPORATION	9920180026:01	49,930	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	RAND CORPORATION	SCON-00000375	45,721	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	UNIVERSITY OF MINNESOTA	N008050101	(25,656)	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD00004760 (136826-1)/(HS0...	9,778	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD00004483 (136450-2)	12,208	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0014841B	237,343	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0011289	(168)	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	UTHSCH-E0763	10,068	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		PASS-THROUGH	YESHIVA UNIVERSITY	311587	80,970	
93.233	COVID-19 - NATIONAL CENTER ON SLEEP DISORDERS RESEARCH	COVID-19	PASS-THROUGH	OHIO STATE UNIVERSITY	60075995	17,192	

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93.233	NATIONAL CENTER ON SLEEP DISORDERS RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		6,335,300	29,885
93.233	NATIONAL CENTER ON SLEEP DISORDERS RESEARCH		PASS-THROUGH	BETH ISRAEL DEACONESS MEDICAL CENTER	01063	86,198	
93.233	NATIONAL CENTER ON SLEEP DISORDERS RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	R01HL152454	72,016	
93.233	NATIONAL CENTER ON SLEEP DISORDERS RESEARCH		PASS-THROUGH	LOYOLA UNIVERSITY OF CHICAGO	Sub 211467 (HL148271)	45,445	
93.233	NATIONAL CENTER ON SLEEP DISORDERS RESEARCH		PASS-THROUGH	UNIVERSITY OF MIAMI	SPC-001031(HL140437)	(30)	
93.233	NATIONAL CENTER ON SLEEP DISORDERS RESEARCH		PASS-THROUGH	WAYNE STATE UNIVERSITY	WSU19118	88,199	
93.242	COVID-19 - MENTAL HEALTH RESEARCH GRANTS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		911,127	7,961
93.242	COVID-19 - MENTAL HEALTH RESEARCH GRANTS	COVID-19	PASS-THROUGH	BENTEN TECHNOLOGIES, INC.	BT-5560953	10,050	
93.242	COVID-19 - MENTAL HEALTH RESEARCH GRANTS	COVID-19	PASS-THROUGH	MICHIGAN STATE UNIVERSITY	MSU-77652	7,107	
93.242	COVID-19 - MENTAL HEALTH RESEARCH GRANTS	COVID-19	PASS-THROUGH	RUSH UNIVERSITY MEDICAL CENTER	13041702-SUB01	1,922	
93.242	COVID-19 - MENTAL HEALTH RESEARCH GRANTS	COVID-19	PASS-THROUGH	STANFORD UNIVERSITY	62199004-140720	8,288	
93.242	COVID-19 - MENTAL HEALTH RESEARCH GRANTS	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	104020221	15,337	
93.242	MENTAL HEALTH RESEARCH GRANTS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		165,012,372	19,917,534
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS THROUGH	CENTRE FOR ADDICTION AND MENTAL HEALTH	SUB - 20-339 (MH112815)	1,400	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS THROUGH	JOHNS HOPKINS UNIVERSITY	Sub 2004807807 (MH123423)	72,036	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS THROUGH	MCLEAN HOSPITAL	SUB 401185 (MH109334)	6,732	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS THROUGH	SAK INSTITUTE FOR BIOLOGICAL STUDIES	SUB P0244872(MH114831)	3,763	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	ADVANCED MRI TECHNOLOGIES, LLC	52592	39,778	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	ALLEN INSTITUTE	SUB 20170566 (MH114827)	369,723	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	7000000444	23,902	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	BLUELIGHT THERAPEUTICS, INC.	SB200146	60,503	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	BOISE STATE UNIVERSITY	8424-PO133994 (MH119127)	160,651	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	BOSTON MEDICAL CENTER CORPORATION	7700	23,412	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	BOSTON UNIVERSITY	SUB - 45000003764 (MH111359)	12	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	BOSTON UNIVERSITY	R01MH122867	42,827	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	U19MH113201	59,742	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	BROWN UNIVERSITY	00001819	29,108	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	5454700	10,530	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	5456163	205,449	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	5490482	399,786	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	5539519	313,639	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	S16-0021	256,265	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	CAMINO PHARMA LLC	SUB CP10-2020-USCD (MH122063)	201,233	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	CHILD MIND INSTITUTE INC	1R01MH115363 SUBN3:1	16,428	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	306236	11,907	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	CLEVELAND CLINIC LERNER COLLEGE OF MEDICINE	SUB CCF2019354 (R01MH124530)	16,503	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	COLD SPRING HARBOR LABORATORY	64580239	138,603	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	COLD SPRING HARBOR LABORATORY	SUB 65290113 - PO# 921064-S...	83,381	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	COLD SPRING HARBOR LABORATORY	SUB 65290213 - PO# 921064-S...	175,608	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	COLD SPRING HARBOR LABORATORY	64580440 - PO# 921058-SV	468,787	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	COLD SPRING HARBOR LABORATORY	R01MH101214	80,572	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	COLD SPRING HARBOR LABORATORY	65500114	5,822	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	COLUMBIA UNIVERSITY	4(GG012936-01)	137,327	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	CORNELL UNIVERSITY	190415-4	2,229	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	DIGITAL ARTEFACTS, LLC	Sub 20162384 (MH099964)	356,292	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	DREXEL UNIVERSITY	SUB - 900129 (MH125261)	10,842	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	DREXEL UNIVERSITY	R01MH115715	410,679	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	DREXEL UNIVERSITY	900122	84,318	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	DUKE UNIVERSITY	313000010	18,359	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	DUKE UNIVERSITY	SUB A034434 (MH124612)	186,383	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	DUKE UNIVERSITY	Sub A03-5193 (MH114253)	16,525	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	EASTERN VIRGINIA MEDICAL SCHOOL	R01MH118139	457,439	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	EMMA PENDELTON BRADLEY HOSPITAL	712-752:3	(55)	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	EMORY UNIVERSITY	SUB - A395267 (MH108826)	145,504	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	EPIGEN BIOSCIENCES, INC.	Sub (1032)(Prime) 2R44MH115...	27,163	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	EPIGEN BIOSCIENCES, INC.	SUB 20173585 (MH115529)	62	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	FLORIDA INTERNATIONAL UNIVERSITY	000450	51,718	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	FLORIDA INTERNATIONAL UNIVERSITY	000487	21,110	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	GU 17-M95	49	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	GEORGIA STATE UNIVERSITY	SUB SP00015049-01 (MH129...	69,988	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	GEORGIA STATE UNIVERSITY	SP00013948-01	127,160	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	GLADSTONE INSTITUTES	R2419-A	95,603	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	HELUNA HEALTH	A136121	43,320	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	HELUNA HEALTH	HH-D8611	5,809	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	HELUNA HEALTH	0743-0102	11,930	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-E531-4609	278,175	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-F491	122,407	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	INSCOPIX, INC.	A20-1338	151,200	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	INSTITUTE OF BIOLOGICAL PSYCHIATRY	WERGE2021-SUB01 (MH124789)	52,412	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	JINGA-HI, INC.	049157	14,796	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2003199958(MH111516)	(5,087)	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	Sub 2004807807 (MH123423)	373,880	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	KENNEDY KRIEGER INSTITUTE	SUB 110268-0719 (MH085328)	125	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	KITWARE, INC.	K003082-00-502	52,841	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	LAUREATE INSTITUTE FOR BRAIN RESEARCH	UCLA20204798	40,807	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	MAHIDOL UNIVERSITY	MAHIDOL-D5210	116,182	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	MCLEAN HOSPITAL	SUB 401185 (MH109334)	33,838	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	NEY2150-01	(30,723)	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	PUL2250-01	14,201	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	ORYGEN YOUTH HEALTH RESEARCH CENTRE	A132507	47,799	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	ORYGEN YOUTH HEALTH RESEARCH CENTRE	U01MH105258	21,498	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	S000699-DHHS	103,159	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	RESEARCH FOUNDATION FOR MENTAL HYGIENE	Sub PO 154206 (MH124045)	19,438	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, TH	100-1145511-80872	(9,156)	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	30124087	16,902	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	A17-0057-5006 (3U19MH114831...)	92,740	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	A20-0017-5002(U01 MH121282)	128,702	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	A21-0039-5001(UG3MH123394)	107,624	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB - A17-0057-5005 (MH114831)	606,577	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	sub A21-0039-S002 (MH123394)	20,500	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB P0244872(MH114831)	77,054	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB0230285(MH1127630)	19,908	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	A17-0057-5008	237,154	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	A17-0057-5007	175,002	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	SEVEN BIOSCIENCES, INC.	A21-1945	438	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	STANFORD UNIVERSITY	61540206-121859	82,778	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	STANFORD UNIVERSITY	61835882-132392	178,865	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	STANFORD UNIVERSITY	62101628-128139	62,972	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	STANFORD UNIVERSITY	IFBT-D8710	129,332	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	STANFORD UNIVERSITY	SUB 62679603-175690 (MH124...	23,117	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	STANFORD UNIVERSITY	60546456-108656:6	(2,978)	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	SVISION LLC	4R44MH12116702	(12,040)	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	TEMPLE UNIVERSITY	264202-UC	369,591	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	TEXAS TECH UNIVERSITY	21FO10-01	15,700	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	237315	7,538	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	THE HEKTOEN INSTITUTE OF MEDICINE	50081-R01-UCSF01	16,127	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	THE HEKTOEN INSTITUTE OF MEDICINE	50082-R01-UCLA02:	13,177	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB S-50366 (MH100175)	5,757	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB S-54369 (1RF1MH123224)	94,170	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	Sub S-54631 (MH100175)	63,842	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000519413-001	79,786	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	TRANSLUCENCE BIOSYSTEMS LLC	TRANS-77639	115,086	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF BRITISH COLUMBIA	20R00510-UCSF	(69)	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF CHICAGO	SUB AW100409 SUB00000146(MH0	213,179	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF CHICAGO	FP056858-02-PR	(585)	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF CONNECTICUT	136123	60,459	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF DENVER	SC37963-0100	11,648	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF FLORIDA	UFDSP00012225	347,869	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF ILLINOIS CHICAGO	18584	99,554	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	17128:1	60,844	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	UIUC-77638	25,903	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF IOWA	S02439-01	2,440	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE	UMSM-77001	147,463	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF MARYLAND, BALTIMORE	R01MH065034	159,329	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF MARYLAND, BALTIMORE COUNTY	UMB-77646	59,985	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00008746	489,792	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00012061	145,599	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00010093	51,017	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00014224	187,558	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF MINNESOTA	N006909501	96,026	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF MINNESOTA	sub N008249401 (MH123754)	12,800	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF MINNESOTA	Sub N008707701 (MH119569)	5,898	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF MISSOURI - ST. LOUIS	00056433-2	73,381	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF NAIROBI	S01MH115512-02	283,398	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	S104172	16,477	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	S104173	66,462	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	S107035	138,639	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	sub S121310 (MH128034)	15,913	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	S117207	40,589	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF OREGON	217310A	44,095	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	SUB 569829(MH109382)	(42)	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	SUB 569975 (MH111389)	17,125	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	0061652 (131408-1)	29,964	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	SUB AW00004543 (136577-1) ...	31,459	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	0057692 (130512-1):1	84,023	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	CNVAA00062468 (132248-1)	28,473	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF ROCHESTER	SUB00000206 / GR531828	628	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 104478552 (MH115005)	(3,424)	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 11299562 (MH116990)	639,230	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	104478552:1	73,559	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	108530993:1	(583)	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	113864507:1	39,022	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	138402253	364,818	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	141310813	171,577	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	90341158:2	(5,515)	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SCON-00002110	329,497	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	00002191	13,408	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	144628579	34,922	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF TEXAS AT DALLAS	SUB 1705329 (MH112620)	316,534	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	169329	184,152	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	GMO210205 PO 00000002231 (MH1...	12,200	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	GMO190607 PO 0000001787-CYC1	114,928	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	GMO220315	113,241	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GB10691.PO#2133383	1,104,874	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	SUB UWSC11075 (MH111520)	305	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC10127	53,682	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC9388	51,847	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	VANDERBILT UNIVERSITY	UNIV61086	18,315	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	VANDERBILT UNIVERSITY	61519	391,490	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	VANDERBILT UNIVERSITY MEDICAL CENTER	SUB VUMC86231 (MH123563)	50,889	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	VANDERBILT UNIVERSITY MEDICAL CENTER	OSA00000088	29,004	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC9-82D50	242,832	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA BARNES 325439 (MH123650)	14,473	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA CRAMER 325443 (MH123650)	71,382	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA RAMANATHAN 325434 (MH12...	23,602	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	R01MH110504	96,423	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	VIRTUALLY BETTER, INC.	20191615	23,627	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-19-35 (MH118031)	12,409	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-21-51 (MH104030)	37,798	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-19-16	100,137	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-20-348	43,212	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-20-350	20,405	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-19-436	57,656	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-21-52	180,752	96,891
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	YALE UNIVERSITY	SUB GR110976 (CON-80002784)...	265,217	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	YALE UNIVERSITY	GR102867(CON-80001335):8	17	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	YALE UNIVERSITY	GR110243 (CON-80002690)	384,496	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	YALE UNIVERSITY	GR110248 (CON-80002691)	409,178	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	YALE UNIVERSITY	GR110971 (CON-80002769)	698,385	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	YALE UNIVERSITY	GR110983 (CON-80002803)	357,686	
93.242	MENTAL HEALTH RESEARCH GRANTS		PASS-THROUGH	YALE UNIVERSITY	M15A12179 (A10304)	192	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		3,363,404	480,896
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	AMERICAN ACADEMY OF ADDICTION PSYCHIATRY INC	D9542-053	93,646	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	AMERICAN ACADEMY OF ADDICTION PSYCHIATRY INC	D9543-053	81,315	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	AMERICAN PSYCHOLOGICAL ASSOCIATION, INC	22010013	12,918	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	COUNCIL ON ALCOHOLISM AND DRUG ABUSE, THE	SB220039	10,691	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	RAND CORPORATION	9920170049:02	6,974	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	SKID ROW HOUSING TRUST	90-118	19	
93.247	ADVANCED NURSING EDUCATION WORKFORCE GRANT PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		765,531	
93.250	GERIATRIC ACADEMIC CAREER AWARDS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		79,814	
93.262	DEPARTMENT OF HEALTH AND HUMAN SERVICES COVID-19 - OCCUPATIONAL SAFETY AND HEALTH PROGRAM	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		8,631	
93.262	OCCUPATIONAL SAFETY AND HEALTH PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		3,363,066	366,557
93.262	OCCUPATIONAL SAFETY AND HEALTH PROGRAM		PASS-THROUGH	CPWR - THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING	3001-1112	104,406	41,264
93.262	OCCUPATIONAL SAFETY AND HEALTH PROGRAM		PASS-THROUGH	HARVARD UNIVERSITY	112199-5106829	28,543	
93.262	OCCUPATIONAL SAFETY AND HEALTH PROGRAM		PASS-THROUGH	IOWA STATE UNIVERSITY	0249968	28,954	
93.262	OCCUPATIONAL SAFETY AND HEALTH PROGRAM		PASS-THROUGH	MARSHFIELD CLINIC RESEARCH FOUNDATION	US40H009568	39,249	
93.262	OCCUPATIONAL SAFETY AND HEALTH PROGRAM		PASS-THROUGH	MARSHFIELD CLINIC RESEARCH FOUNDATION	MCRF-6069	40,402	
93.262	OCCUPATIONAL SAFETY AND HEALTH PROGRAM		PASS-THROUGH	STANFORD UNIVERSITY	61405844-48844	35,784	
93.262	OCCUPATIONAL SAFETY AND HEALTH PROGRAM		PASS-THROUGH	UNIVERSITY OF NEBRASKA MEDICAL CENTER	US40H0	10,085	
93.262	OCCUPATIONAL SAFETY AND HEALTH PROGRAM		PASS-THROUGH	UNIVERSITY OF NEBRASKA MEDICAL CENTER	UNMC-77588	16,153	
93.262	OCCUPATIONAL SAFETY AND HEALTH PROGRAM		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5123435	28,334	
93.266	HEALTH SYSTEMS STRENGTHENING AND HIV/AIDS PREVENTION, CARE AND TREATMENT UNDER THE PRESIDENT'S EMERGENCY PLAN FOR AIDS RELIEF		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		2,078,586	1,072,057
93.268	IMMUNIZATION COOPERATIVE AGREEMENTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	18-10092	17,280,577	
93.273	ALCOHOL RESEARCH PROGRAMS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		21,344,965	2,893,638
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	PALM THERAPEUTICS, INC.	30073980	576	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	BOSTON MEDICAL CENTER CORPORATION	E0240-053	81,531	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	BOSTON MEDICAL CENTER CORPORATION	E0240-000	50,142	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	SUB 0001493560 (AA027036)	55,606	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	RGF010036-B:2	169,500	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	CLEVELAND CLINIC FOUNDATION	1492-SUB (NS100610)	29,036	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	DOULEUR THERAPEUTICS INC.	SUB 20192508 (NS113717)	193,952	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	FLORIDA STATE UNIVERSITY	Sub R000002931 (AA029547)	5,301	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	INDIANA UNIVERSITY-PURDUE UNIVERSITY INDIANAPOLIS	4688970-UCSF	53,721	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	KAISER FOUNDATION HOSPITALS	RNG210793-UCSF-01	56,906	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	RNG209393-UCSF-03	65,491	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	PALM THERAPEUTICS, INC.	30073980	22,965	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	S002581-DHHS	6,189	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	SA0000659	15,995	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	Sub SA0000641(AA026994)	141,910	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	SOUTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION	Sub SA0000707 (AA026697)	32,303	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	SOUTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION	5R01AA018071-13-SH1861	53,330	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	SOUTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION	R01AA018071	84,759	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	SRI INTERNATIONAL	SUB P017058 (AA021697)	47,409	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	SRI INTERNATIONAL	SUB P051079 (AA021696)	13,410	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	Sub 1009189-85979 (AA008401)	343,802	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	5-54422 SUB (SP60 AA006420-38)	18,213	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-54154 (AA006420-37)	46,012	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	5-53745;2	(260)	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000512064-003 (AA020802)	137,539	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF ARKANSAS, FAYETTEVILLE	55197	39,783	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY19.580.004	11,588	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF MISSOURI - KANSAS CITY	R01AA0201510	32,959	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	Sub 115958500 (AA011999)	94,550	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	Sub 115958813 (AA011999)	113,682	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	115959767	180,844	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	137334708	18,420	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF UTAH	012130	(14)	
93.273	ALCOHOL RESEARCH PROGRAMS		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MANDYAM 322868 (AA020098)	85,886	
93.273	COVID-19 - ALCOHOL RESEARCH PROGRAMS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		196,758	129,678
93.273	COVID-19 - ALCOHOL RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	1273-SUB	45,012	
93.273	COVID-19 - ALCOHOL RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	SOUTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION	2R01AA018071	2,528	
93.273	COVID-19 - ALCOHOL RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	SOUTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION	5R01AA018389-07	36,064	
93.273	COVID-19 - ALCOHOL RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	5-54324	43,839	
93.276	DRUG-FREE COMMUNITIES SUPPORT PROGRAM GRANTS		PASS-THROUGH	AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY INC.	20165007:3	(8,274)	
93.279	COVID-19 - DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		467,668	
93.279	COVID-19 - DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	Sub 000013208-B (DA041048)	84,856	
93.279	COVID-19 - DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	DUKE UNIVERSITY	A03-2098	31,091	
93.279	COVID-19 - DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	HENNEPIN HEALTHCARE RESEARCH INSTITUTE	15248-1	129,857	
93.279	COVID-19 - DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	MIRIAM HOSPITAL, THE	7147185JEJ	10,549	
93.279	COVID-19 - DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1015420	391,589	
93.279	COVID-19 - DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	RAND CORPORATION	SCON-00000403	19,992	
93.279	COVID-19 - DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	REKOVAR, INC.	215914	651	
93.279	COVID-19 - DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	RTI INTERNATIONAL	1-340-0217717-66136L	74,364	
93.279	COVID-19 - DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	SDSU-D9802	62,134	
93.279	COVID-19 - DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	COVID-19	PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD100228 (SUB00000208)	94,974	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		73,594,429	8,758,202
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS THROUGH	CARI HEALTH, INC.	SUB 20200817 (DA044905)	42,798	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY INC.	20164307:3	(55,349)	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY INC.	20212504	170,715	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	AUTOMATE SCIENTIFIC, INC.	1R41DA044788-01	26	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	AUTOMATE SCIENTIFIC, INC.	2019-2583	204,412	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	BOSTON MEDICAL CENTER CORPORATION	SUB 6170A?0535601(DA045547)	40,155	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	BOSTON UNIVERSITY	SUB 4500003604 (DA050159)	146,054	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	BOSTON UNIVERSITY	4500001814	20,281	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	BROWN UNIVERSITY	00001523	51,761	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	BROWN UNIVERSITY	Sub 00001761 (DA051849)	72,530	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	CARI HEALTH, INC.	SUB 20200817 (DA044905)	340,547	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001633790	8,410	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE	19-20-TF-R25DA050723-UCLA	33,841	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	RGF009209-A6	(2,257)	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	000013598-A	378,997	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	COLUMBIA UNIVERSITY	1 (GG011510)	12,992	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	DARTMOUTH COLLEGE	R1049:1	(462)	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	DARTMOUTH COLLEGE	R1057	123,064	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	2021-1532(DA055668)	40,524	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	DUKE UNIVERSITY	SUB 2036646 (DA044571)	34,110	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	FORDHAM UNIVERSITY	FORD0042 (DA031608)	(153)	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	FORDHAM UNIVERSITY	FORD0077-30290 (DA031608)	10,813	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	FORDHAM UNIVERSITY	sub FORD0074-30290 (DA031608)	6,957	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	0000970303	1,049	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	GEORGE MASON UNIVERSITY	Sub E2052484 (DA050097)	10,144	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	GLADSTONE INSTITUTES	R2512-A	85,111	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	GLADSTONE INSTITUTES	R2512-B	102,352	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	GLADSTONE INSTITUTES	SC-00072	29	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	GLADSTONE INSTITUTES	sub SC-00032 (DA051144)	44,788	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	HANOI MEDICAL UNIVERSITY	1R01DA050486-01-UCLA	73,623	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	HELUNA HEALTH	0391.0103	(2,601)	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	HELUNA HEALTH	0752.0101	60,270	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	HELUNA HEALTH	1U01DA051080-01	328,156	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	HELUNA HEALTH	20200081	844,019	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	HELUNA HEALTH	A133064	5,984	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	HENNEPIN HEALTHCARE RESEARCH INSTITUTE	15312-13 (DA040316)	52,077	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	HUNTER COLLEGE	41996-A	13,960	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-C341-4609	78,438	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2004890805 (DA013806)	163,185	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	MAGEE-WOMENS RESEARCH INSTITUTE AND FOUNDATION	MAGEE-D9300	41,433	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	MEDICAL UNIVERSITY OF SOUTH CAROLINA	SUB A00-3558-5001 (DA044438)	53,506	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	MEDICAL UNIVERSITY OF SOUTH CAROLINA	SUB MUSC19-010-8D703 (DA045300)	121,206	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	MIRIAM HOSPITAL, THE	SUB 7147185ELC (DA037190)	2,105	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	NANOCELLECT BIOMEDICAL, INC.	20200094	144,559	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	NEW YORK UNIVERSITY	19-A0-56-003671	61,500	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	NEW YORK UNIVERSITY	19A0S9003671	20	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	NEW YORK UNIVERSITY	R01DA045872	26,086	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	NEW YORK UNIVERSITY	21A0S1003671	50,652	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	NEW YORK UNIVERSITY	NYU-77640	11,580	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60044679 UCI	25,581	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1017225_UCSF_A	56,328	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	Sub 1012971_UCSD(DA046077)	54,359	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1017225-004_UCSF	19,787	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	Q2I, LLC	1R42DA050398-01	195,162	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	RAND CORPORATION	R01DA046226	26,386	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	RAND CORPORATION	SCON-00000250	56,491	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	RESEARCH FOUNDATION FOR MENTAL HYGIENE	20202219	15,718	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	RTI INTERNATIONAL	2-312-0216573-65365L	11,502	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	RTI INTERNATIONAL	3-312-0217620-66108L	19,110	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	RTI INTERNATIONAL	8-312-0216621-65699L	20,727	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	RTI INTERNATIONAL	1-312-0217620-66090L	27,332	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	RTI INTERNATIONAL	5-312-0216621-65427L:1	29,902	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	RUSH UNIVERSITY MEDICAL CENTER	RUSH-77649	51,374	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	SUB - SA00000770 (DA050724)	26,278	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	sub SA0000072 (DA042666)	266,752	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	sub SA00000779 (DA053167)	84,798	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	SA00000721	4,825	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	SAN FRANCISCO PUBLIC HEALTH FOUNDATION	1R01DA045690 - 01A1	20,383	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	Sub 69878-13285-UCSD (DA051...	109,533	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	STANFORD UNIVERSITY	62097886-26345	149,017	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	TEXAS CHRISTIAN UNIVERSITY	25935-LESA19-00	20,184	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-52673 (DA041750)	(329)	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD059270-01 (SUB00000049)	42,960	
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF CHICAGO	FP066079-01-PR	122,704	

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93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	1801973		(496)
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF MIAMI	OS00000290		510,192
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF MIAMI	M175215		(3,853)
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	Sub 3004429839 (U01DA043098)		45,139
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00010479		25,990
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	R01DA045705		23,209
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF MINNESOTA	P004140308		134
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF NEVADA, RENO	SUB UNR-16-07(DA038185)		22,873
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF NEW MEXICO	028453-87K7		50,403
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	PENN 77737		140,782
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD00005403		22,901
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	87935113		34,038
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF TEXAS AT EL PASO	UTEP-E0105		93,360
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER	UTMD-77954		26,040
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	PO: 0000002007 GMO 200605		200,843
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF UTAH	SUB 10045277-02(DA043775)		10,841
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC10591		(11,862)
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Leung 326097 (DA053048)		7,795
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-18-234-MOD-2		5,457
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-20-115		83,329
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	WESTAT	SUB 6410-S-02 (HHSN27120160000		85,956
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	YALE UNIVERSITY	GR106902 (CON-80001833)		33,164
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	YALE UNIVERSITY	GR107284 (CON-80002106)		60,501
93.279	DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		PASS-THROUGH	YALE UNIVERSITY	YALE-77657		63,792
93.283	CENTERS FOR DISEASE CONTROL AND PREVENTION INVESTIGATIONS AND TECHNICAL ASSISTANCE	DIRECT		DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)			1,556,646
93.283	CENTERS FOR DISEASE CONTROL AND PREVENTION INVESTIGATIONS AND TECHNICAL ASSISTANCE	PASS-THROUGH		APIN PUBLIC HEALTH INITIATIVES LTD./GTE	21- 2147		20,436
93.283	CENTERS FOR DISEASE CONTROL AND PREVENTION INVESTIGATIONS AND TECHNICAL ASSISTANCE	PASS-THROUGH		HARVARD PILGRIM HEALTH CARE	HPHC-205795		519,714
93.283	COVID-19 - CENTERS FOR DISEASE CONTROL AND PREVENTION INVESTIGATIONS AND TECHNICAL ASSISTANCE	COVID-19	PASS-THROUGH	AMERICAN COLLEGE HEALTH ASSOCIATION, INC.	81D15-052		2,197
93.283	COVID-19 - CENTERS FOR DISEASE CONTROL AND PREVENTION INVESTIGATIONS AND TECHNICAL ASSISTANCE	COVID-19	PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	00052960		4,211
93.286	COVID-19 - DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)			666,766
93.286	COVID-19 - DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	COVID-19	PASS-THROUGH	EMORY UNIVERSITY	LAMP POCT		107,861
93.286	COVID-19 - DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	COVID-19	PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS CHAN MEDICAL SCHOOL	OSP/WPM33765-UCSF		3,351,870
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	DIRECT		DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)			30,009,209
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	PASS-THROUGH		ALBANY RESEARCH INSTITUTE, INC.	HRI-05615100		4,182,735
93.286	TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	PASS-THROUGH		BOSTON UNIVERSITY	4500003479		8,663
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	PASS-THROUGH		CANON MEDICAL RESEARCH USA, INC.	A20-3822		97,029
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	PASS-THROUGH		CASE WESTERN RESERVE UNIVERSITY	RESS14345		34,481
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	PASS-THROUGH		CASE WESTERN RESERVE UNIVERSITY	R01EB028635		31,787
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	PASS-THROUGH		CELSENSE, INC.	SUB 20194123(EB023761)		268,227
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	PASS-THROUGH		COLD SPRING HARBOR LABORATORY	64700313 - PO# 921066-SV		416,845
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	PASS-THROUGH					(7,441)

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93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	EMORY UNIVERSITY	A370053	125,185	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	EMORY UNIVERSITY	SUB A306146(EB028350)	186,174	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	EMORY UNIVERSITY	SUB A398050(EB027690)	712	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	EMORY UNIVERSITY	A248488	38,718	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	EMORY UNIVERSITY	A459414	131,590	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	FLORIDA INSTITUTE OF TECHNOLOGY	GR-232508	13,565	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	GE GLOBAL RESEARCH	401115242	307,358	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	INDIANA UNIVERSITY	SUB BU-4629710(EB023685)	600	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	INFRADEMR, LLC	I-216882	8,840	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	INFRALASE, INC.	II-52473	(30,034)	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	MAGNETIC INSIGHT INC.	050057	191,055	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	65002243	(6,682)	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	VU2193-01	99,942	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	NYU LANGONE HEALTH SYSTEM	000454	27,233	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	RADIATION MONITORING DEVICES, INC.	C22-0	41,995	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	RICE UNIVERSITY	R01EB030520	82,093	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	SOFIE BIOSCIENCES, INC	A132313	(1,665)	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	STANFORD UNIVERSITY	61799594-131106	172,920	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	STANFORD UNIVERSITY	61947242-44290	133,820	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	STANFORD UNIVERSITY	62416670-154145	279,216	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	STANFORD UNIVERSITY	SUB 61456675-125287 (EB018302)	125,479	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	STANFORD UNIVERSITY	R01EB028646	157,901	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	SUB 237053 (3U54EB015408-08...	127,704	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS	R1238994	66,902	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	UNIVERSITY OF ARIZONA	482236	41,001	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	UNIVERSITY OF HAWAII SYSTEM	KA1770	5,773	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	20589 Request:2261	20,953	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS CHAN MEDICAL SCHOOL	SUB OSP2016194 (EB0119936)	33,673	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS CHAN MEDICAL SCHOOL	Sub OSP-SUB102-UCSD (EB019936)	40,588	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS CHAN MEDICAL SCHOOL	WA00433491/OSP2016197	9,458	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS CHAN MEDICAL SCHOOL	CHAN-77670	23,828	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	UNIVERSITY OF MEMPHIS	A21-0019-5002	242,561	

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93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	UNIVERSITY OF MEMPHIS	A21-0019-5005	9,549	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	ND-77928	92,888	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	144548312	21,693	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	YALE UNIVERSITY	U01EB029811	589,461	
93.286	DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH		PASS-THROUGH	ZONAGEN INC.	20130924-38	(54,303)	
93.297	TEENAGE PREGNANCY PREVENTION PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,052,841	421,552
93.297	TEENAGE PREGNANCY PREVENTION PROGRAM		PASS-THROUGH	EDUCATION, TRAINING & RESEARCH ASSOCIATES	052176	56,378	
93.297	TEENAGE PREGNANCY PREVENTION PROGRAM		PASS-THROUGH	POLICY AND RESEARCH L.L.C.	1-TP2AH000070	78,167	
93.300	Covid-19 - NATIONAL CENTER FOR HEALTH WORKFORCE ANALYSIS	COVID-19	PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	MAYO-77660	6,823	
93.300	NATIONAL CENTER FOR HEALTH WORKFORCE ANALYSIS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		514,438	53,889
93.300	NATIONAL CENTER FOR HEALTH WORKFORCE ANALYSIS		PASS-THROUGH	HEALTH RESEARCH, INC.	4925-04	151,151	
93.300	NATIONAL CENTER FOR HEALTH WORKFORCE ANALYSIS		PASS-THROUGH	PUBLIC HEALTH INSTITUTE	PO 0000003312	33,363	
93.307	COVID-19 - MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,059,458	264,934
93.307	COVID-19 - MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH	COVID-19	PASS-THROUGH	MEHARRY MEDICAL COLLEGE	170406MFL060	25,428	
93.307	COVID-19 - MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH	COVID-19	PASS-THROUGH	NYU LANGONE HEALTH SYSTEM	17-A0-00-007341-01	1,802	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		15,512,321	1,529,552
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	ALBERT EINSTEIN COLLEGE OF MEDICINE	SUB:31106A (MD011389)	52,610	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	122876	26,526	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE	20193801	(24,151)	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE	20204201	211,686	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	000014409-A (MD017344)	189,791	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	308648	6,411	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG017666-01) MD016278	9,885	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	DREXEL UNIVERSITY	900109	416,865	209,283
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	EMMA PENDLETON BRADLEY HOSPITAL	712766	35,726	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	FLORIDA INTERNATIONAL UNIVERSITY	000255	15,419	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	OOS030491-UCSF	103,896	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	SP0041722-PROJ0011727:A03	292,913	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	PACIFIC INSTITUTE FOR RESEARCH AND EVALUATION	SUB 0784 (MD010292)	31,179	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	PACIFIC INSTITUTE FOR RESEARCH AND EVALUATION	SUB 20174985(MD011648)	(992)	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	PALO ALTO VETERANS INSTITUTE FOR RESEARCH, INC.	PALO-E0952	15,032	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	RAND CORPORATION	9920160089:1	16,109	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	RAND CORPORATION	9920180006:02	23,941	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62567278-180400	44,736	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY19.001.005	49,093	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	UM-77672	65,815	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	CNVA00056157 (130212-2)	186,376	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	USC-77897	57,707	
93.307	MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	10046254-01:1	2,332	
93.310	COVID-19 - TRANS-NIH RESEARCH SUPPORT	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		11,756,776	2,863,958
93.310	COVID-19 - TRANS-NIH RESEARCH SUPPORT	COVID-19	DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		11,426	
93.310	TRANS-NIH RESEARCH SUPPORT		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		71,314,878	16,785,472
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	S19-0019	309,653	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	S20-0002	54,487	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	S20-0003	189,919	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	D9203-053	39,944	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	D9203-000	3,196	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	CARNEGIE MELLON UNIVERSITY	1090661-437189	231,357	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	CARNEGIE MELLON UNIVERSITY	A19-0387-002	107,035	

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93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	DREXEL UNIVERSITY	A18-2664	381,918	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	DREXEL UNIVERSITY	A18-2666	36,101	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	DREXEL UNIVERSITY	900169	159,139	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	DUKE UNIVERSITY	A03-2352	41,087	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	DUKE UNIVERSITY	A032346	5,113	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	DUKE UNIVERSITY	A033822	6,431	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	DUKE UNIVERSITY	A137795	11,311	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	DUKE UNIVERSITY	A035262	14,358	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	DUKE UNIVERSITY	A035256	13,962	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	DUKE UNIVERSITY	A033815	33,631	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	DUKE UNIVERSITY	DUKE 77644	12,015	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	GLADSTONE INSTITUTES	R2500-A	42,012	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	GLADSTONE INSTITUTES	SC-00034	38,017	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	HARVARD UNIVERSITY	sub 153351.5122467.0303 (OD...	77,768	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	HARVARD UNIVERSITY	U01HG007530	41,057	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	JACKSON LABORATORY, THE	3UM1D0023222-0853	17,870	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	A20-0357	120,225	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	KAISER FOUNDATION RESEARCH INSTITUTION	U01CA1	26,139	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	KECK GRADUATE INSTITUTE OF APPLIED LIFE SCIENCES	GR750019UCR	40,673	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	LUDWIG INSTITUTE FOR CANCER RESEARCH	Sub CLEV_243601-6 (N5112503)	5,306	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	11B	53,555	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	7C	26,184	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	MCW13BFP13962	200,275	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	U24HG010423	19,716	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	U24HG01423	1,343	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	A20-2921	181,883	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	A20-2938	148,747	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	MCW26AFP13962	74,942	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	MCW25AFP13962	211,552	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	17ABFP1	295,679	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	A22-23	126,042	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	MOREHOUSE SCHOOL OF MEDICINE	U01UCI003	24,269	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	NEW YORK UNIVERSITY	16-A0-00-006256-01	264,255	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	NEW YORK UNIVERSITY	19-A0-00-1003237	189,397	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	NYU LANGONE HEALTH SYSTEM	NYU-77009	49,274	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	OCHIN INC	OCHIN-77683	80,216	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	OHIO STATE UNIVERSITY	60072959	209,877	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, TH	SUB R1112800(CA221244)	7,465	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	RHODE ISLAND HOSPITAL	7137538	382,331	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	SAK INSTITUTE FOR BIOLOGICAL STUDIES	SUB NONE (EB021247)	94	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	SAK INSTITUTE FOR BIOLOGICAL STUDIES	SUB P1057617 (DA047731)	(58,532)	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	THE CALIFORNIA MEDICAL INNOVATIONS INSTITUTE, INC.	SUB 2019-003 (OT20D028203)	87,456	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	Sub 5-53190 (OD023176)	(2)	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY COLLEGE LONDON	WT3837444	39,393	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF BUEA	002	176,164	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF CAPE TOWN	UCT32417	68,207	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	093670-17188	1,768,969	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF IOWA	Sub S00564-02 (AG05133)	40,702	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	SUB 1802271 UMB REF. NO.: 3...	94,423	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	OD025459	960,763	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF NEW MEXICO	3RGH1	279,114	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5111421	609,666	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF ROCHESTER	416985-G/UR FAO GR510571-CYC4	175,644	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	135974483	5,278	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	Sub 111515702 (CA229445)	59,474	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	20180611	332,453	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	89820331:2	7,590	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC10689	1,275,465	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11544	114,078	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000302	1,440,706	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000001791 (NS111688)	26,459	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000237:1	123,488	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	00000002174	36,652	
93.310	TRANS-NIH RESEARCH SUPPORT		PASS-THROUGH	WAKE FOREST UNIVERSITY	U54DAO49113	30,180	
93.317	COVID-19 - EMERGING INFECTIONS PROGRAMS	COVID-19	PASS-THROUGH	HELUNA HEALTH	000854	69,285	
93.317	EMERGING INFECTIONS PROGRAMS		PASS-THROUGH	HELUNA HEALTH	050998	91,771	
93.317	EMERGING INFECTIONS PROGRAMS		PASS-THROUGH	HELUNA HEALTH	235.013.920	40,783	
93.317	EMERGING INFECTIONS PROGRAMS		PASS-THROUGH	HELUNA HEALTH	0008.0110	25,359	
93.317	EMERGING INFECTIONS PROGRAMS		PASS-THROUGH	HELUNA HEALTH	0008.01	24,608	
93.323	COVID-19 - EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	20-11036	276,893	
93.323	COVID-19 - EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)	COVID-19	PASS-THROUGH	HELUNA HEALTH	0187.3308	159,291	
93.323	COVID-19 - EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)	COVID-19	PASS-THROUGH	HELUNA HEALTH	018701	349,712	
93.323	EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	20-11098	30,018	
93.323	EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)		PASS-THROUGH	HELUNA HEALTH	0187.2607	87,349	
93.323	EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)		PASS-THROUGH	HELUNA HEALTH	051084	95,780	
93.323	EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)		PASS-THROUGH	HELUNA HEALTH	052366	231,537	
93.323	EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)		PASS-THROUGH	HELUNA HEALTH	0187.1809	120,738	
93.323	EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)		PASS-THROUGH	HELUNA HEALTH	0187.3608	8,845	
93.350	COVID-19 - NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		123,965	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		44,830,886	3,754,335
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS THROUGH	INSTITUTE FOR SYSTEMS BIOLOGY	Sub 2016.0004(TR020206)	(27,596)	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	ACRIGEN BIOSCIENCES, INC.	MACKENZIE	147,108	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	7000001567	12,554	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	BOSTON UNIVERSITY	4500003367	37,766	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	000183680	26,079	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001704220:3	(927)	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	SUP1601	406	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	COLLABORATIONS PHARMACEUTICALS, INC.	SUB 20171862(TR002084)	20	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	DUKE UNIVERSITY	19-27168	500	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	GEORGIA TECH RESEARCH CORPORATION	SUB AWD-102041-G1 (EB024322)	26,478	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	HARVARD UNIVERSITY	0415	45,806	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-D511	20,438	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	INSTITUTE FOR SYSTEMS BIOLOGY	2020.0001	344,383	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	J. CRAIG VENTER INSTITUTE	SUB JCVI-16-006(TR001801)	(101,005)	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	J. CRAIG VENTER INSTITUTE	SUB JCVI-16-007 (TR001801)	(1,575)	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	J. CRAIG VENTER INSTITUTE	SUB JCVI-16-008(TR001801)	(1,462)	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	KOLON WORLD TOUR	2020-1405	(22,877)	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	MEDICAL UNIVERSITY OF SOUTH CAROLINA	Sub A20-0049-S003(TR002628)	199,738	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	NEXILICO INC.	051913	19,952	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	SEATTLE CHILDREN'S HOSPITAL	12191SUB	60,134	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	SEATTLE CHILDREN'S HOSPITAL	12511SUB	29,150	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	STANFORD UNIVERSITY	6210388813558	(1,426)	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	STANFORD UNIVERSITY	62103888-135580	83,942	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-53685 (TR002550)	126,163	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	Sub 5-54768(TR002550)	17,159	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	A21-436	54,625	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	UNIVERSITY OF CINCINNATI	009904-018:3	5,404	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	UNIVERSITY OF MICHIGAN	U01 TR003409	75,511	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00013276	30,585	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	0055353 (128885-20)	1,983	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	SUB 0055353 (128885-16) (TR001	(36,096)	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	SUB AWD00000243 (134445-4) ...	77,733	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD00000243 (132627-38)	(1,323)	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD00000243 (132627-39)-CYC1	(2,838)	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	119680831	(12,191)	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-75D23	39,119	
93.350	NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-21-0493	3,703	
93.351	COVID-19 - RESEARCH INFRASTRUCTURE PROGRAMS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		250,272	
93.351	RESEARCH INFRASTRUCTURE PROGRAMS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		34,856,467	1,097,244
93.352	CONSTRUCTION SUPPORT		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,175,990	224,331
93.352	CONSTRUCTION SUPPORT		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	Sub 20188-44-372 (DE028227)	215,464	
93.352	CONSTRUCTION SUPPORT		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	Sub FY20.904.003 (CA244688)	47,704	
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		7,729,691	1,285,705
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	BOSTON UNIVERSITY	4500002986	15,378	
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	BOSTON UNIVERSITY	4500002989	(72,526)	
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	SUB 3201460821 (CA233285)	78,399	
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	CITY OF HOPE	011639	22,362	
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	1205401	470,865	
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	1207101	232,119	
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	0001004846	437,145	
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	0001004851	379,710	
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	0001071511	4,572	
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	RNG210680-UCLA-01	45,331	

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93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	NATIONWIDE CHILDREN'S HOSPITAL	700179-0623-00	934,521	
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	SOFIE BIOSCIENCES, INC	2R44CA216539	(2,178)	
93.353	21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT		PASS-THROUGH	UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER	TCIM-D8874	(8)	
93.355	CERTIFIED HEALTH IT SURVEILLANCE CAPACITY AND INFRASTRUCTURE IMPROVEMENT COOPERATIVE AGREEMENT PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		97,817	
93.359	NURSE EDUCATION, PRACTICE QUALITY AND RETENTION GRANTS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		10,533	24,269
93.360	BIOMEDICAL ADVANCED RESEARCH AND DEVELOPMENT AUTHORITY (BARDA), BIODEFENSE MEDICAL COUNTERMEASURE DEVELOPMENT		PASS THROUGH	CELLICS THERAPEUTICS, INC.	Sub (4500003622 / IDSEP160030)	6,063	
93.360	BIOMEDICAL ADVANCED RESEARCH AND DEVELOPMENT AUTHORITY (BARDA), BIODEFENSE MEDICAL COUNTERMEASURE DEVELOPMENT		PASS THROUGH	VAXCYTE, INC.	Sub 20191655 (4500003905)	6,082	
93.360	BIOMEDICAL ADVANCED RESEARCH AND DEVELOPMENT AUTHORITY (BARDA), BIODEFENSE MEDICAL COUNTERMEASURE DEVELOPMENT		PASS-THROUGH	AVITA MEDICAL AMERICAS LLC	CTP006-1	13,924	
93.360	BIOMEDICAL ADVANCED RESEARCH AND DEVELOPMENT AUTHORITY (BARDA), BIODEFENSE MEDICAL COUNTERMEASURE DEVELOPMENT		PASS-THROUGH	CELLICS THERAPEUTICS, INC.	Sub (4500003622 / IDSEP160030)	339,541	
93.360	BIOMEDICAL ADVANCED RESEARCH AND DEVELOPMENT AUTHORITY (BARDA), BIODEFENSE MEDICAL COUNTERMEASURE DEVELOPMENT		PASS-THROUGH	MICROBEDX INC.	210618	(227,747)	
93.360	BIOMEDICAL ADVANCED RESEARCH AND DEVELOPMENT AUTHORITY (BARDA), BIODEFENSE MEDICAL COUNTERMEASURE DEVELOPMENT		PASS-THROUGH	VAXCYTE, INC.	Sub 20191655 (4500003905)	240,432	
93.360	COVID-19 - BIOMEDICAL ADVANCED RESEARCH AND DEVELOPMENT AUTHORITY (BARDA), BIODEFENSE MEDICAL COUNTERMEASURE DEVELOPMENT	COVID-19	PASS-THROUGH	REGENERON PHARMACEUTICALS, INC.	6R88-COV-2040	41,003	
93.361	COVID-19 - NURSING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0014114B	22,413	
93.361	NURSING RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		5,675,353	813,702
93.361	NURSING RESEARCH		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	7000001104	59,327	
93.361	NURSING RESEARCH		PASS-THROUGH	BROWN UNIVERSITY	00001843	56,079	
93.361	NURSING RESEARCH		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	5458206	63,521	
93.361	NURSING RESEARCH		PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	1300204	11,141	
93.361	NURSING RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	16-A1-00-005413-01	11,019	
93.361	NURSING RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	61835904-125082	70,295	
93.361	NURSING RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	6274440	39,430	
93.361	NURSING RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	233238	20,218	
93.361	NURSING RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY17.782.004	(221)	
93.361	NURSING RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY19.961.002	14,455	
93.361	NURSING RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	FY20.961.003	12,458	
93.361	NURSING RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	3004518092	70,443	
93.361	NURSING RESEARCH		PASS-THROUGH	UNIVERSITY OF TENNESSEE	191328-200626-UCHA:1	28,150	
93.361	NURSING RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0014114A	2,066	
93.361	NURSING RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11333	(97)	
93.361	NURSING RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-20-274	79,372	
93.361	NURSING RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-20-275	33,663	
93.365	SICKLE CELL TREATMENT DEMONSTRATION PROGRAM		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	CIBDX2015HRSA-BCHO-6	(26,835)	(33,899)
93.365	SICKLE CELL TREATMENT DEMONSTRATION PROGRAM		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	sub CIBDX2021HRSA-UCSD-08 ...	14,258	
93.365	SICKLE CELL TREATMENT DEMONSTRATION PROGRAM		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	CIBDX2014HRSA	110,210	
93.387	NATIONAL AND STATE TOBACCO CONTROL PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		566,875	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		31,743,645	4,921,257
93.393	CANCER CAUSE AND PREVENTION RESEARCH		DIRECT	UC LAWRENCE BERKELEY LABORATORY		22,413	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	62301.2008722.669302	29,236	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	CALIBERMRI INC.	#P18230-001 WILMES	111,043	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	CARNEGIE MELLON UNIVERSITY	1090617-430332	47,052	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001684117	17,469	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	1454643:1	(4,928)	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	CITY OF HOPE	Sub 20201618(CA199277)	245,899	33,018
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	CITY OF HOPE	SUB 51974-2001759.669301 (CA19	(8,685)	1
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	201333-05	114,121	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	SUB 205190 (R01 CA212854)	8,236	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	204040	61,668	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	1201301	81,818	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	1288601	44,031	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	1201302:1	191,827	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	1320501	71,918	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	DARTMOUTH COLLEGE	R1479	40,711	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A031195	53,020	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC.	ECOG-D8370	4,751	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	0001044610	35,625	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	0001062737	3,903	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	GEORGETOWN UNIVERSITY	411513_GR412884-USCF	(7,858)	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	GEORGETOWN UNIVERSITY	411842_GR411064-UCLA:7	181,176	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	GEORGETOWN UNIVERSITY	424353_GR411040-UCLA	179,606	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	HARVARD PILGRIM HEALTH CARE	AH000632	(2,265)	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2002945254	3,856	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	KAISER FOUNDATION RESEARCH INSTITUTION	P01CA233432	144,428	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	KAISER FOUNDATION RESEARCH INSTITUTION	RNG211065-UCD-01	142,887	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	210094-02	112,468	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	210542-03	(28,750)	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	RNG211477	25,872	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	KAISER PERMANENTE WASHINGTON HEALTH RESEARCH INSTITUTE	SUB (CA23732) RNG210201-UCSD	43,660	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	USF-225625	42,774	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	600472 2UCSF	96,877	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	NU-77625	36,583	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	PALO ALTO VETERANS INSTITUTE FOR RESEARCH, INC.	PALO-77661	15,187	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	PONCE MEDICAL SCHOOL FOUNDATION, INC.	1R21CA233449-01A1	(517)	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	RADIABEAM TECHNOLOGIES, LLC	NIH LRLR	56,050	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	ROCKEFELLER UNIVERSITY	R01CA204127	33,107	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	0879	53,383	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB A22-0020-5001 (CA258221)	29,824	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	59856-12856-UCSF	217,565	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	SEATTLE INSTITUTE FOR BIOMEDICAL AND CLINICAL RESEARCH	CK11-UCD2	149,421	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	SEATTLE INSTITUTE FOR BIOMEDICAL AND CLINICAL RESEARCH	R01CA249307	(12,683)	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	61959228-130956	17,151	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000519160-005	15,794	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	Sub 0005275777-SC011 (CA248439)	14,328	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	THOMAS JEFFERSON UNIVERSITY	SUB 080-30000-527901 (CA21552	(10,418)	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	TULANE UNIVERSITY OF LOUISIANA	TUL-HSC-557431-19/20	46,020	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	R01CA092596	(6,305)	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	582014	9,930	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	UA-77593	35,634	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	FY21.206.001	250,983	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF HAWAII AT MANOA	KA1363	70,707	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF HAWAII AT MANOA	KA1488	324,555	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF IOWA	1001588781	66,528	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF MIAMI	OS000000717	24,765	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	3004171785:3	27,286	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	R21CA251343	86,823	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	SUB S15810(CA227122)	135,698	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH TEXAS	GF00017-1	18,833	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD000002840 (135006-1)	111,293	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	100794433	35,047	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	107857258	347,770	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	131234068	16,708	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	USC-77616	24,906	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	USC-77680	35,212	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER	00003027	(1,003)	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER	3001235049	37,662	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER	SUB 3001543561 (CA243554)	196,508	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	G-D8436	172,357	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	1006125803	651	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF VERMONT	AWD00000046SUB00000012	259,619	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF VERMONT	AWD00000046SUB00000015	12,445	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF VIRGINIA	UVA-77011	1,551	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWCS11970	89,844	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWCS12809	13,967	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UW-D9048	64,424	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWCS12783	33,546	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GUPTA 323320REV (CA22286)	(457)	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	VIRGINIA COMMONWEALTH UNIVERSITY	FP00010400_SA001	8,356	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY	WFUHS 114040:5	(3,686)	
93.393	CANCER CAUSE AND PREVENTION RESEARCH		PASS-THROUGH	YESHIVA UNIVERSITY	31190A	112,927	
93.393	COVID-19 - CANCER CAUSE AND PREVENTION RESEARCH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,037,466	258,364
93.393	COVID-19 - CANCER CAUSE AND PREVENTION RESEARCH	COVID-19	PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	53465-I	13,649	
93.393	COVID-19 - CANCER CAUSE AND PREVENTION RESEARCH	COVID-19	PASS-THROUGH	CHAPMAN UNIVERSITY	500533-SUB1	(71)	
93.393	COVID-19 - CANCER CAUSE AND PREVENTION RESEARCH	COVID-19	PASS-THROUGH	COLUMBIA UNIVERSITY	17(GG015997-01)	65,212	
93.393	COVID-19 - CANCER CAUSE AND PREVENTION RESEARCH	COVID-19	PASS-THROUGH	KAISER FOUNDATION RESEARCH INSTITUTION	210094-01	18,446	
93.393	COVID-19 - CANCER CAUSE AND PREVENTION RESEARCH	COVID-19	PASS-THROUGH	MEMORIAL SLOAN-KETTERING CANCER CENTER	BD527671	13,315	
93.393	COVID-19 - CANCER CAUSE AND PREVENTION RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF MICHIGAN	3004700012	19,024	
93.393	COVID-19 - CANCER CAUSE AND PREVENTION RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5116923	30,620	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		42,489,753	5,003,361
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	ACOUSTIC MEDSYSTEMS, INC.	A131852	306,681	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	61244.2005803.669301	5,042	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500002285:002	27,149	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500002917:001	147,677	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500002992	66,730	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	BROWN UNIVERSITY	Sub 00001163 (CA159954)	59,444	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	CAPSULOMICS, LLC	001 STEITZ	53,833	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	SUB RESS12506 (CA198892)	(42)	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	sub: 1801598 (CA260591)	69,916	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	SUB 1812501	187,748	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	1941047	15,916	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	1931495	3,758	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	321072	(1,839)	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	CITY OF HOPE	61596.2006600.669301	37,034	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	R01CA214912	25,697	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	EASTERN VIRGINIA MEDICAL SCHOOL	S161681-3	99,545	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC.	ECOG-1032387	993	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	FILTRO MEDICAL INC.	2021NIHSTTR01	121,095	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	0001039239	87,508	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	SUB 20195234 (CA249765)	262,458	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	KAISET PERMANENTE DIVISION OF RESEARCH	KFR0000152_UCLA-01	48,518	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	NATIONWIDE CHILDREN'S HOSPITAL	700216-0321-00	(1,174)	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	NRG ONCOLOGY	B5B06-JORDAN	1,132,235	48,989
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	NRG ONCOLOGY	SUB NCTN05-MAYADEV (CA180868)	26,334	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	OMNIOX INC.	A17-0353	524,223	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	RENSSELAER POLYTECHNIC INSTITUTE	A20-0130-5001	113,837	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 59510-12770-UCSD (CA19810	13,052	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 59953-12989 (CA128814)	16,711	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	SRI INTERNATIONAL	PO64804	6,986	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62545742-159296	71,892	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62703383-189734	39,024	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	THOMAS JEFFERSON UNIVERSITY	SUB 080-30000-522601(CA194307)	22,252	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	TRACE-ABILITY, INC	P054424	(7,803)	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF BRITISH COLUMBIA	R01CA221918	15,065	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	1556823	(2,041)	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	1400685A	45,058	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00013602	40,389	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	SUB H005023201 (CA203348)	16,008	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	SUB P006911701 (CA214550)	33,234	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	N008522701	5,522	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	9014911 (131141-3)	(137)	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	133935849	25,258	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	H39719	31,062	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS AT SAN ANTONIO	169243/168546	506,247	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER	00005316	178,575	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC10730	12,417	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11764	222,239	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY	UNIV62064	30,459	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-22-0321	32,102	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	WINSANTOR INC	SUB 20183497(CA213555)	9,440	
93.394	CANCER DETECTION AND DIAGNOSIS RESEARCH		PASS-THROUGH	YALE UNIVERSITY	GR111003 (CON-80002819)	134,933	
93.394	COVID-19 - CANCER DETECTION AND DIAGNOSIS RESEARCH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		515,735	
93.394	COVID-19 - CANCER DETECTION AND DIAGNOSIS RESEARCH	COVID-19	PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	SUB 30056284 (CA260591)	23,320	
93.394	COVID-19 - CANCER DETECTION AND DIAGNOSIS RESEARCH	COVID-19	PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	U54CA260591	23,813	
93.394	COVID-19 - CANCER DETECTION AND DIAGNOSIS RESEARCH	COVID-19	PASS-THROUGH	LEIDOS, INC.	SUB 20CTA-DM0012(75N91019D000:	1,115,763	
93.395	CANCER TREATMENT RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		42,393,950	4,577,758
93.395	CANCER TREATMENT RESEARCH		PASS THROUGH	CEDARS-SINAI MEDICAL CENTER	SUB 1684541 (S01CA208851-05)	95	
93.395	CANCER TREATMENT RESEARCH		PASS THROUGH	UNIVERSITY OF MINNESOTA	SUB P008201201(CA234228)	15,701	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	ABG LAB LLC	ONC201 KLINE	1,736	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	A133068	19,788	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	SUB - 60808.2006130.669301 ...	55,955	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	BIOMIMETIX JV, LLC	D4074-053	54,565	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	BIOMIMETIX JV, LLC	D4074-000	1,412	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	BRIDGEME BIOSCIENCES, INC.	A136667	65,685	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	D4072-053	5,473	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	D4072-000	1,377	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CANCER TARGETED TECHNOLOGY	A132666	224,351	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	SUB 1684541 (5R01CA208851-05)	22,301	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	1620448:1	122,275	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	2004-05 VO	7,608	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	GRAEBER 8018	(5,461)	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	20133700 -RSUB	(409)	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	A133874	9,691	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	GRT-00000636	187,446	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	Sub ACC1L633 (CA201788)	(413)	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	20200007	12,291	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	FP26529_SUB153	49,812	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	FP26529_SUB328_01	5,850	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	BO843-000	3,116	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	B0843-053	7	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	B3659-053	7,614	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	B3659-000	3,172	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	U10CA18088	22,190	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	B5135	(2,468)	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	A128833	7,941	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	FP15221SUB88201	(837)	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	UM1CA228823	9,670	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	ACCL1633	811	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	D4499-053	12,288	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	D4499-000	4,547	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	FP00025505_SUB104_01	28,171	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	A138239	27,011	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	20177442	5,097	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CHILDREN'S ONCOLOGY GROUP	20177495	60,051	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CITY OF HOPE	51183.2000123.669399	6,410	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CITY OF HOPE	A21-1749	48,632	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CITY OF HOPE	52284.2002184.669302	15,067	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CITY OF HOPE	A20-1587	418,395	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CITY OF HOPE	61984.2005759.669302	12,215	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	3(GG015224-01)	31,206	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	86782-11173	269,260	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	19-M49	1,442,176	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	20-M103	27,584	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	IBIS REPRODUCTIVE HEALTH	RE050868ANU	27,123	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	INFORMATION MANAGEMENT SERVICES, INC.	A19-0810-002	572	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	ABTC 1801	1,050	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	ABTC 1802	(1,170)	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	MAYO-B0709	(639)	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	20192846	60,981	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	MEMORIAL SLOAN-KETTERING CANCER CENTER	C21949119	99,369	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	MEMORIAL SLOAN-KETTERING CANCER CENTER	R01CA2	65,841	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	MONTEFIORE MEDICAL CENTER	13748	163,024	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	MONTEFIORE MEDICAL CENTER	13748-K	94,827	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	MONTEFIORE MEDICAL CENTER	13756	317,061	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	MONTEFIORE MEDICAL CENTER	AMC-D8674	88,304	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	MONTEFIORE MEDICAL CENTER	MMC-D9350	186,190	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	F7618-02-06	(402)	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60045307UCSF	4,956	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	NRG ONCOLOGY	NRG-FENG-GY6	13,321	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	NRG ONCOLOGY	NRG-GANZ-GY6	2,161	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	NRG ONCOLOGY	NRG-TEWARI-GY6	14,160	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	NRG ONCOLOGY	NRG-WENZEL-GY6	8,535	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	NRG ONCOLOGY	NRG-GU008	18,604	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	NRG ONCOLOGY	NRG-GU007	6,093	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	NRG ONCOLOGY	U10CA180868	7,500	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	NRG ONCOLOGY	A19-4633	(5,495)	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	NSABP FOUNDATION, INC.	TFD041-137	2,619	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	SWOG-201304-1	11,082	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	A19-0609	63,647	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	A19-0641	38,078	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	A19-0611	8,236	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1004086-001	5,091	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1004086001UCDAVIS	15,084	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1013080-006	81,989	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1013080	15,369	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	PALM THERAPEUTICS, INC.	SUBAWARD NONE (CA250702)	85,885	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	PANDOMEDX	A18-2619	45,429	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	PUBLIC HEALTH INSTITUTE	AR03276 POH02800	32,133	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	PUBLIC HEALTH INSTITUTE	AR03419	19,606	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	PUBLIC HEALTH INSTITUTE	AR03446 POH 2891	13,429	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	SRI INTERNATIONAL	R01CA214515	33,874	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	ST. JUDE CHILDREN'S RESEARCH HOSPITAL	11287230-7744212	26,737	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	ST. JUDE CHILDREN'S RESEARCH HOSPITAL	112569019-7945663	17,065	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	ST. JUDE CHILDREN'S RESEARCH HOSPITAL	11287270	27,075	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	61251710-118307	(2,411)	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	61658251-117899	(376)	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	SWOG	20161228	1,250	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	THE EMMES COMPANY, LLC	30078719	232,643	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	THE EMMES COMPANY, LLC	1632602	58,175	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	THE EMMES COMPANY, LLC	251370A-6	184,821	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	THE EMMES COMPANY, LLC	ZUM1CA121947-14	34,096	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	THE EMMES COMPANY, LLC	ZUM1CA121947	89,951	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	THE EMMES COMPANY, LLC	20223365	407,071	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	236149	136,285	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	THE THERANOSTEC INC.	A21-2237	1,014	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	UNIVERSITY OF FLORIDA	UFDSPO0011465	28,382	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00014072	17,633	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	N005494302	21,975	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	SUB P008201201(CA234228)	201,544	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	P009501301	38,129	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	580818	738	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	0049527(127522-1)	(1,128)	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	A18-0911-002	336,153	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GB10562.159043	176,558	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	R21CA246359	19,334	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC82642	57,577	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Coffey 323632 85838851 (CA	9,935	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LIU 323394 (CA222866)	63,748	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MARTINEZ 323367 (CA222866)	2	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	VIVREON BIOSCIENCES, LLC	VB-5573166	21	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-19-267	187,193	
93.395	CANCER TREATMENT RESEARCH		PASS-THROUGH	YALE UNIVERSITY	M16A12481(A10651)	(1,929)	
93.395	COVID-19 - CANCER TREATMENT RESEARCH	COVID-19	PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1013080_SWOG_UCIRVINE-CYC1	147,200	
93.395	COVID-19 - CANCER TREATMENT RESEARCH	COVID-19	PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1013080_UCIRVINE	32,390	
93.395	COVID-19 - CANCER TREATMENT RESEARCH	COVID-19	PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	236688	19,812	
93.395	COVID-19 - CANCER TREATMENT RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF NEVADA, LAS VEGAS/UNLV RESEARCH FOUNDATION	17-22AY-01	28,683	
93.396	CANCER BIOLOGY RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		55,654,180	3,391,432
93.396	CANCER BIOLOGY RESEARCH		PASS THROUGH	NORTHERN ARIZONA UNIVERSITY	SUB 1004495-01(1U24CA248454..	6,441	
93.396	CANCER BIOLOGY RESEARCH		PASS THROUGH	PURDUE UNIVERSITY	SUB 11001003-030 (CA254402)	51,057	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	61504.2007369,669301	37,152	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500003967	191,142	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	CADENA MEDICAL LLC	246853-01A1	595	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	COLD SPRING HARBOR LABORATORY	R01CA237413	66,260	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	1(G0012799-01)	177,592	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A035045	20,335	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	GLYTR THERAPEUTICS, INC.	GLYTR-77667	43,176	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	INSTITUTE FOR SYSTEMS BIOLOGY	2018.0005	111,382	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2004998191	8,989	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	sub 20051-01-144 (CA248...	94,097	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	SUB 20051-01-150-384 (CA248...	9,652	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	LEIDOS BIOMEDICAL RESEARCH, INC.	SUB 20X026F(75N91019D0024)	(594)	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	LEIDOS BIOMEDICAL RESEARCH, INC.	20204343	18,544	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SUB 5710004012 (CA184898)	(34)	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	sub s5493, PO #648614 (CA25...	92,096	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	NORTHERN ARIZONA UNIVERSITY	SUB 1004495-01(1U24CA248454..	187,765	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	NVIGEN INC.	75N9120C00052UASC	32,756	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	NYU LANGONE HEALTH SYSTEM	SUB 17-A1-00-0007144 (CA21698)	255,103	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	PURDUE UNIVERSITY	SUB 11001003-030 (CA254402)	308,830	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	RADIATION MONITORING DEVICES, INC.	SUB 4102-85283 (CA221289)	26,711	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	SAGE BIOWORKS	C20-35	28,961	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	ITCRUCLA	IITCRUCLA	150,446	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB-60111_13533 (CA217625)	441	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	ST. JUDE CHILDREN'S RESEARCH HOSPITAL	ARID58	(209)	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62067977-121581	178,394	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62369039-139615	13,719	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	A22-0335-001	32,998	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 00051784-SC004 (CA258248)	65,266	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	578075	112,498	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	UPENN WEAVER	210,973	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	170255/1702054	42,076	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER	00003639	14,995	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER	SUB 00003638 (CA196403)	1,336	
93.396	CANCER BIOLOGY RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	SUB UWSC9764(CA211310)	13,466	
93.396	COVID-19 - CANCER BIOLOGY RESEARCH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		86,564	23,544
93.397	CANCER CENTERS SUPPORT GRANTS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		39,820,064	1,234,694
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	ALBERT EINSTEIN COLLEGE OF MEDICINE	311883	65,433	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	ARIZONA STATE UNIVERSITY	ASUB000000010	39,294	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	CHARLES R. DREW UNIVERSITY OF MEDICINE AND SCIENCE	18-19-JV-G007740A-UCLA	63,285	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	CORNELL UNIVERSITY	78542-10760	9,405	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	1205201	147,373	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	EMORY UNIVERSITY	A234170	107,873	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	INDIANA UNIVERSITY	8201	(6,754)	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	INDIANA UNIVERSITY	IN-4689878-UCSF	(44,659)	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	INDIANA UNIVERSITY	9149	50,189	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	INDIANA UNIVERSITY	9150	7,103	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	INDIANA UNIVERSITY	9152	10,722	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	INDIANA UNIVERSITY	9154	3,551	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	INDIANA UNIVERSITY	9202	207,520	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	INSTITUTE FOR SYSTEMS BIOLOGY	2018.0013	29,446	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	NEW MEXICO STATE UNIVERSITY	U54CA132383	1,234	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60040958UCSF	(787)	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1010517_UCBERKELEY_A5	59,276	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1010517	29,425	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	RESEARCH FOUNDATION OF CUNY ON BEHALF OF BROOKLYN COLLEGE	SUB CM00004266-00(CA132378)	37,409	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00010024	79,225	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	CNAV00046110 (133246-1)	(2,123)	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	166577/165362	82,087	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER	3001880140	11,854	
93.397	CANCER CENTERS SUPPORT GRANTS		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-19-171	(1,670)	
93.397	COVID-19 - CANCER CENTERS SUPPORT GRANTS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		698,965	192,175
93.397	COVID-19 - CANCER CENTERS SUPPORT GRANTS	COVID-19	PASS-THROUGH	RTI INTERNATIONAL	ACTIV-4b	10,000	
93.398	CANCER RESEARCH MANPOWER		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		13,502,791	
93.398	CANCER RESEARCH MANPOWER		PASS-THROUGH	PURDUE UNIVERSITY	11000929-026	32,915	
93.398	CANCER RESEARCH MANPOWER		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	158716/158715	677	
93.398	COVID-19 - CANCER RESEARCH MANPOWER	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		3,459	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.398	COVID-19 - CANCER RESEARCH MANPOWER	COVID-19	PASS-THROUGH	LEIDOS BIOMEDICAL RESEARCH, INC.	20-0013	247,666	
93.399	CANCER CONTROL		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,464,606	922,651
93.399	CANCER CONTROL		PASS-THROUGH	ALLIANCE NCTN FOUNDATION	202010112	182,453	
93.399	CANCER CONTROL		PASS-THROUGH	BAY AREA TUMOR INSTITUTE	No. 06 NCORP-CHRC GOLDEN	299,705	
93.399	CANCER CONTROL		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	CALGB/CA136 ANDREADIS	(83,439)	
93.399	CANCER CONTROL		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	20141967	11,869	
93.399	CANCER CONTROL		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	2UG1CA189955	13,810	
93.399	CANCER CONTROL		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	U61CA189955	18,872	
93.399	CANCER CONTROL		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	FP00028127_SUB1	6,307	
93.399	CANCER CONTROL		PASS-THROUGH	NRG ONCOLOGY	NCORP-GOG0237-GY6	143,895	
93.399	CANCER CONTROL		PASS-THROUGH	NRG ONCOLOGY	NCORP-WENZEL-GY7	5,626	
93.399	CANCER CONTROL		PASS-THROUGH	NRG ONCOLOGY	NRG-5578539	63,064	
93.399	CANCER CONTROL		PASS-THROUGH	NRG ONCOLOGY	Yom-GY6	18,000	
93.399	CANCER CONTROL		PASS-THROUGH	NRG ONCOLOGY	A135966	189,312	41,130
93.399	CANCER CONTROL		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	A20-2986	16,146	
93.399	CANCER CONTROL		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	SWOG S1320	8,425	
93.399	CANCER CONTROL		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1014562_SWOG	88	
93.399	CANCER CONTROL		PASS-THROUGH	PUBLIC HEALTH INSTITUTE	AR04843	28,298	
93.399	CANCER CONTROL		PASS-THROUGH	SWOG	20213915	970	
93.399	CANCER CONTROL		PASS-THROUGH	UNIVERSITY OF ARIZONA	584766	78,011	
93.399	COVID-19 - CANCER CONTROL	COVID-19	PASS-THROUGH	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC.	SUG1CA189828-05-UC1-CYC1	18,503	
	COVID-19 - STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATION'S HEALTH						
93.421	PARTNERSHIPS TO IMPROVE AND PROTECT THE NATION'S HEALTH		PASS-THROUGH	AMERICAN COLLEGE OF PREVENTIVE MEDICINE, INC. (THE)	20221423	29,876	
	COVID-19 - STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATION'S HEALTH						
93.421	PARTNERSHIPS TO IMPROVE AND PROTECT THE NATION'S HEALTH		PASS-THROUGH	ASSOCIATION OF UNIVERSITY CENTERS ON DISABILITIES INCORPORAT	25-21-8815	10,174	
	STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATION'S HEALTH						
93.421	STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATION'S HEALTH		PASS-THROUGH	NATIONAL FOUNDATION FOR THE CENTERS FOR DISEASE CONTROL AND PREVENTION	050828	3,413	
	STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATION'S HEALTH						
93.421	IMPROVING THE HEALTH OF AMERICANS THROUGH PREVENTION AND MANAGEMENT OF DIABETES AND HEART DISEASE AND STROKE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	18-10948	86,655	
	ACL NATIONAL INSTITUTE ON DISABILITY, INDEPENDENT LIVING, AND REHABILITATION RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		58,264	
93.433	ACL NATIONAL INSTITUTE ON DISABILITY, INDEPENDENT LIVING, AND REHABILITATION RESEARCH		PASS-THROUGH	BRANDEIS UNIVERSITY	403691	82,888	
93.433	ACL NATIONAL INSTITUTE ON DISABILITY, INDEPENDENT LIVING, AND REHABILITATION RESEARCH		PASS-THROUGH	NEW ENGLAND COLLEGE OF OPTOMETRY	3740-09-30-19UCLA	103,199	
93.433	ACL NATIONAL INSTITUTE ON DISABILITY, INDEPENDENT LIVING, AND REHABILITATION RESEARCH		PASS-THROUGH	SHEPHERD CENTER, INC.	SHEP-20-0002	144,918	
93.433	ACL NATIONAL INSTITUTE ON DISABILITY, INDEPENDENT LIVING, AND REHABILITATION RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A005198604	6,272	
93.433	COVID-19 - ACL NATIONAL INSTITUTE ON DISABILITY, INDEPENDENT LIVING, AND REHABILITATION RESEARCH	COVID-19	PASS-THROUGH	REHABILITATION INSTITUTE OF CHICAGO	7246	92,451	
93.433	COVID-19 - ACL NATIONAL INSTITUTE ON DISABILITY, INDEPENDENT LIVING, AND REHABILITATION RESEARCH	COVID-19	PASS-THROUGH	REHABILITATION INSTITUTE OF CHICAGO	8163	113,790	
93.470	ALZHEIMER'S DISEASE PROGRAM INITIATIVE (ADPI)		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		(2,537)	
93.504	COVID-19 - FAMILY TO FAMILY HEALTH INFORMATION CENTERS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		9,801	
93.556	PROMOTING SAFE AND STABLE FAMILIES		PASS-THROUGH	OREGON DEPARTMENT OF EDUCATION	14386LEA	354,839	
93.583	REFUGEE AND ENTRANT ASSISTANCE WILSON/FISH PROGRAM		PASS-THROUGH	COLUMBIA UNIVERSITY IRVING MEDICAL CENTER	SUB 17(GG014929) (NS078059)	(4)	
93.589	REFUGEE ASSISTANCE, NATURALIZATION AND CITIZENSHIP ACTIVITIES		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		9,296	
93.592	FAMILY VIOLENCE PREVENTION AND SERVICES/DISCRETIONARY		PASS-THROUGH	SOUTH BAY COMMUNITY SERVICES	30096969	51,344	
93.595	WELFARE REFORM RESEARCH, EVALUATIONS AND NATIONAL STUDIES		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		99,928	
93.610	HEALTH CARE INNOVATION AWARDS (HCIA)		PASS-THROUGH	CHILDREN'S NATIONAL HEALTH SYSTEM	30002606-07	(2,665)	
93.630	DEVELOPMENTAL DISABILITIES BASIC SUPPORT AND ADVOCACY GRANTS		PASS-THROUGH	WAYNE STATE UNIVERSITY	WSU22048	35,703	
93.631	DEVELOPMENTAL DISABILITIES PROJECTS OF NATIONAL SIGNIFICANCE		PASS-THROUGH	ALZHEIMER'S ASSOCIATION CALIFORNIA SOUTHLAND CHAPTER	90ADPI0035-01-00	71,391	
93.632	UNIVERSITY CENTERS FOR EXCELLENCE IN DEVELOPMENTAL DISABILITIES EDUCATION, RESEARCH, AND SERVICE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		518,385	
93.648	CHILD WELFARE RESEARCH TRAINING OR DEMONSTRATION		PASS-THROUGH	UNIVERSITY OF NEBRASKA	24-0520-0261-005	127,428	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	16IAOWEBSTER 0618	104	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	18-3029	(4,540)	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	MCM LABORATORIES INCORPORATED	900159 19169	130,300	
93.687	MATERNAL OPIOID MISUSE MODEL		PASS-THROUGH	KAI SER PERMANENTE DIVISION OF RESEARCH	RNG209336-01	(15,593)	
93.701	TRANS-NIH RECOVERY ACT RESEARCH SUPPORT		PASS-THROUGH	THE EMMES COMPANY, LLC	20101609	380	
93.732	MENTAL AND BEHAVIORAL HEALTH EDUCATION AND TRAINING GRANTS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		965,465	49,277
93.738	PPHF: RACIAL AND ETHNIC APPROACHES TO COMMUNITY HEALTH PROGRAM FINANCED SOLELY BY PUBLIC PREVENTION AND HEALTH FUNDS		PASS-THROUGH	PUBLIC HEALTH ADVOCATES	20190083	104,132	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.747	ELDER ABUSE PREVENTION INTERVENTIONS PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		161,843	
93.758	PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT FUNDED SOLELY WITH PREVENTION AND PUBLIC HEALTH FUNDS (PPHF)		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	18-10193	445,665	
93.767	CHILDREN'S HEALTH INSURANCE PROGRAM (CHIP)		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	75P0119F37008	39,315	
93.833	SUPPORTING AND MAINTAINING A SURVEILLANCE SYSTEM FOR CHRONIC KIDNEY DISEASE (CKD) IN THE UNITED STATES		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		329,471	8,699
93.834	CAPACITY BUILDING ASSISTANCE (CBA) FOR HIGH-IMPACT HIV PREVENTION		PASS-THROUGH	HELUNA HEALTH	0592.0102	353,681	
93.837	CARDIOVASCULAR DISEASES RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		111,499,670	12,770,611
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS THROUGH	RADY CHILDREN'S HOSPITAL-SAN DIEGO	sub S1072-1002532-SA1 (HL14517	19,376	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS THROUGH	STANFORD UNIVERSITY	SUB 61289425-123492 (HL132225)	538	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	ALBERT EINSTEIN COLLEGE OF MEDICINE	Sub 311257(HL140976)	47,716	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	ALBERT EINSTEIN COLLEGE OF MEDICINE	SUB 31148A (HL146132)	60,963	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	62379.2007349.669304	116,510	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500003027	79,269	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	120816	(16,184)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	123632	23,461	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	SUB 117712 (HL134811)	74,457	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	SUB 120938 (HL034594)	269,880	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	SUB 225707 (HL123336)	4,689	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CALIFORNIA NORTHEAST STATE UNIVERSITY, LLC	VYAS-20	14,328	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	S18-0011	23,669	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CARE NEW ENGLAND HEALTH SYSTEM	SUB 5001381(HL130591)	9,676	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	RE5515115	14,062	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	Sub RE5515663 (HL149409)	19,526	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	RE5515085	165,615	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	SUB 1569406 (HL143227)	19,494	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001562752:1	79,835	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	1583893:1	17,721	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	1670409	15,263	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	1847785	195,463	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	20194079	18,447	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001979	9,783	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CHAPMAN UNIVERSITY	77643-053	119,130	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CHAPMAN UNIVERSITY	77643-000	67,904	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	Sub GENFD0001709863 (HL148673)	12,461	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	20192539	2,197	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	SUB 138275 (HL131003)	21,497	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	SUB 138281 (HL131003)	2,996	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	3200170321:3	10,627	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	962219-RSUB	9,494	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S MERCY HOSPITAL, THE	SUB 601164 (HL148463)	12,560	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	R01HL132831	336,559	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	SUB 1 GG013356-01(HL138468)	190,928	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	7(GG011046-04):3	(539)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY IRVING MEDICAL CENTER	1(GG01591)	2,574	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY IRVING MEDICAL CENTER	1(GG01786)	52,682	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	DREXEL UNIVERSITY	800193	14,667	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	DREXEL UNIVERSITY	77950	71,632	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	SUB A030955 (HL13753)	32,893	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	EFFECTORBIO, INC.	A19-1474	16,563	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	SUB A429570 (HL146147)	394,339	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	Sub 0001055252 (HL151885)	31,075	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	0001040906	38,093	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	GE GLOBAL RESEARCH	SUB 401148496 (HL153250)	231,896	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	GEORGIA TECH RESEARCH CORPORATION	RG884-G1	15,474	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	SC-00002	489,522	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	SC-00041	60,217	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	SC-00006	30,186	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	Sub GENFD0002119879 (HL162367)	30,506	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	HEALTHCORE, INC.	20151999	11,116	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	HUNTINGTON MEDICAL RESEARCH INSTITUTES	6085-18-01-CYC1	231,228	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	Sub 0255-7877-4609 (HL127624)	5,419	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	ISM5-D9388	259,163	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	IN4687648UCLA:1	(85,630)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	KAISER FOUNDATION RESEARCH INSTITUTION	R01DK118455	34,518	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	RNG209677-01	131,791	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	KAISER-E0003	17,604	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	KAISER PERMANENTE WASHINGTON HEALTH RESEARCH INSTITUTE	Sub 2018103333 (HL125440)	11,707	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	KENT COUNTY MEMORIAL HOSPITAL	KENT CO-09687	47,501	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	Sub 22817-44-393 (HL136275)	494,455	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	SUB 22817-50-393 (HL136275)	89,925	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	LOMA LINDA UNIVERSITY	2160056-UCLA:2	41,948	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	LUNDQUIST INSTITUTE FOR BIOMEDICAL INNOVATION AT HARBOR-UCLA	SUB 31470-01 (HL146666)	14,008	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	LUNDQUIST INSTITUTE FOR BIOMEDICAL INNOVATION AT HARBOR-UCLA	22002633	10,848	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	UNI-239863-01/PO #66648734	(1,894)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	CSF-215432	10,520	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	MC GUIRE RESEARCH INSTITUTE, INC.	20192242	1,700	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	MEMORIAL HOSPITAL OF RHODE ISLAND	5001191	(27)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NATIONAL BUREAU OF ECONOMIC RESEARCH, INC	41448.UCSF	209,402	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NEW ENGLAND RESEARCH INSTITUTES, INC.	SUB 20193775 (HL135691)	(451)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NEW ENGLAND RESEARCH INSTITUTES, INC.	Sub 30075648 (HL068270)	22,809	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NEW ENGLAND RESEARCH INSTITUTES, INC.	Sub Non (HL107407)	29,620	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NEW ENGLAND RESEARCH INSTITUTES, INC.	G140030	91	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NEW ENGLAND RESEARCH INSTITUTES, INC.	201500084	10,682	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NEW ENGLAND RESEARCH INSTITUTES, INC.	UCSF#124544	42,301	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	20AO-S1-1001394	(1,781)	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	NIH 0275-01	208,081	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	sub JOTV2359-01 (HL151564)	6,067	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	Sub KIZ2200-05 (HL144707)	142,602	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60057139 UCSF	85,241	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	NU-D8783	25,204	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60059342UCSF	186,283	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	NU-E0650	503,796	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	OHIO STATE UNIVERSITY	GR119805	656	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	OHIO STATE UNIVERSITY	GR124599	1,817	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	OPTIMA INTEGRATED HEALTH, INC	OPTIMA-D5842	(10,507)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	OPTIMA INTEGRATED HEALTH, INC	OPTIMA-D7634	31,764	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1015340	94,626	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	PROFUSA, INC.	A135140	179,334	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	PUBLIC HEALTH INSTITUTE	PHI-D7466	7,884	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	PURDUE UNIVERSITY	11001052-015	18,321	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	RADY CHILDREN'S HOSPITAL-SAN DIEGO	Sub S1072-1002532-SA1 (HL14517	449,693	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	RAND CORPORATION	SCON-00000309	83,878	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	RTI INTERNATIONAL	10-312-0217457-66032L	128,145	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	1794	268,064	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	Sub 60062-12921-UCSD (HL131474	39,898	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	60062-12920	17,140	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-UCLA1-S-10-00026	4,147	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	61335463-121980	(8,120)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	61786701-132591	24,393	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	Sub (HL13225-04)	37,939	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	Sub 61289425-123492 (HL132225)	(9,409)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	Sub 61324668-122625(HL130840)	30,580	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	SUB 62114678-131050 (HL141712)	46,942	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	SUB 62479930-118781 (HL083359)	159,321	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62060911-135894	3,984	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62163872-136790	133,066	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	61925511-132591	90,298	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	A20-3260	185,596	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	P01H141084	772,436	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	Sub 62371248-139973 (HL149134)	132,220	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	STANFORD-E1125	8,067	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62584451-198729	19,506	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62606640-154473	39,041	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	SUB M1902042 (HL145534)	24,494	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	TEXAS HEART INSTITUTE	20191695	386,935	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	SUB 231822 (HL140224)	86,664	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	20152908:6	24,041	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	230744:2	6,691	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	237424	2,317	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	237449	112,517	106,017
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	MGH, Havir	(39,679)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000518828-002	170,322	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000503570-007	20,451	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000530812-SC013	2,918	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	TOURO COLLEGE AND UNIVERSITY SYSTEM	T000085C	(791)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	381130	(3,143)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF CINCINNATI	010575-008	788	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF HOUSTON	R-21-0096	32,402	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF ILLINOIS CHICAGO	sub-18147-HL148756	20,318	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION, INC.	011506	32,380	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	1701192	3,010	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MIAMI	SUB OS00000264(HL148880)	12,597	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MIAMI	R56H146133	12,281	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUB SKUP000012912 (SUBK000008..)	112,313	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00016707	7,612	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	UG3H1L45269	97,455	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	3004659121	13,288	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK000012345	5,089	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK000016628	1,025	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	UM-77620	79,100	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	N006187401	21,840	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	N006187440:4:2	8,049	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	R01H1L38539	114,114	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	MINN-D9533	11,767	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NEW MEXICO	5R01HL131696	1,076	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	SUB 5116340 (HL147853)	175,091	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5123729	35,791	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5121395	34,475	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	574952	10,947	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	CNVAA00062106 (132385-1)	52,646	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	PITT-E0434	1,390	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	6143-1210-00-A	49,169	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	13248014	271,899	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	142010096	15,246	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	143660508	74,273	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT TYLER	SC18-01	4,327	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	10059879-02	98,813	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	BPO18370	(1,744)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UNIV WASH 10377	346	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN SYSTEM	R01H141214	111,263	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000669	385,464	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY MEDICAL CENTER	SUB VUMC 80057 (HL149948)	74,840	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY	100720-114489-5	(136)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-21-372	49,077	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-21-259	44	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-21-416/PO2940941	4,491	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	WAYNE STATE UNIVERSITY	W5U20046	7,686	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	YALE UNIVERSITY	A135510	(210)	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	YALE UNIVERSITY	GR102535 (CON-80001209)	31,416	
93.837	CARDIOVASCULAR DISEASES RESEARCH		PASS-THROUGH	YALE UNIVERSITY	GK000124 (CON-80000470):4	(9,631)	
93.837	COVID-19 - CARDIOVASCULAR DISEASES RESEARCH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,201,048	1,540
93.838	COVID-19 - LUNG DISEASES RESEARCH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		164,392	235,882
93.838	COVID-19 - LUNG DISEASES RESEARCH	COVID-19	PASS-THROUGH	CORNELL UNIVERSITY	220367-14	23,768	
93.838	COVID-19 - LUNG DISEASES RESEARCH	COVID-19	PASS-THROUGH	NEW YORK UNIVERSITY	17-A-01	15,641	
93.838	COVID-19 - LUNG DISEASES RESEARCH	COVID-19	PASS-THROUGH	NEW YORK UNIVERSITY	1701 LEWINN	7,452	
93.838	COVID-19 - LUNG DISEASES RESEARCH	COVID-19	PASS-THROUGH	NYU LANGONE HEALTH SYSTEM	PREG-02-21	260,470	
93.838	COVID-19 - LUNG DISEASES RESEARCH	COVID-19	PASS-THROUGH	SAGE BIONETWORKS	SAGE E0684	25,776	
93.838	COVID-19 - LUNG DISEASES RESEARCH	COVID-19	PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	236620	98,423	
93.838	COVID-19 - LUNG DISEASES RESEARCH	COVID-19	PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	1238	(8,083)	
93.838	COVID-19 - LUNG DISEASES RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUB SUBK00013688-005 (HL156...)	22,581	
93.838	LUNG DISEASES RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		50,357,060	7,920,115
93.838	LUNG DISEASES RESEARCH		PASS THROUGH	PROTEOMICS RESEARCH INSTITUTE FOR SYSTEMS MEDICINE	sub 720605 (HL119165)	343	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	ANN & ROBERT H. LURIE CHILDREN'S HOSPITAL OF CHICAGO	R34HL153474	16,917	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	ARKANSAS CHILDREN'S HOSPITAL RESEARCH INSTITUTE	4469 LEWINN	23,803	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	AUGUSTA UNIVERSITY	33346-2	55,499	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500003790	396,920	9,914
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	118660 (Sub)[5R01HL139634-04]	24,868	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	122869	380,998	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	20201646	196,753	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	25948	75,469	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	160039:1	173,182	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	1600340:1	516,088	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CELL BIOLOGICS, INC.	PA-16-303	2,137	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CHEST FOUNDATION	D9567-053	12,187	9,953
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	A20-0097-001	150,084	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	315648	34,794	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	3200930819:1	9,807	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	OS000263 / Project #311013	50,001	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	Sub 311013 (U24HL148865)	33,568	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG010919-05):5	2,000	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	9(GG015835-01)	155,158	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	8(GG015000-01)	25,090	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY IRVING MEDICAL CENTER	4(GG015835-01)	84,334	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	COPD FOUNDATION	001-AMEND03	(3,152)	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	COPD FOUNDATION	002-AMEND1:1	17,799	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	COPD FOUNDATION	002 LAZARUS	4,154	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	COPD FOUNDATION	001 LAZARUS	(2,743)	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	COPD FOUNDATION	D4073	39,617	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	COPD FOUNDATION	D4102	11,202	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	192243-15	17,469	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	UG3HL145266	24,010	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	211919-8	16,798	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	212535	56,124	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	210851-4	56,063	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	191156-22	15,799	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	EFFECTORBIO, INC.	A22-0626	25,901	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A618842	60,208	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	FLORIDA INTERNATIONAL UNIVERSITY	000569	762,642	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	HENRY FORD HEALTH SYSTEM	B11194	66,430	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	SUB 0255-2931-4609 (HL137219)	(65,303)	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	R01HL148247	(1,396)	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	8564-UCD	5,172	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2003614631	136,058	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	KAER BIOTHERAPEUTICS CORPORATION	A132775	(29,600)	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	LUNDQUIST INSTITUTE FOR BIOMEDICAL INNOVATION AT HARBOUR-ULCA	21001448	164,968	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	MCW-5608298	2,883	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	MCW-77611	28,631	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	NATIONAL JEWISH HEALTH	2011603_UCSF SUB	226,467	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	NATIONAL JEWISH HEALTH	2016001-UCSF	83,631	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	NATIONAL JEWISH MEDICAL AND RESEARCH CENTER	SUB 2020072608 (HL089897)	1,041,950	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	NATIONAL JEWISH MEDICAL AND RESEARCH CENTER	20125602_UCDVIS SUB	19,840	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	Sub 08-01 (OT2HL161847)	16,175	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	SUB PED-01-21 (OT2HL161847-01)	332,666	57,758
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	NYU-D9044	9,631	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	NYU-D9073	11,277	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	NYU-E0229	551,503	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	NYU LANGONE HEALTH SYSTEM	OT2HL156812	267,221	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	OHIO STATE UNIVERSITY	SUB 60057621(HL126945)	24,324	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	OHIO STATE UNIVERSITY	SUB 60061829 (HL138116)	9,417	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	PENNSTATE STATE UNIVERSITY	R01HL139881	86,266	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	PENNSTATE STATE UNIVERSITY	HL109086	5,751	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	PROTEOMICS RESEARCH INSTITUTE FOR SYSTEMS MEDICINE	sub 720605 (HL119165)	104,803	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	RESPIRA LABS, INC.	A135704	(12,053)	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	RTI INTERNATIONAL	OT2HL156812	(27,845)	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 60062-12923-UCSD (HL131474)	51,297	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62346239-131009	35,974	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	5152823	57,028	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	237165	64,167	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	13301sc	1,940	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	234260	66,326	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	135274	22,902	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	2020AA005105	1,718	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	al	235	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	238915	248,748	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	GHC-E0147	6	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	GHC-E7227	37,000	46,882
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	580310	4,711	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	580311	(204)	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	U01HL130045	78,821	

**University of California
Schedule of Expenditures of Federal Awards**

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	604960	23,001	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY 21.032.005	295,102	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY20.032.002	6,287	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00010623	32,240	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	011615	66,181	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	3004647871	4,880	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A005956202	173,670	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5114508	124,850	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5111459	35,598	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	U24HL138998	131,318	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5114474-H3	123,412	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA SYSTEM	5111458	52,544	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA SYSTEM	SUB 5114474-H3UCSDHILL (HL1389	191,598	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	571558	14,568	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	577454	108,340	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	UG3HL141736	(9)	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	38154	5,774	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	583172	3,817	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	R01HL159	10,172	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	A19-0879-001	29,416	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	P01HL103455	(1,881)	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	U01HL128954	28,255	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	PITT-E0381	21,612	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC85404	(392)	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000001323	32,984	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC 44301	26,393	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC 44299-4	(398)	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-20-479	172,179	
93.838	LUNG DISEASES RESEARCH		PASS-THROUGH	WAYNE STATE UNIVERSITY	WSU22078	50,748	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		9,403,734	931,033
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	70225-13430-UCSD (HL131474)	6,493	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	ALBERT EINSTEIN COLLEGE OF MEDICINE	SUB 311584 (HL148005)	1,666	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	ANN & ROBERT H. LURIE CHILDREN'S HOSPITAL OF CHICAGO	901516-UCI	87,469	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION	127909	(2,343)	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION	12807909ZSF20183	30,000	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	KOH-20011	62,398	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	CLEVELAND CLINIC LERNER COLLEGE OF MEDICINE	1359-SUB	(195)	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	CLEVELAND CLINIC LERNER COLLEGE OF MEDICINE	CCF21259850	73,888	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	STARt Argentine	46,446	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	0001043092	(9,172)	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	NATIONAL MARROW DONOR PROGRAM	MNDP-D4314	26,186	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	OHIO STATE UNIVERSITY	60072058	19,389	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	OHIO STATE UNIVERSITY	GR124199(SPC-1000005204)	151,473	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	PHOENIXIA BIOSCIENCES, INC.	002 SINGER	99,076	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	70225-13425-UCSD (HL131474)	143,627	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	70225-13430-UCSD (HL131474)	219,122	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SBMRI-59650	243,787	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	SCRIPPS HEALTH	(5-54618)1 P01 HL152958-01A1	570,058	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000524452-SC015	(228)	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	UNIVERSITY OF IOWA	S00823-01	68,331	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	P005741601-CYC1	17,120	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	579472	86,891	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	579830	13,020	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD000000392 (132911-6)	6,608	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	SUB AWD00002642 (135011-6) ...	341	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	PITT-D3498	1,428	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA PARMER 323779 098290001(HL	91,707	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-D4364	24,751	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH	Covid-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		94,664	
93.839	BLOOD DISEASES AND RESOURCES RESEARCH	Covid-19	PASS-THROUGH	NEW YORK UNIVERSITY	SUB NCT04505774 (HL156812)	87,540	
93.840	COVID-19 - TRANSLATION AND IMPLEMENTATION SCIENCE RESEARCH FOR HEART, LUNG, BLOOD DISEASES, AND SLEEP DISORDERS	Covid-19	PASS-THROUGH	RTI INTERNATIONAL	20203331	15,821	
93.840	COVID-19 - TRANSLATION AND IMPLEMENTATION SCIENCE RESEARCH FOR HEART, LUNG, BLOOD DISEASES, AND SLEEP DISORDERS	Covid-19	PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00015164	81,795	
93.840	COVID-19 - TRANSLATION AND IMPLEMENTATION SCIENCE RESEARCH FOR HEART, LUNG, BLOOD DISEASES, AND SLEEP DISORDERS	Covid-19	PASS-THROUGH	UNIVERSITY OF MICHIGAN	00013615-005	7,501	
93.840	TRANSLATION AND IMPLEMENTATION SCIENCE RESEARCH FOR HEART, LUNG, BLOOD DISEASES, AND SLEEP DISORDERS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		2,995,582	517,984
93.840	TRANSLATION AND IMPLEMENTATION SCIENCE RESEARCH FOR HEART, LUNG, BLOOD DISEASES, AND SLEEP DISORDERS		PASS-THROUGH	NATIONAL MARROW DONOR PROGRAM	#1904 SHIMANO	1,899	
93.840	TRANSLATION AND IMPLEMENTATION SCIENCE RESEARCH FOR HEART, LUNG, BLOOD DISEASES, AND SLEEP DISORDERS		PASS-THROUGH	NYU LANGONE HEALTH SYSTEM	OT2HL156812	28,631	
93.840	TRANSLATION AND IMPLEMENTATION SCIENCE RESEARCH FOR HEART, LUNG, BLOOD DISEASES, AND SLEEP DISORDERS		PASS-THROUGH	YALE UNIVERSITY	DAI-D6694	93,280	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		61,364,951	5,573,790
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	ALLANDER BIOTECHNOLOGIES, LLC	A22-3	6,397	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	AUGUSTA UNIVERSITY	Sub 32307-32 (DK115255)	(12,309)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	7000001020	286,891	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	BETH ISRAEL DEACONESS MEDICAL CENTER	SUB 01029372(DK111529)	(5,801)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500002312	116,495	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	SUB 118780 (DK112940)	37,973	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	20163020:04	3,431	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	CARTILAGE, INC.	77603-015	25,491	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	CARTILAGE, INC.	77603-000	6,628	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	SUB R5515415 (DK094157)	6,240	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	RES513	(31,369)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	SUB RGF011685-B (DK110793)	11,153	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S MERCY HOSPITAL, THE	Sub 18-0019-CR (DK066143)	10,268	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	CLEVELAND CLINIC LERNER COLLEGE OF MEDICINE	CCF21339819	62,668	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	SUB 2 GG015235-01(DK061734)	(45,340)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A030245	(2,873)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	EAST CAROLINA UNIVERSITY	SUB AWD-20-0851-S001 (AR078...	62,333	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	EPIGEN BIOSCIENCES, INC.	SUB 20180686	(255,228)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	EPIGEN BIOSCIENCES, INC.	SUB 20190461(AR072546)	307	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	SUB 20-M14 (AR075304)	52,036	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	HEBREW SENIORLIFE INC.	90100	73,500	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	HOLOBIOME, INC.	SUB R44DK120181	(2,918)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	SUB 8426-UCSD (DK121378)	291,251	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	JAEB CENTER FOR HEALTH RESEARCH, INC.	SUB 30015853(DK108612)	282,930	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2003547464:2	53,163	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	LOYOLA UNIVERSITY OF CHICAGO	Sub 206882 (DK106898)	48,246	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	LOYOLA UNIVERSITY OF CHICAGO	SUB 208397 (DK111848)	11,803	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	LUDWIG INSTITUTE FOR CANCER RESEARCH	SUB 242001-05003B (DK105541)	(39)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	MASS GENERAL BRIGHAM INCORPORATED	20131088	2,096	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	THE-214784	2,180	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	MEDICAL UNIVERSITY OF SOUTH CAROLINA	A20-0247-5001	37,612	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	MIRIAM HOSPITAL, THE	sub 710-7147150 (DK117857)	37,109	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	MYOGENE BIO LLC	1622985	129,249	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	MYOGENE BIO LLC	20202949	(4,331)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	19-A1-00-1000432	494,752	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	NORTHWELL HEALTH INC	500678UCSF	24,918	5,468
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	SUB 60046311 UCSD (DK092217)	32,498	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	SUB 60050287 UCSD (DK117824)	6,192	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	OHIO STATE UNIVERSITY	1000006280	11,010	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	ORGANOVO, INC.	SUB 20182413 (DK115242)	419,023	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	SONOVOL, INC.	SUB UCSD.LIVER.2019 (DK112492)	(16,072)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	SPINAL SINGULARITY, INC.	SUB 20183439 (DK109865)	25,355	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62231656-135310	72,777	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	STEADMAN PHILIPSON RESEARCH INSTITUTE	2021-03	183,340	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	THE BROAD INSTITUTE, INC.	SUB 5216277-5500000942 (DK1055	149,221	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	THE BROAD INSTITUTE, INC.	Sub 5216286-5500001263(DK1055	(10,643)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-53455 (DK112927)	781	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-53822 (DK117872)	216,809	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	TUFTS UNIVERSITY	U102814	14,103	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY17.873.001	(15,694)	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	SUB 15.090.005 (AR067681)	33,463	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	SUB FY19.957.001 (AR070879)	37,787	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00001923	3,998	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF FLORIDA	UFDSP00012127	49,766	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00002440	59,532	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00002816	79,794	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00002814	49,772	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF IOWA	SUB S00272-01(DK116624)	30,632	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00005856	(739)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00007880	81,654	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5121076	226,572	22,117
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5121385	13,552	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA SYSTEM	5121077	38,073	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	SUB 576045 (S01DK116005-02 RE	7	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	583143	2,157	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	SUB 6143-1147-00A (DK110621)	(8)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	102517834	96,990	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	102070633:1	86,587	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	87118183:2	90,694	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	SUB 785K610(DK088925)	454,409	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA BRYAN 320632 (AR060772)	23,073	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA BRYAN, RU LIU 322799(AR075	14,571	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA CHANG 322720(AR075825)	161,225	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA IX 323252(DK098234)	17,688	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MA 322861(DK075825)	46,790	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Rivera-Nieves (323671) 098	2,342	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA-Mudaliar 323301 (DK098246)	69,723	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	VIRGINIA COMMONWEALTH UNIVERSITY	Sub PD304070-SC106315 (DK1059	34,621	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	WASHINGTON STATE UNIVERSITY	Sub 128293 G003777 (DK082325)	17,921	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-20-71 (DK115502)	(1,397)	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-19-181-MOD-1	46,276	
93.846	ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH		PASS-THROUGH	XLOCK BIOSCIENCES, LLC	A20-2613	197,504	
93.846	COVID-19 - ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		119,360	
93.846	COVID-19 - ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	COVID-19	PASS-THROUGH	BROWN UNIVERSITY	00001093	9,361	
93.846	COVID-19 - ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	COVID-19	PASS-THROUGH	SEATTLE CHILDREN'S HOSPITAL	12129SUB	126,173	
93.846	COVID-19 - ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTH CAROLINA	19-3792-CYC1	38,262	
93.847	COVID-19 - DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	SUB 0001827185 (DK123446)	154,564	
93.847	COVID-19 - DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001776501	678	
93.847	COVID-19 - DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	LOMA LINDA UNIVERSITY	2190166-UCI-1	46,592	
93.847	COVID-19 - DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0013601A	44,330	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		99,293,560	7,339,283
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	SUB GENFD0001858891 (DK125490)	13,505	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS THROUGH	THE CALIFORNIA MEDICAL INNOVATIONS INSTITUTE, INC.	sub CALM12-2020-001 (DK125657)	1,077	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	ANN & ROBERT H. LURIE CHILDREN'S HOSPITAL OF CHICAGO	UCSF ROSENTHAL	31,422	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	ARBOR RESEARCH COLLABORATIVE FOR HEALTH	ARBO41916	692	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	AUGUSTA UNIVERSITY	32307-66	16,314	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	AUGUSTA UNIVERSITY	32307-83	24,771	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	AUGUSTA UNIVERSITY	Sub 35235-15 (703757/5U24DK...	74,970	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	AUGUSTA UNIVERSITY	35235-6	(156)	

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93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	AUGUSTA UNIVERSITY	30835-24		(1,056)
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	AUGUSTA UNIVERSITY	U24DK097771		27,113
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	AUGUSTA UNIVERSITY	35235-11		64,061
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	AVIARA PHARMACEUTICALS, INC.	30126384		40,497
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	BIOPICO SYSTEMS	77654-053		91,028
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500001991:004		(9)
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	BUCK INSTITUTE FOR RESEARCH ON AGING	SA4800		21,746
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	28000004128		(9,136)
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	280201011-S202		5,408
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	D9122-053		252,974
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	D9122-000		155,452
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	280201026		21,759
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	sub RESS16478 (DK116723)		19,767
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	Sub RESS16367 (DK094157)		193,615
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	RESS		232,452
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001405364:003		(5,010)
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001776169		15,442
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001776233		11,352
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001799421		8,511
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	2010361		38,447
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001897358		4,755
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	77656-052		5,669
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	77656-000		3,231
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	SUB GENFD0001858891 (DK125490)		213,909
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	137610		10,429
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S MERCY HOSPITAL, THE	18-0018		280
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S MERCY HOSPITAL, THE	15PRE22230011		7,596
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S MERCY HOSPITAL, THE	18-0020 KU		15,852
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CITY OF HOPE	010305		35,709
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	CITY OF HOPE	R01DK119590		19,308
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG015836-01)		388,532
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	6(GG015009-01)		58,089
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	SUB 1(GG017615-01) (DK127778)		311,126
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	2GG01648901		353
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	1GG01643401		86,717
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A542006		19,406
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	FLORIDA STATE UNIVERSITY	R01948-CYC1		(2,630)
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	30105086		41,424
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	SUB S-GRD1213-KR40 (DK098246)		13,308
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	SC-00025		210,115
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	SC-00038		(2,710)
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	HARVARD PILGRIM HEALTH CARE	AH000668		71,074
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-A941-4609		52,880
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-B222-4609		184,495
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	7945		(10,662)
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	8429-UCSF		160,803
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	8017-UCLA		1,987
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	INTELLIGENT OPTICAL SYSTEMS, INC.	IOS-3284		89,135
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	JOSLIN DIABETES CENTER	100219		26,326

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93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER FOUNDATION RESEARCH INSTITUTION	RNG200631-11	7,215	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER FOUNDATION RESEARCH INSTITUTION	KAISER-E0280	186,176	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER FOUNDATION RESEARCH INSTITUTION	RNG2116	46,514	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER FOUNDATION RESEARCH INSTITUTION	P30DKO	27,910	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	RNG200630-01	10,973	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	RNG209783-USCF-02	20,333	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	RNG209804-01	79,562	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	RNG211603-04	21,418	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	20108-04-144-342 (DK114457)	554,344	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	LOYOLA UNIVERSITY OF CHICAGO	SUB 206449 (DK104718)	38,879	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	MAX BIOPHARMA	20202394	(353)	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	MCGILL UNIVERSITY	215686	13,580	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	R01DK107541	115,348	70,720
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	A22-12	229,102	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	MCW-77632	27,491	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	MEDICAL UNIVERSITY OF SOUTH CAROLINA	A00-3656-5014	5,275	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	NEW ENGLAND RESEARCH INSTITUTES, INC.	UAB BACH STUDY	3	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	sub EST2375-02 (DK130870)	5,644	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	YUK2177	139,765	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	YUKL1941-098824	54,256	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	PRAETEGO INC	SUB 20202371 (DK120063)	282,387	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	PRAETEGO INC	Sub 30072671 (DK120063)	234,257	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	REELIN THERAPEUTICS, INC	SUBAWARD 30044484 (DK126520)	48,521	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	RUSH UNIVERSITY MEDICAL CENTER	19092604-SUB01	33,353	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	SCARLESS LABORATORIES, INC	1644047	16,970	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	SCRIPPS WHITTIER DIABETES INSTITUTE	SUB20162946-GODINO(DK112322)	86,070	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	SENSEION, LLC	O052413	53,232	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	SENTIA MEDICAL SCIENCES, INC.	44DK116362-02	46,241	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	SILICON KIDNEY LLC	SK 2019-01	66,201	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	SILICON KIDNEY LLC	SK 2019-02	52,563	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	SILICON KIDNEY LLC	SK 2019-03	5,263	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	SILICON KIDNEY LLC	SK 2019-04	21,795	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	41172	15,001	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62744235-174993	38,181	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	5331482	118,049	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62742893-174993	5,855	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62647475-DHBCH	4,469	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	THE BROAD INSTITUTE, INC.	5000804-5500001508 (DK105554)	303,617	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	THE BROAD INSTITUTE, INC.	5000815-5500001508 (DK105554)	284,707	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	THE BROAD INSTITUTE, INC.	SUB 5000869-5500001445(DK10555	192,377	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	THE CALIFORNIA MEDICAL INNOVATIONS INSTITUTE, INC.	sub CALM12-2020-001 (DK125657)	151,539	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-53968 (DK117138)	117,466	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	5-53816:1	195,347	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000518751-SP011-001 (D...	1,572	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000509533-008:A02	221,008	63,114
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	TUFTS UNIVERSITY	Sub 5021793_SERV (DK128208)	4,719	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF CHICAGO	FP064994	53,008	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY19.001.012	4,289	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00001487	(1,076)	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF HAWAII AT MANOA	KA1365	39,785	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF HAWAII AT MANOA	KA1470	22,218	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF IOWA	W000936998	23,459	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF IOWA	IOWA-D5664	300	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF IOWA	S02040-01	48,871	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF MARYLAND, BALTIMORE	3001055	12,719	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS CHAN MEDICAL SCHOOL	CHAN-77678	157,660	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00014404	194,477	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	N008738401	119,298	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF OKLAHOMA	OU-D8419	37,730	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	SUB 0054687 ((129571-1)) (DK09	1,733	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	6118-8359	77,320	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	6163-1082-10-BX	647,350	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	6163-1103	343,358	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	122369591	112,796	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	108190240:1	54,893	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	119256471	10,551	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	134245114	43,818	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF TENNESSEE SYSTEM	A18-1009-5001	1,347	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	161111-REGISTRY	11,719	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	10055841-03	71,619	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GB10510.POR2141121:02	13,493	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	RFA-KPMP-OP-19-003	107,438	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC10242	273,721	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC12850	132,945	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	884K553	81,002	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY	SUB - UNIV61907 (RE50041098...)	100,379	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY	UNIV 58354	(198)	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY	VUMC 96275	89,178	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY	UNIV58354	152,284	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	096070001-321430	364,435	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA AFARI 323832 (DK106415-	106,171	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GOLSHAN 317249 (DK1064	9,553	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA (Ix) 323475 (DK119528)	3,378	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Herbert [322353]112579741	32,473	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA (Ix) (322722) SHL2118-06 (DK	5,559	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA (Ix) (322967) (DK111510)	5,788	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA IX 322966 (DK102730)	6,292	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Lang 316833 (I R01 DK10641	1,834	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Rifkin (322048) (DK111510)	57,498	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA SINGH 319617 (DK112042)	7	
93.847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH		PASS-THROUGH	YALE UNIVERSITY	CON-80003428 (GR113803)	31,473	
93.849	KIDNEY DISEASES, UROLOGY AND HEMATOLOGY RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000518751-SP001-001(DK0793	455,940	
93.849	KIDNEY DISEASES, UROLOGY AND HEMATOLOGY RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	SUB P006923601(DK102932)	(2)	
93.850	IMPROVING EPILEPSY PROGRAMS, SERVICES, AND OUTCOMES THROUGH NATIONAL PARTNERSHIPS		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	RES514949	2,379	
93.851	TRACKING ELECTRONIC HEALTH RECORD ADOPTION AND CAPTURING RELATED INSIGHTS IN U.S. HOSPITALS		PASS-THROUGH	ABFM FOUNDATION, INC.	POS49150	148,510	
93.852	COVID-19 - NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSSP COP)	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		8,319	

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93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		10,723,842	779,894
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS THROUGH	DIAGNOSTIC CONSULTING NETWORK	SUB NONE (NS076359)	3,500	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	19-010728 B00	1,778	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS THROUGH	UNIVERSITY OF WISCONSIN-MADISON	SUB 818K484 (NS103844)	11,995	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS THROUGH	UNIVERSITY OF WISCONSIN-MADISON	SUB 847K836 (NS109486)	3,554	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	AMERICAN LIFE SCIENCE PHARMACEUTICALS, INC.	SUB 20183456(NS110147)	(5,190)	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	SUB 7000001030 (NS113294)	124,940	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	Sub 121804 (NS112107)	214,381	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	SUB S8384962(NS094403B)	(5,390)	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	CENTRAL MICHIGAN UNIVERSITY	SUB F63535 (NS099709)	(2,303)	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	DARTMOUTH COLLEGE	SUB R1070 (NS108809)	13,343	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	DIAGNOSTIC CONSULTING NETWORK	SUB NONE (NS076359)	77,520	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	DUKE UNIVERSITY	SUB A03-1445 (NS109401)	7,277	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	EMORY UNIVERSITY	SUB A275623 (NS116025)	138,700	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	LUDWIG INSTITUTE FOR CANCER RESEARCH	SUB 240630-05003 (NS027036)	88,047	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	NEURALSTEM INC.	SUB 20172379 (R44NS103703)	538	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	RAFT PHARMACEUTICALS LLC	SUB 20192484 (NS113705)	108,993	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB P1015431 (NS104368)	40,443	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 60845-13183-UCSD (NS105969)	124,457	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	UNIVERSITY OF CINCINNATI	SUB 010785-135727 (NS095869)	29,737	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	UNIVERSITY OF CINCINNATI	SUB 011266-135727 (NS100699)	333	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	UNIVERSITY OF CINCINNATI	SUB 011337-135727 (NS099043)	53,568	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	UNIVERSITY OF CINCINNATI	SUB 011961-135727 (NS106655)	29,910	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	UNIVERSITY OF KENTUCKY/THE UNIVERSITY OF KENTUCKY RESEARCH F	SUB 3210000405-17-136 (NS09719)	(390)	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	19-010728 B00	211,955	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00008967 (NS100659)	632	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	SUB 818K484 (NS103844)	195,132	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	SUB 847K836 (NS109486)	205,297	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA 322738 SCHIEHSER (NS109852)	4,403	
93.852	NATIONAL SYNDROMIC SURVEILLANCE PROGRAM COMMUNITY OF PRACTICE (NSP COP)		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA SHAHIDI, BAHAR 322777 (NS1	11,997	
93.853	COVID-19 - EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		828,234	
93.853	COVID-19 - EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	COVID-19	PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	121803	182,462	

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93.853	COVID-19 - EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	COVID-19	PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001749379	294,207	
93.853	COVID-19 - EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	COVID-19	PASS-THROUGH	STANFORD UNIVERSITY	61977990-123737	33,392	
93.853	COVID-19 - EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	COVID-19	PASS-THROUGH	UNIVERSITY OF CINCINNATI	010785-133897	12,318	
93.853	COVID-19 - EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	COVID-19	PASS-THROUGH	UNIVERSITY OF CINCINNATI	011337-133897	2,177	
93.853	COVID-19 - EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	COVID-19	PASS-THROUGH	UNIVERSITY OF CINCINNATI	012043-133897	10,438	
93.853	COVID-19 - EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	COVID-19	PASS-THROUGH	UNIVERSITY OF CINCINNATI	012044-133897	26	
93.853	COVID-19 - EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	COVID-19	PASS-THROUGH	UNIVERSITY OF VERMONT	32808SUB52599	143,585	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		38,885	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		172,100,493	15,483,029
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		-	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS THROUGH	CENTRAL MICHIGAN UNIVERSITY	SUB - F64485 (NS120832)	45,992	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	Sub A21-0028-S001 (NS115591)	2,155	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	SUB UTA20-001072 (NS116377)	6,096	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	ADDGENE, INC.	U24NS119916	106,232	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	ALBERT EINSTEIN COLLEGE OF MEDICINE	Sub 311235 (NS104911)	123,402	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	ALBERT EINSTEIN COLLEGE OF MEDICINE	R01NS104911	144,808	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	7000000792:1	(365)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	E0492-053	107,301	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	70000015	79,158	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	BOSTON UNIVERSITY	4500004084(1U19NS123717-01)	41,363	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	BOSTON UNIVERSITY	Sub 4500003382(NS108472)	123,624	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	BOSTON UNIVERSITY	Sub 4500004079 (NS123717)	163,959	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	BOSTON UNIVERSITY	A16-0139-007	(280)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	BOSTON UNIVERSITY	4500004068	132,567	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	BRAINBOX SOLUTIONS INC.	20185109	(1,150)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	BRENTWOOD BIOMEDICAL RESEARCH INSTITUTE	20152478	(135,065)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	121999	13	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	5528546	11,762	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	5535378	1,312	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	RE5513489	(1)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001764731	114,114	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CENTRAL MICHIGAN UNIVERSITY	SUB - F64485 (NS120832)	365,859	

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93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001415915:9	644	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001773962	35,924	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001796894	33,072	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG012976-05)	66,432	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG013057-08)	479,690	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG013057-09)	372,165	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG015295-01)	57,892	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	COLUMBIA UNIVERSITY	2(GG013057-04)	350,142	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	COLUMBIA UNIVERSITY	3(GG013057-16)	336,954	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	COLUMBIA UNIVERSITY	3(GG012011-03):2	45,632	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	COLUMBIA UNIVERSITY	R01NS110826	87,041	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	COLUMBIA UNIVERSITY	(GG015970-02)	54,530	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	COLUMBIA UNIVERSITY IRVING MEDICAL CENTER	Sub 17(GG014929-07 (NS078059)	128,289	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CORNELL UNIVERSITY	183412	46,057	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CORNELL UNIVERSITY	190630-04	89,410	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CORNELL UNIVERSITY	190630-05	17,957	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CORNELL UNIVERSITY	190630-02	(48,144)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	CORNELL UNIVERSITY	204402-03	161,381	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	1278001	(1,420)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DIAGNOSTIC CONSULTING NETWORK	DCND-5551919	105,256	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DIGNITY HEALTH	1033516	44,303	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DUKE UNIVERSITY	A034006	98,441	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DUKE UNIVERSITY	SUB 2034905 (NS092521)	(1,188)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DUKE UNIVERSITY	SUB A033657 (NS092521)	(2,697)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DUKE UNIVERSITY	Sub A034711 (NS092521)	328,435	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DUKE UNIVERSITY	A03-3195	76,300	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DUKE UNIVERSITY	A034204	50,607	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DUKE UNIVERSITY	A034453	657,597	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DUKE UNIVERSITY	A034425	26,359	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DUKE UNIVERSITY	A034206	98,523	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DUKE UNIVERSITY	A033120	37,735	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	DUKE UNIVERSITY	A034007	14,591	

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93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	EAST CAROLINA UNIVERSITY	AWD-22-0309-5001	128,524	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	EMORY UNIVERSITY	SUB A364771 (NS088748)	32,707	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	EYSZ, INC	P0537916	68,992	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	sub 21-M50 (NS124477)	5,824	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	GEORGETOWN UNIVERSITY	Sub 414703_GR424846-UCSD (N...	18,398	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	GLADSTONE INSTITUTES	Sub R2432-A (NS097976)	81,932	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	GLADSTONE INSTITUTES	SC-00068	40	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	HARVARD UNIVERSITY	153407.5111711.0109	576,650	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	HARVARD UNIVERSITY	HARVARD-D9636	28,968	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	HUNTINGTON MEDICAL RESEARCH INSTITUTES	2755-19-015B	131,990	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-0642-4609:5	2,040	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-C191-4609:1	38,927	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-F511-4609	584,740	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	ISMS-59099	215,929	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	IOWA STATE UNIVERSITY	4301738A	62,540	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2005012417	29,906	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	KENNEDY KRIEGER INSTITUTE	A133285	11,990	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	KENNEDY KRIEGER INSTITUTE	20190402	(1,565)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL C	R21NS109668	(7,301)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	LOUISIANA STATE UNIVERSITY SYSTEM	R21NS112788	13,240	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	LOUISIANA STATE UNIVERSITY SYSTEM	R01NS113955	51,897	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	MASSACHUSETTS HEALTH RESEARCH INSTITUTE, INC.	2020A014357	4,370	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	THE-224063-02	494	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	UCA-288216	207,553	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	1708-04719	(59,406)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	UH2NS095495	21,798	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	UCA18727601	1,812	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	UCL-232483	1,366	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	UCA-232463	382,736	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	MAYO-77641	30,753	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	MAYO-77679	421	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	METHODIST HOSPITAL GROUP	AGMT00003059	15,989	

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93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	METHODIST HOSPITAL RESEARCH INSTITUTE, THE	AGMT00000770	609	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	NEURANO BIOSCIENCE LLC	NEURANO-77662	125,426	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	NEUROPACE, INC.	13880 RAO	32,704	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	NORTHEASTERN UNIVERSITY	500713-78050	18,190	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60054977UCSF	6,409	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	NORTHWESTERN UNIVERSITY	NU-77984	85,891	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	NOVOGLIA LLC	NOVO-77000	80,655	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	NYU LANGONE HEALTH SYSTEM	18-A0-00-1000533-01	3,360	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	PALO ALTO VETERANS INSTITUTE FOR RESEARCH, INC.	R01NS117340	116,082	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	PRINCETON UNIVERSITY	U19NS104648	305,076	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	RICE UNIVERSITY	R23553	280,697	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	ROCKEFELLER UNIVERSITY	R01NS083823	(613)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	RUSH UNIVERSITY MEDICAL CENTER	15060903-SUB03	153,953	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB A20-0038-5001 (NS116885)	13,883	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	Sub A21-0028-5001 (NS115591)	197,465	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	A22-0016	262,075	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	SECOND SIGHT MEDICAL PRODUCTS, INC	20190428	359,568	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	SECOND SIGHT MEDICAL PRODUCTS, INC	20221018	96,751	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	SIERRA HEALTH FOUNDATION	SHF-77645	67,988	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	SNJ PHARMA INC.	1R43NS125756-01	3,970	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	STANFORD UNIVERSITY	61987623-135726	239,576	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	STANFORD UNIVERSITY	6253789 W0823	281,067	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	STANFORD UNIVERSITY	A18-0238-002	161,282	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	STANFORD UNIVERSITY	6257890	140,204	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	STANFORD UNIVERSITY	6269633	38,325	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	STANFORD UNIVERSITY	62790671-208926	47,213	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	STANFORD UNIVERSITY	224206	17,278	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	TEMPLE UNIVERSITY	SUB 261426-UCSD (NS105961)	141,792	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	239322	141,629	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	234362	97,649	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	SUB 235400 (NS115388)	195,847	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	232364:1	37,594	

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93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	A18-0600-002	4,027	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	NN110	40,749	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	NS095388	1,500	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	235400	197,403	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	NN111	2,325	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	U01NS114001	7,659	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	NN107	20,112	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	GENER-FN20-01	44,432	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	2R01 DK110162-04A1 (5-5453)	4,361	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB - 5-54487 (NS087026)	90,163	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	Sub 5-54569 (NS122098)	23,824	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE TEXAS A&M UNIVERSITY SYSTEM	M2000370	31,156	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000510297-005:A03	25,264	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	R01NS076856	33,280	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF ARIZONA	R01NS114913	93,329	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD101286 (SUB00000377)	90,981	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CHICAGO	FP066261-G	119,626	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CHICAGO	Sub AWD101042 (SUB00000300)...	17,736	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CHICAGO	UC-77623	137,000	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	SUB 012765-135727 (NS110772)	5,408	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	010785- 127986	731	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	011414-ADM-CRAMER	68,198	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	011414-ADM-SAVER:5	16,826	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	201603252-02	9,438	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	A19-4628-1	24,287	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	010785-135728	6,869	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	011337-135728	44,344	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	0122044-135728	275	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	012765-135728	12,941	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	012043-139	22,429	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	012765-127986	257	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	013381-00003	120,143	

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93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF CINCINNATI	UC-77655	2,230	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	UCO-58782	44,606	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00002739 (NS111680)	3,896	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00002667	5,595	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00002738	15,231	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF GEORGIA	SUB00002751	28,711	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF IOWA	0725002Y	(2)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF IOWA	U01NS055903	329,010	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF KENTUCKY/THE UNIVERSITY OF KENTUCKY RESEARCH F	3200003137-20-268	114,275	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF KENTUCKY/THE UNIVERSITY OF KENTUCKY RESEARCH F	Sub 3210000952-19-270(NS097197	2,912	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	22-016731 A00	47,749	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MIAMI	SPC-000308	14,407	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MIAMI	OS00000257:8	352	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	3004730634	82,968	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00007560	13,309	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00008388	(34,025)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00011888	294,875	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	3002348507-SHN	495	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	U01NS099046	22,714	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	3001413298-PNT	4,389	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00009896	(5,359)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MICHIGAN	UM-77970	190,250	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF MONTANA	PG16-64514-03	72	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF NEBRASKA AT KEARNEY	17-022-01	(367)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	578251	15,044	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	578474	13,847	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	579752	8,312	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	Sub 579752(NS114140)	46,487	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	CNVA00061536 (131230-1)	1,116	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF ROCHESTER	417610 / URFAO: GR510747:2	87,661	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF ROCHESTER	417388	308,049	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	131551238	18,552	

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93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	132606203	17,208	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	84718050:11	464,735	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	85744618	36,345	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	1374497	157,742	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	SUB UTA20-001072 (NS116377)	532,861	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA17-000609	(15,327)	(2,172)
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0013748A:01	16,906	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	0014556G	81,201	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	168354/165382	15,132	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	164684/164682	(1,357)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	166221/165999	(94)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	012028	146,837	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF UTAH	10035100-01	(57,842)	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF VERMONT	AWD000000566	35,123	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GB10477.POR2247114	65,648	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	SUB - UWSC12408 (NS108934)	220,473	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC10779	643,562	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11120	125,321	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11911	67,707	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC13087	74,807	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	R01NS110719	92,154	
93.853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		PASS-THROUGH	WINSANTOR INC	Subaward None (NS120354)	197,660	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		(5,220)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		381,925,788	109,931,318
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		DIRECT	UC LAWRENCE BERKELEY LABORATORY		18,631	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS THROUGH	DUKE UNIVERSITY	Sub A034274 (UM1AI104681)	2,763	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS THROUGH	NATIONAL JEWISH HEALTH	Sub 2020096801 (AI117673)	7,231	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS THROUGH	UNIVERSITY OF CENTRAL FLORIDA	SUB 22206A07 (AI154777)	5,602	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ALEPH THERAPEUTICS, INC.	A138089 ANDINO-PAVLOVSKY	75,110	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ALEPH THERAPEUTICS, INC.	A138296 ANDINO-PAVLOVSKY	191,801	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	AMERICAN ONCOLOGIC HOSPITAL	SUB CORE B (AI102853)	39,528	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	AMERICAN ONCOLOGIC HOSPITAL	SUB PROJECT 4 (AI102853)	459,689	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	APTITUDE MEDICAL	1R43AI142977-01A1	4,195	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ARKANSAS CHILDREN'S HOSPITAL RESEARCH INSTITUTE	SUB 034067 - UCSD BROIDE (R...	28,018	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	30030379	16,631	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	sub 7000001368 (AI157981)	21,204	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	7000000718	24,512	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY16ITN207	101,727	

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93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY18ITN057		(19)
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY19ITN332	241,734	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY20ITN372	102,366	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY20ITN373	150,971	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY21ITN429	5,866,970	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY19ITN258	1,952	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY20ITN382	104,634	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	UM1AI109565	8,792	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FTY18ITN104		(100)
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY15ITN160	77,156	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY16ITN182	7,710	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY19ITN352	87,560	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY20ITN390	229,662	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY21ITN428	200,253	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY21ITN476	6,775	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY21ITN394	13,035	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BETH ISRAEL DEACONESS MEDICAL CENTER	R21AI122938		(38)
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BIOPEPTIDE CO., INC.	20202480	508,048	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BORAGEN, INC	SBIR/Boragen	110,785	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	SUB (4500003871) (AI151639)	229,292	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500002399:002	54,433	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500003416	18,033	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500003527	20,850	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	123506	634,678	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	Sub 110206 (AI068636)	(2,000)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	SUB 119583(AI138801)	7,264	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	108402	3,594	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	117291	(720)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S538785	46,214	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO STATE UNIVERSITY	SUB S19-0017 (A1146719)	10,865	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	RESS12472	(8,802)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	SUB 0001522646 (AI127406)	343,922	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	SUB 0001602163 (AI141401)	395,935	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	SUB 0001604491 (AI134030)	74,427	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	Sub 0001713984 (AI103542)	7,176	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	0001726627	43,882	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	Sub GENFD0001572212 (AI125051)	37,965	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	SUB GENFD0001644919 (AI126614)	34,951	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001471889-CYC1	309,661	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001641532	122,743	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0001694420	75,672	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0002094250	36,909	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	RGF010603-D	21,890	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	NMD 1801 DVORAK	10,168	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	13273-B	3,599	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	Sub 309363 (AI117804)	68,867	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	309135	19,678	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	3111	16,887	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	COLORADO STATE UNIVERSITY	E0360-053	2,692	

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93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	COLORADO STATE UNIVERSITY	E0360-000	1,655	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	COLORADO STATE UNIVERSITY	G-06136-0	35,350	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	22(GG011896-49)	448	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	8(GG011896-34)	(1)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	U54AI138370	309,658	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	P01AI129859	86,658	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	212095-04	281,568	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	212094	554,006	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	212645	52,830	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	R01AI134494	262,269	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DARTMOUTH COLLEGE	009399	48,218	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DARTMOUTH COLLEGE	R1263	61,863	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DARTMOUTH COLLEGE	R1514	55,156	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	6764	43,988	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	SUB 20212351-01 (AI068636)	542,102	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	Sub A034274 (UM1AI104681)	254,907	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A032963	112,268	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A032986	85,119	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	Sub 248445/A031576 (AI139032)	283	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	sub 303000161 (AI104681)	20,173	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	Sub 303000163 (AI104681)	32,556	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	sub A033009 (AI104681)	45,564	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	sub A034275 (SUM1AI104681-09)	41,096	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	sub: 303000168 (AI104681)	24,540	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	203-7859:1	186	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A039085	(64)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	303000621	430,185	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A031636	274,550	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A032374	(810)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A032960	98,104	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A034260-SPS-261113	24,119	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMMUNE, INC.	A21-2017	124,971	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A042615	496,813	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A115274	2,173	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A160079	81,990	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A160118	29,374	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A231427	68,747	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A310207	86,890	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A330906	32,175	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A359871	144,534	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	DEEK-D7660	182,643	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	SUB A015972 (AI090023)	33,255	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	Sub A358053 (AI090023)	202,549	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	SUB T563785 (AI090023)	2,065	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	2 U19 110483-06	382	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A265442	4,347	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	SUB A368191 (AI110483)	27,079	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A542078	87,791	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A316848	91,997	

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93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A541924	17,543	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO19002630	17,351	10,811
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO21001034 (HPTH-MGA-REGUC-1	27,103	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	SUB PO2121000538 (AI068619)	59,019	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	865/0080.0020:21	(660)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	953/0080.0142:11	(10)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO15002977:11	232,654	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO17001851:07	1,784,663	1,130,774
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO20002150:1	4,875	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO20002577	69,793	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO20002746	917,935	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO20003265:1	13,888	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO21000095	234,401	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO21000533	(14)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO21000535	48,502	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO21000537	45,221	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO22001412	6,680	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO21002697	229,500	214,125
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	HPT101	85,638	67,597
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO2200054	71,742	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO22000686	7,065	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FEDERAL UNIVERSITY OF BAHIA	20200500	201,069	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	0001025404	35	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	0000958775	(5,367)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	FHCC-30D98	1,088,538	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	0001076511	142,170	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	GENERAL ELECTRIC COMPANY	PO NO. 401109530	259	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	sub 21-M103 (AI117970)	7,258	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	GWU 20-M18	55,592	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	GEORGE WASHINGTON UNIVERSITY	GWU-E0365	14,384	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	GEORGETOWN UNIVERSITY	SUB 411316_GR411240-USCD AWD-7	77,495	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	R2491-A	91,113	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	sub SC-00051 (AI164559)	42,160	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	SC-0005	299,993	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	HARVARD PILGRIM HEALTH CARE	U01AI153005/AH763	150,654	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	114487-5122326 (AI051164)	10,453	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	114722-5114089	102,550	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	116543.5108	(1,166)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	HELUNA HEALTH	A122745	1,520	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	HELUNA HEALTH	SFCTU-D8013	839,380	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	HELUNA HEALTH	HH-E0302	13,879	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	HENRY FORD HEALTH SYSTEM	A135693	499,121	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	HENRY FORD HEALTH SYSTEM	HFHS-A9139	2,296	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-8689-4609	64,329	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-B001-4609	63,924	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-B012-4609	323,570	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-B013-4609	325,715	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-C147-4609	244,318	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-C147-4609 (ADMIN CORE)	11,662	

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93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	E0255-8689-4609	28,522	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	Sub 0255-A133-4609 (AI135972)	256,991	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	Sub 0255-A133-4609(AI135972)	214,468	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	Sub 0255-E053-4609 (1U01AI1...	198,995	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-B001-4609:7	2,199	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-C160-4609	38,517	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-8673-4609	64,384	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	8172_UCSF B	6,141	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	8295_UCSF A	9,320	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	009351	7,206	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	8988_UCSF B	130,795	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	IU-D9746	221,191	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	IOWA STATE UNIVERSITY	430-40-016A:3	499,821	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2003036375	(157)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2003124717	84,623	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	LDR 40	(3,496)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	LDR 68 (UM1 AI068632-15)	39,212	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2002263085 (AI068632)	(4,811)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2002813349 (AI068632)	(55,315)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 200283349 (AI068632)	(105)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	Sub 200303655(AI069918)	100,305	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2003749517 (AI068632)	11,652	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2004117651 (AI134591)	13,438	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2004266092 (AI138897)	7,264	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2004427524 (AI145555)	16,610	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB 2004673186 (AI068632)	30,467	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	Sub 2004826974 (AI068632)	(1,446)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	Sub 2004911378 (AI068632)	40,770	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	Sub 2004911407 (AI068632)	12,554	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	Sub 2004915361 (AI068632)	31,871	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	Sub 2005039826 (AI068632-15)	259,136	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	sub 2005285894 (AI138897)	7,121	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB AI068632	(3,066)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	sub LDR 59 (AI068632)	29,868	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	Sub PTCL 44 (UM1 AI068632)	86,595	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	SUB TASK LDR03 (AI068632)	6,522	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	UM1AI068632	54,038	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2 UM1 AI068632-15	72,617	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2002292916	(36)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2002292921	3,103	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2002320204	3	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2003649365:1	2,741	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2003749533:01	3,819	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2003821277	(10)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	20141864:8	71,232	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2015-138389	8,149	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	LDR 52	15,202	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	LDR-56	5,418	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2003649374	9,481	

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93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	JH-D3989	2,111	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2005303242	73,686	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	PTCL47	64,098	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	LDR 70	20,009	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	PTCL48	15,477	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	PO 2004846185 (AI068632)	13,965	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	20025-03-381	23,269	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	SUB 20010-01-144-384 (AI15075	70,332	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	SUB 20080-01-144-382 (AI145...	115,896	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	Sub 27318-44-384 (AI135731)	10,856	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	Sub 27429-01-116-382 (AI142742	16,193	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	SUB 27429-01-144-382 (AI142742)	19,073	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	SUB 27429-02-150-382 (AI142742	6,771	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	27909-01-175-408	189,260	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B638089	465,456	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B623353	44,442	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LIGNAMED, LLC	A20-0733	247,125	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LUCIRA HEALTH, INC.	R44AI129031-SA1	59,085	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LUCIRA HEALTH, INC.	R44AI152737-SA1	263,252	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LUNDQUIST INSTITUTE FOR BIOMEDICAL INNOVATION AT HARBOR-UCLA	30284-UCLA:1	21,969	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	LUNDQUIST INSTITUTE FOR BIOMEDICAL INNOVATION AT HARBOR-UCLA	30685-UCLA:4	55,114	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	MAGEE-WOMENS RESEARCH INSTITUTE AND FOUNDATION	9529	84,275	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	MELAX TECHNOLOGIES, INC.	Sub 30074163 (75N93021C00028)	90,452	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	MICHIGAN STATE UNIVERSITY	SUB RC110226UC (AI145925)	254,562	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	MICROBEDX INC.	210954	(82,750)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	MIRIAM HOSPITAL, THE	7147085SNA	52,036	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	MONASH UNIVERSITY	sub: 299815414 - UCSD - 01 ...	12,389	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	MONTANA STATE UNIVERSITY	SUB G221-20-W7868 (AI147441)	239,583	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	MONTANA STATE UNIVERSITY	G381-21-W9134	84,356	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NATIONAL JEWISH HEALTH	20124101 (AI151958)	297,196	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NATIONAL JEWISH HEALTH	SUB 20098105 ADMIN CORE (AI117	1,215	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NATIONAL JEWISH HEALTH	SUB 20098204 (AI117673)	120,496	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NATIONAL JEWISH HEALTH	Sub 2020096801 (AI117673)	236,559	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NATIONWIDE CHILDREN'S HOSPITAL	700212-0121-00	135,509	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NEW YORK BLOOD CENTER, INC.	MOP-NIH685	20,446	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	F0328-27 S	1,956	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	R01AL139085	32,789	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NORTHERN ARIZONA UNIVERSITY	1004095-01	1,883	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NORTHERN ARIZONA UNIVERSITY	1004356	9,989	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	2104-01	32	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NORTHROP GRUMMAN SYSTEMS CORPORATION	7500517108	332,077	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60056418 UCSF	175,335	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60049111 UCLA:A01	133,883	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60060177UCSF	31,778	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NOVOBIOTIC PHARMACEUTICALS, LLC	5R44AI136137	47,978	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	NYU LANGONE HEALTH SYSTEM	20-00-00-1003829	452,361	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	OAK CREST INSTITUTE OF SCIENCE	S14-164UCLA:6	164	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	SUB 90006862	(7)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	PHASE DIAGNOSTICS, INC.	20170820	18,104	

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93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	RAFT PHARMACEUTICALS LLC	SUB RFT001-AI147879-001 (AI147	2,427	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	RTI INTERNATIONAL	SUB HD069031 (HD054214)	(3,231)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	0943	350,609	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	108614	(2,659)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	SAN DIEGO STATE UNIVERSITY	SUB SA0000592 (HD088688)	190,116	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	59560-12797-UCLA:3	33,657	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	SIXAL, INC.	20120004	(31,133)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-SSS-S-17-005215	(1,240)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	Sub CRB-SSS-S-15-004567 (HHSN2	(349)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	SUB CRB-SSS-S-18-005449 (HHSN2	22,865	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-SSS-S-1500	(60)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	SOUTHERN MEDICAL UNIVERSITY	SMU-5553612	23,983	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62630092-219928 (R01AI142864)	218,924	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	SUB 62230099-135391(AI142487)	2,303	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	61444536-120709	476	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62594817-167216	117,149	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	STANFORD-D9938	54,172	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	STELLENBOSCH UNIVERSITY	S006815-02	88,099	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	SUNOMIX THERAPEUTICS INC.	STI-208493	(21,006)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	SUSTAINABLE SCIENCES INSTITUTE	IR1200-1	6,734	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	TEMPLE UNIVERSITY	262177-UCLA:1	3,784	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	TEMPLE UNIVERSITY	268028-UCLA	322,290	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	TAM S210324	42,433	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	232788	5,776	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	234351	(58)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	232560:1	32,537	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	239761	41,985	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	5-53938:1	227,186	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	5-54363	32,754	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	5-54	507,950	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE TEXAS A&M UNIVERSITY SYSTEM	M1803705	187,591	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE TEXAS A&M UNIVERSITY SYSTEM	SUB M1800750 (AI127807)	643	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE TEXAS A&M UNIVERSITY SYSTEM	M1803707	245,057	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE TEXAS A&M UNIVERSITY SYSTEM	TAMU-77739	8,264	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000509734-007 (HHSN2722016	7,467	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000510836-005	161,659	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000510836-007	52,192	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB (HHSN2722013000121/HHSN...	63,247	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	Sub 000529618-SC004 (AI067039)	77,433	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 510836-004(AI067039)	113,122	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000523146-003	28,819	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	UAB-D9737	309,394	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000529618-SC007	169,121	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	TRANSLATIONAL GENOMICS RESEARCH INSTITUTE	ALTIN-20-01	25,850	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	TRELLIS BIOSCIENCE, INC.	1R44AI150143-01	118,513	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	TUFTS UNIVERSITY	102884	37,837	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	TUFTS UNIVERSITY	R01AI146245	54,376	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	TUFTS UNIVERSITY	TUFTS-77642	70,262	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	583970	331,889	

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93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	649339	25,778	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	R21AI152394	452	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF CALGARY	A22-0498	32,093	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF CENTRAL FLORIDA	SUB 22206A07 (AI154777)	255,786	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF CHICAGO	SUB FP066835-B (AI136056)	62,196	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD100477	174,633	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF COLOMBO	2223475-CYC1	50,760	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY21-1050.002	24,083	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	SUB FY21.938.002 (AI153185)	143,154	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY19.956.001	73,103	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF GEORGIA	SUB00002096	11,422	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF GEORGIA	UG-78791	151,020	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF IDAHO	R01AI131609	26,767	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF IOWA	R01AI132402	81,912	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF LOUISVILLE	SUB ULRF_19-0506-01(AI139671)	200,867	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE	1903414	35,515	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	F303314-1	18,545	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS CHAN MEDICAL SCHOOL	Sub 00000023 (AI160247)	302,729	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS CHAN MEDICAL SCHOOL	1R01AI141181-01	26,267	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS CHAN MEDICAL SCHOOL	ME-SUB0	8,498	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	3004686906	85,941	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00010590	155,749	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	R01AI132372	17,874	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00014439	194,036	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	UM-77993	3,936	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	N008289801	1,706	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF MONTANA	SUB PG19-61078-01(HHSN22018000	401,269	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	SUB 5113449 (AI145646)	43,763	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5112989:1	18,984	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5120658	18,270	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	CHE-D8487	41,511	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	560928	7	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	566950	(295)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	012248	325,606	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	579036	81,055	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	1R01AI144522-01A1	32,025	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	012269	26,514	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	R21AI140010	23,884	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	R01AI019844	73,900	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD00002422_134588-1	54,154	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	R21AI15357	2,355	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF RHODE ISLAND	0007489/11012018	120,998	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF ROCHESTER	SUB 30107145 (AI131344)	24,789	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	EIC-D8891	232,874	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	009365	141,600	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	6123-1246-20-D	78,239	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	6123-1246-60-D	(27,124)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	6123-1247-00-D-CYC1	94,934	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	132725895	109,476	

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93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	134501791	61,598	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SCON-00002192	33,700	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS AT SAN ANTONIO	1000004633	3,631	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	UTHSCSA-D9087	21,327	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF TORONTO	503460	346	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	10059619-01-UCSD	119,157	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	10060517-02	24,574	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	sub UWSC12876 (A148300)	156,609	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11806	14,611	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC9531	(125)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11940	211,744	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC130	352,010	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC10418	(22,252)	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC13092	149,030	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	534	22,047	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000167	16,454	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000489	119,512	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	P01AI132132	19,079	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	UWM-D9565	360,984	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY	Sub VUMC 44030 (HHSN272017000	2,866	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY	VUMC969	55,487	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY MEDICAL CENTER	SUB VUMC81650 (A150739)	90,526	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Stoneham 323309(AI081668)	27,934	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	JPA Guatelli 323708 (A129706)	46,096	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	Sub 100970001-325453 (A1157...	35,013	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA (Guatelli) 323319 (A108166	104,861	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GUATELLI 322679rev (A1116	8,080	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA GUATELLI 323755 (32119)	9,681	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA LEWINSKI 326022 (A116194)	8,965	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA MAZROUEE 325785 (A1157...	22,179	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Singh 323261 (A1081668)	107,270	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA SINGH 323645 09473001(A112	60,130	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA Stoneham 323290(AI140991)	5,902	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA STONEHAM 323901 (A129706)	4,884	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA STONEHAM 323902 (R33AI...	20,799	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA VOLLBRECHT 323310 (A111619	64,837	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VISBY MEDICAL, INC.	4AI143012-01A1	217	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	VITALANT	11530UCD150	6,666	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY	SUB 491-101720-114409 (AG05...	20,294	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	WISTAR INSTITUTE, THE	sub 25900-32-324 (A1164570)	90,260	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	YALE UNIVERSITY	GR105299(CON-80001663)	33,200	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	YALE UNIVERSITY	GR106288(CON-80001798)	240,064	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	YALE UNIVERSITY	GR103287(CON-80001287)	24,614	
93.855	ALLERGY AND INFECTIOUS DISEASES RESEARCH		PASS-THROUGH	YALE UNIVERSITY	YALE-77939	71,701	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		29,235,464	4,390,698
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	AMBERSTONE BIOSCIENCES, INC.	AB-5593308	14,043	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	LLORE-462	155,657	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	CORNELL UNIVERSITY	A21-3111	349,233	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	DUKE UNIVERSITY	PO1AI117915_A033999	212	

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93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	SUB HPTN-MGA-REGUC-1 (AI068619	57,415	57,415
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO20002573	285	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO20002892	66,505	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	30090223	43,426	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	SUB 0001062466 (AI068614)	72,935	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	UM1AI06861414	52,471	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	FHCC-74D89	126,859	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2005285932	67,497	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	LEIDOS BIOMEDICAL RESEARCH, INC.	A20-3921	289,335	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	PPD INC.	30078150	1,904	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	PPD INC.	30088666	1,861	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	PPD INC.	30091017	45,267	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	PPD INC.	30098032	3,877	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	PPD INC.	30106078	1,043	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	TENDEL THERAPIES INC.	A21-1455	89,938	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-54210 (AI44462)	614,771	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	0005202	35,029	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	UAB-D9169	130,933	
93.855	COVID-19 - ALLERGY AND INFECTIOUS DISEASES RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF PITTSBURGH	PITT-E0515	3,654	
93.856	MICROBIOLOGY AND INFECTIOUS DISEASES RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		343,467	
93.858	COVID-19 - NATIONAL COLLABORATION TO SUPPORT HEALTH, WELLNESS AND ACADEMIC SUCCESS OF SCHOOL-AGE CHILDREN	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		(57,103)	
93.858	NATIONAL COLLABORATION TO SUPPORT HEALTH, WELLNESS AND ACADEMIC SUCCESS OF SCHOOL-AGE CHILDREN		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		17,611,123	992,045
93.858	NATIONAL COLLABORATION TO SUPPORT HEALTH, WELLNESS AND ACADEMIC SUCCESS OF SCHOOL-AGE CHILDREN		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	SUB 121940 (GM132825)	44,567	
93.858	NATIONAL COLLABORATION TO SUPPORT HEALTH, WELLNESS AND ACADEMIC SUCCESS OF SCHOOL-AGE CHILDREN		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	SUB 122837 (GM118467)	8,265	
93.858	NATIONAL COLLABORATION TO SUPPORT HEALTH, WELLNESS AND ACADEMIC SUCCESS OF SCHOOL-AGE CHILDREN		PASS-THROUGH	CARNEGIE MELLON UNIVERSITY	SUB 1090607-425868 (GM137413)	80,820	
93.858	NATIONAL COLLABORATION TO SUPPORT HEALTH, WELLNESS AND ACADEMIC SUCCESS OF SCHOOL-AGE CHILDREN		PASS-THROUGH	CITY UNIVERSITY OF NEW YORK	SUB CM00001969-00 (GM100946)	142,756	
93.858	NATIONAL COLLABORATION TO SUPPORT HEALTH, WELLNESS AND ACADEMIC SUCCESS OF SCHOOL-AGE CHILDREN		PASS-THROUGH	INDIAN HEALTH COUNCIL, INC.	Sub 20174777 (GM128073)	132,956	
93.858	NATIONAL COLLABORATION TO SUPPORT HEALTH, WELLNESS AND ACADEMIC SUCCESS OF SCHOOL-AGE CHILDREN		PASS-THROUGH	INDIAN HEALTH COUNCIL, INC.	Sub 20174885 (GM128073)	88,031	
93.858	NATIONAL COLLABORATION TO SUPPORT HEALTH, WELLNESS AND ACADEMIC SUCCESS OF SCHOOL-AGE CHILDREN		PASS-THROUGH	INSTITUTE FOR SYSTEMS BIOLOGY	SUB 2017.0002 (GM127667)	41,981	
93.858	NATIONAL COLLABORATION TO SUPPORT HEALTH, WELLNESS AND ACADEMIC SUCCESS OF SCHOOL-AGE CHILDREN		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	SUB 5-53465 (GM100934)	2,586	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		231,702,149	5,692,148
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		DIRECT	UC LAWRENCE BERKELEY LABORATORY		268,532	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS THROUGH	THE SCRIPPS RESEARCH INSTITUTE	Sub 5-53979 (GM133157)	14,600	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	BIOIO, LLC	DTIU-D7864	38	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	BOSTON UNIVERSITY	4500002742:001	4,870	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	BRIDGE12 TECHNOLOGIES INC.	SB210113	320,457	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S504305	79,731	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, LONG BEACH FOUNDATION	SG199220500	1,404	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, LONG BEACH FOUNDATION	77008-000	9,301	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, NORTHRIDGE	A22-0016-5001	17,319	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	CHILDREN'S HOSPITAL AND RESEARCH CENTER FOUNDATION	808036_UCLA_04:4	(113,568)	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	COLORADO STATE UNIVERSITY	G-35013-1	(1,357)	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	CORNELL UNIVERSITY	008628	16,157	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	CORNELL UNIVERSITY	A20-0670-001	65,049	

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93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	DEFINED BIOSCIENCE, INC.	Sub 30135292 (GM140750)	6,243	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	FORCYTE BIOTECHNOLOGIES INC.	FORCYTE - 77746	83,066	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	INDIAN HEALTH COUNCIL, INC.	Sub 20192950 (GM128073)	23,908	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	INTEGRATED MICRO-CROMATOGRAPHY SYSTEMS, INC.	A21-0636	502,580	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	INTEGRATED MICRO-CROMATOGRAPHY SYSTEMS, INC.	FDA 80D17	237,186	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	IOWA STATE UNIVERSITY	R35GM131885	32,268	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	LOYOLA UNIVERSITY OF CHICAGO	LOYOLA - 77012	18,616	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	CLA-232782-01:1	(79)	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	UCA-251795	56,974	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	20185107	33,468	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	MICHIGAN STATE UNIVERSITY	RC110435UC	62,729	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	NORTH CAROLINA STATE UNIVERSITY	2016-3285-01	83,862	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	Q-CHEM, INC.	049449	75,921	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	Q-CHEM, INC.	2R44GM121126-02	189,327	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	Q-CHEM, INC.	2R44GM128480-02A1 (TERESA HEAD	14,160	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	ROCKEFELLER UNIVERSITY	2P41GM109824-06	371,282	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	ROCKEFELLER UNIVERSITY	2R01GM112108-05	71,350	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	SCRIBE BIOSCIENCES, INC.	SCB UCSF 3	51,822	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	SEATTLE CHILDREN'S HOSPITAL	12628SUB (AI150472)	42,606	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	STANFORD UNIVERSITY	62388902-139655	69,544	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	STANFORD UNIVERSITY	62241037-136718	593,576	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	STANFORD UNIVERSITY	R01GM079429	54,143	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	STONY BROOK UNIVERSITY (A STATE UNIVERSITY OF NEW YORK CAMPUS)	79590/2/1142917	21,860	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	Sub 5-53979 (GM133157)	146,803	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY CORPORATION AT MONTEREY BAY	210222-5056301A-S-A	57,240	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF ARKANSAS, FAYETTEVILLE	AWD100592-01	365	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	SUB 1558951 (GM132386)	17,846	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1558953/PO10013	21,299	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	FY20.726.001_AMD1	103,196	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF CONNECTICUT	UCHC7-145415998	163,623	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00002262	131,439	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF GEORGIA	012116	34,786	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF GEORGIA	SUB00002439 OT	60,409	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF GEORGIA	R01GM137008	129,602	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	083118-15900	105,638	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	092912-17727	1,739	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	18369	127,444	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS SYSTEM	OSP32288-00	18,086	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK000009716	18,621	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF MICHIGAN	A19-0897-001	44,078	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF MINNESOTA	H006126301	3,214	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF NEBRASKA	24-1123-0005-002	(163,048)	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF NEBRASKA MEDICAL CENTER	34-5140-2093-001	80,037	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5104882	(14,304)	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5122861	226	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD00002352 (134497-6)	59,817	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF ROCHESTER	SUB00000085	7,473	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF UTAH	10044932-06	212,537	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GB10352 153125	(329)	

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93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GB10854. PO 2271437	20,470	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	VANDERBILT UNIVERSITY	R01GM137458	21,484	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	VENOMYX, INC.	SUB 30076282 (1R41GM146314)	62,551	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HEAD 323260 (GM085179)	6	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	VIRGINIA TECH CARILION SCHOOL OF MEDICINE, INC	412703-19A28(GM143940)	13,401	
93.859	BIOMEDICAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	YALE UNIVERSITY	012395	195,412	
93.859	COVID-19 - BIOMEDICAL RESEARCH AND RESEARCH TRAINING	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		86,557	
93.859	COVID-19 - BIOMEDICAL RESEARCH AND RESEARCH TRAINING	COVID-19	PASS-THROUGH	NEOVATIVE, INC.	210792	25,405	
93.859	COVID-19 - BIOMEDICAL RESEARCH AND RESEARCH TRAINING	COVID-19	PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	1558952	133,688	
93.859	COVID-19 - BIOMEDICAL RESEARCH AND RESEARCH TRAINING	COVID-19	PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD00002352 (134497-4)	(79)	
93.859	COVID-19 - BIOMEDICAL RESEARCH AND RESEARCH TRAINING	COVID-19	PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD00002352 (134497-2)	5,931	
93.860	EMERGING INFECTIONS SENTINEL NETWORKS		PASS-THROUGH	OLIVE VIEW-UCLA EDUCATION & RESEARCH INSTITUTE, INC.	980016	133,983	
93.860	EMERGING INFECTIONS SENTINEL NETWORKS		PASS-THROUGH	OLIVE VIEW-UCLA EDUCATION & RESEARCH INSTITUTE, INC.	OLIVE VIEW-D6433	42,110	
93.860	EMERGING INFECTIONS SENTINEL NETWORKS		PASS-THROUGH	OLIVE VIEW-UCLA EDUCATION & RESEARCH INSTITUTE, INC.	OLIVE VIEW-D7875	29,319	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		4,561,710	302,299
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		68,423,714	9,376,845
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	ANN & ROBERT H. LURIE CHILDREN'S HOSPITAL OF CHICAGO	A21-0004-5005-UC DAV	42,023	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	7000000309-3	(26,234)	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	BOSTON MEDICAL CENTER CORPORATION	SUB BMC ID 6928 (HD096798)	68,389	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	RES515308	10,950	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CASE WESTERN RESERVE UNIVERSITY	RES516081	17,638	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	553378-14/15	16,484	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENED0001772359	4,961	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	8011-RGF009152-00-2	73,223	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	RGF011226-B	65,334	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	SUB 000013556-B (HD101641)	57,863	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	203769UCLA-CHI	1,935	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	000013763-B	180,542	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	000014206-A	19,931	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	00014206-B	77,146	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	77628-014	11,651	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	139469-C	87	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	109556	(1,595)	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	109528	(340)	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	314995	19,733	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	Sub 3200880522 (HD091185)	16,702	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	GRT-762/POH 20228078	63,262	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	GRT-00000762	32,662	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	GRT-000	4,104	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	012263	158,028	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	012273	33,488	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	R61HD100934	246,896	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	312999	367,112	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CLEMSON UNIVERSITY	2118-209-2010914:1	17,626	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	COLORADO STATE UNIVERSITY	R01HD099150	141,372	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	2(GG014111):2	80,444	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	GG017201	23,084	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	15101696-03	59	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	212826-9	126,188	

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93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	86519-11238	3,124	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	212826-10	133,912	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	87702-11249	162	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	17071036-02	8,572	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	215518-5	111,522	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	Sub 235518 (HHSN- 27520100003	6,180	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	305390-00002	5,850	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A031513	211,990	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	SUB A481093 (HD102534)	124,397	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	FLORIDA INTERNATIONAL UNIVERSITY	800009636-03UG	5,151	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	FLORIDA STATE UNIVERSITY	SUB HD089875	977	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	FLORIDA STATE UNIVERSITY	SUB R000002676 (HD089875)	25,688	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	FLORIDA STATE UNIVERSITY	R000002730	195,726	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	GEORGIA INSTITUTE OF TECHNOLOGY	AWD-101651-G2:4	126,996	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	117267-0128-5120011 (HD103133)	317,089	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	Prime 1P01HD103133-01 (sub ...	9,300	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	SUB 114205-1130-5096798 SMARTT	(33,591)	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	SUB 114205-1528-5096796 AMP (H	(66,519)	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	Sub 117267-0130-5120013 (HD...	586,727	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	sub-117267-0109-5115585-P01...	44,301	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	114205-1479-5107412	183,007	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	117267-0179-5119267	46,157	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	5118403	48,388	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	HENRY FORD HEALTH SYSTEM	87645	11,034	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2002295012:5	2	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2004679602	6,177	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2005334978	107	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER FOUNDATION RESEARCH INSTITUTION	RNG210150-UCD	78,146	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER FOUNDATION RESEARCH INSTITUTION	RNG209743-UCD-01	243,615	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER PERMANENTE CENTER FOR HEALTH RESEARCH	RNG210887-01	74,340	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	RNG209743-USCF-01	136,332	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	RNG210150-USCF	138,316	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	2700-003	168,107	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	KAISER PERMANENTE DIVISION OF RESEARCH	2700-021	16,466	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	LUNDQUIST INSTITUTE FOR BIOMEDICAL INNOVATION AT HARBOR-UCLA	20220124	45,709	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	NATIONAL OPINION RESEARCH CENTER	3629-UCLA:02	27,758	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	NATIONWIDE CHILDREN'S HOSPITAL	30005547-03	58,665	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	NATIONWIDE CHILDREN'S HOSPITAL	R01HD091347	14,793	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	NATIONWIDE CHILDREN'S HOSPITAL	C-Spine	45,937	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	R01HD102528	24,717	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	0-A1-00-1002855	445	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	NORTHSORE UNIVERSITY HEALTHSYSTEM RESEARCH INST	EH17-256-53:1	172,583	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60054325 UCSF	391,132	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60047828	19,916	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	NU-77980	34,390	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	NYU LANGONE HEALTH SYSTEM	20-A1-00-1002855	12,427	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	OKLAHOMA MEDICAL RESEARCH FOUNDATION	OMRF-83D03	20,800	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	OKLAHOMA STATE UNIVERSITY	1-571918-USCF	12,181	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	ONEGEVITY HEALTH, LLC	SUB 20202373 (HD103568)	12,507	

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93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	1013129_UCLA:1	162,803	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	R24HD085927	18,085	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	5970UCLADH	13,302	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	RADY CHILDREN'S HOSPITAL-SAN DIEGO	1082-1002643 AWD-S81	11,102	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	RADY CHILDREN'S HOSPITAL-SAN DIEGO	SUB 1081-1002643 AWD-SA1	245,300	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	RAND CORPORATION	9920180101	42,491	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	RAND CORPORATION	SCON-00000346	15,541	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	RTI HEALTH SOLUTIONS	SUB NONE (HD054214)	25,929	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	SEATTLE CHILDREN'S HOSPITAL	11625SUB:5	137,453	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	SHARP HEALTHCARE	A22-2415	2,040	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	SHARP HEALTHCARE FOUNDATION	R01HD096023	14,563	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	61269608-120188	(1,244)	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	61704698-122525	15,418	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	SHARIFF-MARCO	109,194	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	STANFORD-E0279	430,154	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62709959-137090	58,849	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	STELLENBOSCH UNIVERSITY	S004190 / 55811	(3,254)	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	STORX TECHNOLOGIES, INC.	A21-1410	143,385	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	THE BROAD INSTITUTE, INC.	Sub 5000765-5500001515 (R0...	55,182	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	SUB 230910 (HD068250)	182,917	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	Sub 231626 (HD093578)	9,331	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	231263	36,905	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	234643	61,362	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	Sub 230910 (HD06825)	134,241	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	R01HD102252	750,204	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	R01HD103494	291,100	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA	R01HD098179	421,797	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000504713-012 (HD061222)	13,628	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	Sub 000528920-SC001 (R01HD1...	20,121	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000529934-SC001	3,230	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	TULANE UNIVERSITY OF LOUISIANA	SUB TUL-HSC-557538-19/20 (HD05	(25,407)	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	356680	34,326	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO BOULDER	RHD086184A	202,794	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY21.156.001	165,263	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	SUB FY22.1176.001 (HD107700)	96	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF CONNECTICUT	5652280	190,196	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF GEORGIA	A20-0146-001	220,073	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF GEORGIA	SUB00002465	95,632	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF IOWA	S01936-01	450,656	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	95537Z0358201	53,224	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUB SUBK00011706 (HD084633)	196,391	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00010145	5,364	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00013063	14,122	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00013499	434,621	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	R01HD085233	58,677	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	H006124302	(233)	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF MISSOURI	C00069012-6	101,335	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	SUB 5106227 (HD086139)	488	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5112245	8,694	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	SUB 5107010 (HD086139)	6,654	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Sub HD089880	54,607	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5105863:2	(1,256)	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5109045:2	20,160	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5114011	64,638	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5114045	(133)	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5117865	205,566	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5122030	63,113	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5119830	19,005	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5122139	44,017	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5123162	55,513	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT GREENSBORO	Sub 21210208.1 (HD106391)	46,586	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF NOTRE DAME DU LAC	203344UCD	31,399	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	582891	36,521	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD00002906 (135261-3)	70,128	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	Sub SCON-00003160 (HD105907)	16,898	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS AT AUSTIN	UTA20-000232	2,387	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	APGMO 171010	152,655	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	10051369-05	69,465	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	10058860-10	1,000	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	10058860-24	11,358	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF VIRGINIA	R01HD0087413	12,835	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC111667	44,472	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC13039 (5R01HD096999-03)	283	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC9985	45,791	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC11330	94,312	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	2071	4,179	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMCS53613:4	411	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	WEILL CORNELL MEDICINE - QATAR	SUB 212826-8 (HD000850)	3,792	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	WEILL CORNELL MEDICINE - QATAR	Sub 215518-9 (HD000850)	108,925	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	WESTAT	30133668	7,900	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	WESTAT	6579-S45	27,652	
93.865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH		PASS-THROUGH	YALE UNIVERSITY	GR108746	19,267	
93.865	COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		11,995	
93.865	COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	CHAPMAN UNIVERSITY	500480-SUB1	24,530	
93.865	COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	DUKE UNIVERSITY	A03-1915	139,158	
93.865	COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	DUKE UNIVERSITY	A03-2101	18,298	
93.865	COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	FLINT REHABILITATION DEVICES	211059	80,568	
93.865	COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	NEW YORK UNIVERSITY	19-A0-00-1002957	23,762	
93.865	COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	NORTHWESTERN UNIVERSITY	60047828UCI	3,940	
93.865	COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	SHARP MARY BIRCH HOSPITAL FOR WOMEN AND NEWBORNS	#R012020 UCI	2,034	
93.865	COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF PITTSBURGH	0048860 (126873-15)-CYC1	31,172	
93.865	COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	87892310	113,267	
93.866	AGING RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		229,157,179	33,249,899
93.866	AGING RESEARCH		DIRECT	UC LAWRENCE BERKELEY LABORATORY		166,297	
93.866	AGING RESEARCH		PASS THROUGH	DUKE UNIVERSITY	SUB A032692 (AG063744)	19,377	
93.866	AGING RESEARCH		PASS THROUGH	UNIVERSITY OF PENNSYLVANIA	Sub 579015 (AG061173)	159,948	
93.866	AGING RESEARCH		PASS-THROUGH	AMERICAN FEDERATION-AGING RESEARCH	19-CSTAR-UCSF	11,639	
93.866	AGING RESEARCH		PASS-THROUGH	AMERICAN FEDERATION-AGING RESEARCH	20-CSTARPILOT-UCSF	9,505	
93.866	AGING RESEARCH		PASS-THROUGH	BANNER HEALTH	0435-06-102815	256,188	
93.866	AGING RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500002826	147,113	
93.866	AGING RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500003052	73,759	
93.866	AGING RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500003691	176,215	
93.866	AGING RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	R01AG065359	31,947	
93.866	AGING RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500004038	105,951	

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93.866	AGING RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500004042	242,864	
93.866	AGING RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	4500004044	59,857	
93.866	AGING RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	123216	15,680	
93.866	AGING RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	Sub 121337 (AG063689)	85,690	
93.866	AGING RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	111014:10	11,645	
93.866	AGING RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	125298	251	
93.866	AGING RESEARCH		PASS-THROUGH	BRIGHAM AND WOMEN'S HOSPITAL	125419	57,690	
93.866	AGING RESEARCH		PASS-THROUGH	BROWN UNIVERSITY	00001374	48,793	
93.866	AGING RESEARCH		PASS-THROUGH	BROWN UNIVERSITY	00001388	48,695	
93.866	AGING RESEARCH		PASS-THROUGH	BUCK INSTITUTE FOR RESEARCH ON AGING	SA20026-UC	58,374	
93.866	AGING RESEARCH		PASS-THROUGH	BUCK INSTITUTE FOR RESEARCH ON AGING	SA24041-UCB	34,445	
93.866	AGING RESEARCH		PASS-THROUGH	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	280201009-5200	14,654	
93.866	AGING RESEARCH		PASS-THROUGH	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	280201015-S215	37,349	
93.866	AGING RESEARCH		PASS-THROUGH	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	280201019-S236	996,326	
93.866	AGING RESEARCH		PASS-THROUGH	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	20204715	3,271	
93.866	AGING RESEARCH		PASS-THROUGH	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	280201024-S279	193,420	
93.866	AGING RESEARCH		PASS-THROUGH	CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE	U19AG023122	925,094	
93.866	AGING RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	Sub 1758255 (AG065141)	24,962	
93.866	AGING RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	sub 1760792 (AG065141)	503,820	378,222
93.866	AGING RESEARCH		PASS-THROUGH	CEDARS-SINAI MEDICAL CENTER	20203428	4,148	
93.866	AGING RESEARCH		PASS-THROUGH	CHAPMAN UNIVERSITY	2018-USCS-AG054442	376,009	
93.866	AGING RESEARCH		PASS-THROUGH	CHAPMAN UNIVERSITY	77975-053	16,360	
93.866	AGING RESEARCH		PASS-THROUGH	CHAPMAN UNIVERSITY	77975-000	9,325	
93.866	AGING RESEARCH		PASS-THROUGH	CLEVELAND CLINIC LERNER COLLEGE OF MEDICINE	NIH 6817 SLAVICH	73,761	
93.866	AGING RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG014297-01)	18,302	
93.866	AGING RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	3(GG012904-01)	(773)	
93.866	AGING RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	6(GG015822-03)	196,449	
93.866	AGING RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	SUB 1(GG017618-01) (AG069750)	147,580	
93.866	AGING RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	Sub 3(GG017519-01) AG071024	88,873	
93.866	AGING RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG013379)	41,029	
93.866	AGING RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG017202-01)	250,634	
93.866	AGING RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	GG012955	166,868	
93.866	AGING RESEARCH		PASS-THROUGH	COLUMBIA UNIVERSITY	GG017568	139,906	
93.866	AGING RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	1902515	25,901	
93.866	AGING RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	202900	122,067	
93.866	AGING RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	211791	72,094	
93.866	AGING RESEARCH		PASS-THROUGH	CYTOMUS THERAPEUTICS, INC.	SUBAWARD 30052196(R41CA257020	84,928	
93.866	AGING RESEARCH		PASS-THROUGH	DREXEL UNIVERSITY	R01AG061116	179,980	
93.866	AGING RESEARCH		PASS-THROUGH	DREXEL UNIVERSITY	900142	840	
93.866	AGING RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	SUB 303000088 (AG063744)	516	
93.866	AGING RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	SUB A032692 (AG063744)	643,238	
93.866	AGING RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	Sub A033956 (AG063744)	18,086	
93.866	AGING RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	Sub A033972 (AG063744)	618,492	
93.866	AGING RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A032694	84,625	
93.866	AGING RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A032881	21,150	
93.866	AGING RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	2834651	24,577	
93.866	AGING RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A034476	(7,580)	
93.866	AGING RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A035572	11,715	
93.866	AGING RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	U01AG061359	12,967	
93.866	AGING RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A246684	22,395	
93.866	AGING RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	010866	26,511	
93.866	AGING RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A229605	34,394	
93.866	AGING RESEARCH		PASS-THROUGH	EMORY UNIVERSITY	A229530	41,358	
93.866	AGING RESEARCH		PASS-THROUGH	FLORIDA STATE UNIVERSITY	R00002690	550,709	
93.866	AGING RESEARCH		PASS-THROUGH	FLORIDA STATE UNIVERSITY	R02075	128	
93.866	AGING RESEARCH		PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	SUB 0000940803 (AG048209)	135,075	
93.866	AGING RESEARCH		PASS-THROUGH	GEORGETOWN UNIVERSITY	424369_GRA24282-UCLA	40,473	
93.866	AGING RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	R2468-A	269,153	
93.866	AGING RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	R2628-A	216,903	
93.866	AGING RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	SC-00037	233,424	
93.866	AGING RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	SUB SC-00004 (AG064926)	148,914	
93.866	AGING RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	SC-00035	45,376	
93.866	AGING RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	A138517	49,172	
93.866	AGING RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	GLADSTONE-E0845	46,496	
93.866	AGING RESEARCH		PASS-THROUGH	GLADSTONE INSTITUTES	SC-00070	11,402	
93.866	AGING RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	116360-5100251-PROJECT 1	16,156	
93.866	AGING RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	116362-5111695	67,950	
93.866	AGING RESEARCH		PASS-THROUGH	HARVARD UNIVERSITY	100887-5119932	92,275	
93.866	AGING RESEARCH		PASS-THROUGH	HEALTHY DESIGN LTD. CO.	SUB NONE (R42AG059451)	(1,849)	
93.866	AGING RESEARCH		PASS-THROUGH	HEBREW SENIORLIFE INC.	10.10.91561	(4,636)	
93.866	AGING RESEARCH		PASS-THROUGH	HEBREW SENIORLIFE INC.	HIS-72435	138,740	
93.866	AGING RESEARCH		PASS-THROUGH	HEBREW UNIVERSITY OF JERUSALEM	3013004523	231,965	
93.866	AGING RESEARCH		PASS-THROUGH	HUNTINGTON MEDICAL RESEARCH INSTITUTES	HMRI-77618	46,541	
93.866	AGING RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-B451-4609	233,513	
93.866	AGING RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	SUB Q255-C701-4609 (AG055824)	(16,290)	
93.866	AGING RESEARCH		PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	ISM5-77634	143,805	
93.866	AGING RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	8212_UCSF	183,785	
93.866	AGING RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	IN4683237UCSF	434,526	
93.866	AGING RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	7862_UCLA:3	48,883	
93.866	AGING RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	4683237-UCSF	147,827	
93.866	AGING RESEARCH		PASS-THROUGH	INSTITUTE FOR MOLECULAR MEDICINE, INC. (CALIFORNIA)	IMM-77988	15,433	
93.866	AGING RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2004171429:1	621,875	
93.866	AGING RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2005197156	36,980	
93.866	AGING RESEARCH		PASS-THROUGH	KAI SER FOUNDATION RESEARCH INSTITUTION	RNG210856	448,702	
93.866	AGING RESEARCH		PASS-THROUGH	KAI SER FOUNDATION RESEARCH INSTITUTION	RF1AG069259	40,881	
93.866	AGING RESEARCH		PASS-THROUGH	KAI SER PERMANENTE DIVISION OF RESEARCH	RNG210270-UCSF	23,807	
93.866	AGING RESEARCH		PASS-THROUGH	KAI SER PERMANENTE DIVISION OF RESEARCH	RNG210270-UCLA	16,671	
93.866	AGING RESEARCH		PASS-THROUGH	KAI SER PERMANENTE DIVISION OF RESEARCH	RO1AG066132	(1,452)	
93.866	AGING RESEARCH		PASS-THROUGH	KAI SER PERMANENTE WASHINGTON HEALTH RESEARCH INSTITUTE	RNG210976-UCSF	498,477	

**University of California
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**For the Fiscal Year Ended June 30, 2022
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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.866	AGING RESEARCH		PASS-THROUGH	KAISER PERMANENTE WASHINGTON HEALTH RESEARCH INSTITUTE	RNG211395-UCSD (AG066567)	39,787	
93.866	AGING RESEARCH		PASS-THROUGH	KAISER PERMANENTE WASHINGTON HEALTH RESEARCH INSTITUTE	RNG211397-UCSD (AG066567)	16,999	
93.866	AGING RESEARCH		PASS-THROUGH	KAISER PERMANENTE WASHINGTON HEALTH RESEARCH INSTITUTE	SUB NONE (AG066567)	33,002	
93.866	AGING RESEARCH		PASS-THROUGH	KAISER PERMANENTE WASHINGTON HEALTH RESEARCH INSTITUTE	SUB RNG002694-BUDG01-UCSD-00 ((32)	
93.866	AGING RESEARCH		PASS-THROUGH	KAISER PERMANENTE WASHINGTON HEALTH RESEARCH INSTITUTE	RNG211396	334,374	
93.866	AGING RESEARCH		PASS-THROUGH	KARAMEDICA, INC.	2R44AG059478	60,263	
93.866	AGING RESEARCH		PASS-THROUGH	KECK GRADUATE INSTITUTE OF APPLIED LIFE SCIENCES	GR750005UCI	(4,408)	
93.866	AGING RESEARCH		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	LBNL 7596179	43,026	
93.866	AGING RESEARCH		PASS-THROUGH	LOMA LINDA UNIVERSITY	2190077	39,583	
93.866	AGING RESEARCH		PASS-THROUGH	MAGEE-WOMENS RESEARCH INSTITUTE AND FOUNDATION	5246_UCSF	(1,775)	
93.866	AGING RESEARCH		PASS-THROUGH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SUB S5165 - PO (AG069192)	7,211	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	BETA-D8227	383,825	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	CSF-234899-02	227,270	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	FOR-263134	2,193,709	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	SUB SAN-263134 (AG063911)	125,307	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	SUB SAN-263134/PO #67115777 (A	25,552	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	CLA-263134-01	68,248	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	LAC-263134	262,961	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	VER-263134	3,324	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	CLA-294646/PO #68589259	3,175	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	63788300	(7,067)	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	FOR-263136	185,003	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	CSF-294646/PO #68589260	83,877	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	MAYO-77973	86,042	
93.866	AGING RESEARCH		PASS-THROUGH	MAYO CLINIC/MAYO FOUNDATION FOR MEDICAL EDUCATION & RESEARCH	MAYO-77977	192,473	
93.866	AGING RESEARCH		PASS-THROUGH	MEMORYWELL INC.	A138664	50,719	
93.866	AGING RESEARCH		PASS-THROUGH	NATIONAL BUREAU OF ECONOMIC RESEARCH, INC	SUB 41910.UCSD (AG070806)	49,266	
93.866	AGING RESEARCH		PASS-THROUGH	NATIONAL BUREAU OF ECONOMIC RESEARCH, INC	41910.UCLA	35,814	
93.866	AGING RESEARCH		PASS-THROUGH	NEUROFIT	SUB 20193794 (AG066427)	77,382	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	sub SHL2361-01 (AG034853)	2,824	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	WEI2015-07	574,337	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	WEI2015-18	402,033	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	STE2196-05	31,454	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	U19AG024904	74,171	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	WEI2015-02	136,736	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	NCIRE-E0566	3,910	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	SHL23	41,886	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60047861UCSF	(7,774)	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60050621 UCDF	290,433	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	Sub 60048330 UCSD (AG057441)	(14,253)	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	SUB 60051680 UCSD (AG060426)	73,131	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60047943 UCLA:02	104,252	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	60053507 UCLA	28,098	
93.866	AGING RESEARCH		PASS-THROUGH	NORTHWESTERN UNIVERSITY	767379	167	
93.866	AGING RESEARCH		PASS-THROUGH	OHIO STATE UNIVERSITY	SUB 60051415(AG050725)	5,325	
93.866	AGING RESEARCH		PASS-THROUGH	OHIO STATE UNIVERSITY	GR123782	109,862	
93.866	AGING RESEARCH		PASS-THROUGH	PACIFIC HEALTH RESEARCH AND EDUCATION INSTITUTE	SUB 21704-02 (AG056499)	96,207	
93.866	AGING RESEARCH		PASS-THROUGH	PALO ALTO VETERANS INSTITUTE FOR RESEARCH, INC.	R01AG060726	131,829	
93.866	AGING RESEARCH		PASS-THROUGH	PEKING UNIVERSITY	UNI 2021001	35,085	
93.866	AGING RESEARCH		PASS-THROUGH	PENNNSYLVANIA STATE UNIVERSITY	U-6152-UCDI	11,910	
93.866	AGING RESEARCH		PASS-THROUGH	PEOPLE DESIGNS, INC.	1R44AG074131	15,048	
93.866	AGING RESEARCH		PASS-THROUGH	PEOPLE POWER COMPANY	045076	506,098	
93.866	AGING RESEARCH		PASS-THROUGH	PEOPLE POWER COMPANY	051829	173,791	
93.866	AGING RESEARCH		PASS-THROUGH	PROBIOME THERAPEUTICS, INC.	220040	370	
93.866	AGING RESEARCH		PASS-THROUGH	RAND CORPORATION	SCON-00000326	25,184	
93.866	AGING RESEARCH		PASS-THROUGH	RAND CORPORATION	RAND-E1183	21,202	
93.866	AGING RESEARCH		PASS-THROUGH	REGENERATIVE RESEARCH FOUNDATION	5029-UCSF	487,846	
93.866	AGING RESEARCH		PASS-THROUGH	RENDEVER	SB200061	16,458	
93.866	AGING RESEARCH		PASS-THROUGH	RENNSELAER POLYTECHNIC INSTITUTE	A21-0052-5001	68,874	
93.866	AGING RESEARCH		PASS-THROUGH	RESEARCH FOUNDATION FOR MENTAL HYGIENE	152522	34,262	
93.866	AGING RESEARCH		PASS-THROUGH	RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, NY	010663	46,610	
93.866	AGING RESEARCH		PASS-THROUGH	RH STUDIO 2 OPCO 22, INC.	RH-E0666	34,028	
93.866	AGING RESEARCH		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	D6386	8,804	
93.866	AGING RESEARCH		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	E0568	3,765	
93.866	AGING RESEARCH		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	R01 AG066018 A20-0020-S002	139,937	
93.866	AGING RESEARCH		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB A19-0036-S002-A01 (AG0640	10,227	
93.866	AGING RESEARCH		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	sub A21-0003-S001 (AG068635)	170,595	
93.866	AGING RESEARCH		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	A19-0036-S003	32,265	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.866	AGING RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 20201587(AG065387)	67,127	
93.866	AGING RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	SUB 69990-13317-USCD (AG07...	85,658	
93.866	AGING RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	Sub 69990-13318-USCD (AG071...	44,724	
93.866	AGING RESEARCH		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	Sub 70427-13532(AG073965)	211,286	
93.866	AGING RESEARCH		PASS-THROUGH	SRI INTERNATIONAL	P035208	245,137	
93.866	AGING RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	61624544-45510	102,198	
93.866	AGING RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62445802-147289	2,299	
93.866	AGING RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	SUB: 61626841-127916 (AG057707	172,277	
93.866	AGING RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62716453-133234	16,165	
93.866	AGING RESEARCH		PASS-THROUGH	SUTTER WEST BAY HOSPITALS	280201015-5216	124,647	
93.866	AGING RESEARCH		PASS-THROUGH	SUTTER WEST BAY HOSPITALS	sub-280201024/S284-AG066671	49,925	
93.866	AGING RESEARCH		PASS-THROUGH	SUTTER WEST BAY HOSPITALS	010412	395,707	
93.866	AGING RESEARCH		PASS-THROUGH	SUTTER WEST BAY HOSPITALS	2802010	61,275	
93.866	AGING RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	235290	49,859	
93.866	AGING RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	SUB 231823 (AG058256)	49,121	
93.866	AGING RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	239631	11,013	
93.866	AGING RESEARCH		PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	A-2395	36,773	
93.866	AGING RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	UAB-77631	54,950	
93.866	AGING RESEARCH		PASS-THROUGH	TERANOVA, LLC	A22-2825	5,528	
93.866	AGING RESEARCH		PASS-THROUGH	TERANOVA, LLC	TNV 1003	11,843	
93.866	AGING RESEARCH		PASS-THROUGH	TUFTS MEDICAL CENTER, INC.	5019742	8,750	
93.866	AGING RESEARCH		PASS-THROUGH	TUFTS MEDICAL CENTER, INC.	TUFTS-77613	4,019	
93.866	AGING RESEARCH		PASS-THROUGH	TUFTS UNIVERSITY	103065-00001	(44,555)	
93.866	AGING RESEARCH		PASS-THROUGH	TULANE UNIVERSITY OF LOUISIANA	TUL-HSC-557709-19/20	21,235	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK	SUB R1221945 (AG063659)	260,609	
93.866	AGING RESEARCH		PASS-THROUGH	CAMPUS			
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	310311	(19,135)	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF ARIZONA	639654	423,149	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF CENTRAL FLORIDA	R01AG054621	28,832	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF CHICAGO	FP056715-C4	(1,689)	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	SUB FY20.930.002(AG05913)	102,162	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	FY19.572.002	205,851	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO DENVER	UCD-77685	36,190	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	FY20.830.007:1	104,655	73,776
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB 00001881 (R37AG033906)	43,595	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB000002698	75,301	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MARYLAND, BALTIMORE	R56AG068673	4,757	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MARYLAND, BALTIMORE	UMB-4842	17,111	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MARYLAND, COLLEGE PARK	1903395 REQUEST: 2412	278,879	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	OSP27336-01	35,918	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	OSP32709-00	10,361	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MARYLAND, BALTIMORE	SUB00000039	17,474	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	OSP27336-P4	36,641	17,187
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MIAMI	SUB OS00000674 (AG067568)	124,882	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK000003638	29,225	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	U01AG017/19	6,880	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	AWD000003000 (135310-5)	6,580	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	R01AG056407	17,362	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF MINNESOTA	A006835803	75,432	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	SUB 5119878 (AG061088)	4,561	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	A-5119	52,250	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH TEXAS	RF00105-2018-0020	39,857	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH TEXAS	SUB RF00197-2020-0349 (AG0...	202,747	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH TEXAS	SUB RF00016-2017-0033(AG051848	21,827	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH TEXAS	SUB RF00032-2019-0101 (AG05853	295	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF NORTH TEXAS	SUB RF00110-2018-0022(AG058252	379,051	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	571660	335	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	579679	77,836	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	580820	385,839	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	Sub 2020158 (AG069130)	120,283	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PENNSYLVANIA	Sub S79015 (AG061173)	294,318	76,344
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD000003000 (135310-11)	11,765	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD000003000 (135310-2)	867,163	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	CNVA00047610 (132509-1)	69,672	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	CNVA00050794 (128001-2):3	94,051	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	U19AG063720	839,216	633,091
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD000003000	8,085	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD000004899	45,531	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD000003844 (135854-1)	18,613	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD000004643(136650-4)	18,186	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD000003547	82,446	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF ROCHESTER	SUB00000063	29,486	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF ROCHESTER	SUB00000064	28,357	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	6118-1082-00-C	131,106	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	105751256	268,687	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	106132015	9,424	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 107080396(AG055367)	96,418	19,076
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 109161761 (AG059329)	36,953	16,095
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 112743702 (AG060470)	61,727	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 120045183 (AG063689)	5,309	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	SUB 79634313 (WEI2015-01)	170,255	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	Sub SC0N-00003260 (AG052350)	57,613	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	010210	56,227	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	010298	81,077	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	012054	17,963	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	103118915:1	10,817	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	105828736:1	58,397	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	125149718	66,148	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	129612812	6,509	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	136918461	262,913	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	137876613	91,951	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	138888987	24,160	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	79635074:02	180,001	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	80108370:4	114,844	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	96456291:2	(26,713)	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	131004311	129,921	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	79685690	80,818	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	U24AG057437	214,711	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	75696718	8,302	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	R01AG063689	115,934	34,892
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	USC-87405	20,097	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	137877037	10,746	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	1324	3,343	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	138110694	61,790	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	USC-77966	4,050	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF TENNESSEE HEALTH SCIENCE CENTER	22-1761	14,643	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	SA0000466	33,323	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	Sub SA0000467 (AG063946)	7,840	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	UTHSC-88D67	51,086	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	168723/168721	(86,145)	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	R01AG054076	270,773	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	170682/1	8,546	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	PO: 0000002074 GMO: 210910	77,617	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS SYSTEM	21-85575-01	187,854	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF TORONTO	UT-77419	7,725	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF VERMONT	Sub 32667SUB53009(AG059451)	82,020	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	SUB 752710 (AG16976)	52,926	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	SUB UWSCL1050 (AG056711)	80,136	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	SUB UWSCL12305 (AG056486)	5,662	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	SUB UWSCL13000 (AG072122)	6,355	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC10655	49,500	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC7735	21,004	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC9789	12,456	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC13001	34,131	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC12996	25,738	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UW-77978	25,750	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	SUB 0000000038 (AG048218)	(108,799)	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	SUB 0000001246 (AG070883)	98,718	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	SUB 793K041 (AG057784)	19,902	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000104	121,546	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000105	12,753	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	011439	29,448	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	708K363:3	54,876	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	00001245	100,265	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	UWM-74D62	112,798	
93.866	AGING RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	UWM-77979	160,666	
93.866	AGING RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	JPA Braun 325307 (AG065385)	17,499	
93.866	AGING RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA HAUGER 323479 (1R01AG0653)	10,942	
93.866	AGING RESEARCH		PASS-THROUGH	VETERANS MEDICAL RESEARCH FOUNDATION OF SAN DIEGO	VPA RISSMAN 323477 (1R01AG0653)	8,427	
93.866	AGING RESEARCH		PASS-THROUGH	VIVREON BIOSCIENCES, LLC	VB-5596668	(8)	
93.866	AGING RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY	SUB 101720-554012 (AG054523)	476,245	
93.866	AGING RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY	SUB WFUHS 118269 (AG060897)	33,742	
93.866	AGING RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY	101720-551083:1	354,149	
93.866	AGING RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY	118333	14,361	
93.866	AGING RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY	1137-32841	104,897	
93.866	AGING RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY HEALTH SCIENCES	FP00015737-10	83	
93.866	AGING RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY HEALTH SCIENCES	108-101720-550134	31,254	
93.866	AGING RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY HEALTH SCIENCES	101720-336752	7,104	
93.866	AGING RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY HEALTH SCIENCES	50-101720-1	674,273	
93.866	AGING RESEARCH		PASS-THROUGH	WAKE FOREST UNIVERSITY HEALTH SCIENCES	504-10720-3	56,381	
93.866	AGING RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-15-135 (AG049369)	(1,494)	
93.866	AGING RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-19-281(AG053267)	46,287	
93.866	AGING RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	Sub WU-20-43 (AG059798)	1,225	
93.866	AGING RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	SUB WU-17-344 (P01AG051443)	(25,316)	
93.866	AGING RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-22-0070 (AG072694-01A1)	143,934	
93.866	AGING RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-18-425-MOD-1	429	
93.866	AGING RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-19-310-CY1	1,346	
93.866	AGING RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-20-385	331,491	
93.866	AGING RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-22-0356	81,748	
93.866	AGING RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-71775	6,891	
93.866	COVID-19 - AGING RESEARCH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		3,005,444	922,124
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG010471-12)	1,415,042	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	COLUMBIA UNIVERSITY	2(GG010471-14)	69,616	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	HUNTINGTON MEDICAL RESEARCH INSTITUTES	2776	(3,100)	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	INSTITUTE FOR MOLECULAR MEDICINE, INC. (CALIFORNIA)	4001-UCI-DHC-2018	144,800	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	INSTITUTE FOR MOLECULAR MEDICINE, INC. (CALIFORNIA)	4001-UCI-MB1-2018	112,351	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	PACIFIC HEALTH RESEARCH AND EDUCATION INSTITUTE	21704-03	3,826	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	5812-UCI-UWM-K562	(4,788)	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	0460	79,116	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	70032-13516-UCI	39,180	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	STANFORD UNIVERSITY	61626840-127916	111,914	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD00002130 (134286-7)	2,132,893	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	1253-1118-00-A	109,171	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	105741448	130,902	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	107784754	121,132	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	109150990	20,301	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	110869109	12	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	117147219	35,791	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	117340131	69,029	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	120119676	133,221	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	124448434	(158)	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	125547898	16,478	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	132811498	5,077	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	87544370	12,533	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000275	73,553	
93.866	COVID-19 - AGING RESEARCH	COVID-19	PASS-THROUGH	WAKE FOREST UNIVERSITY	289-101720-441385	35,441	
93.867	COVID-19 - VISION RESEARCH	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		116,207	
93.867	COVID-19 - VISION RESEARCH	COVID-19	PASS-THROUGH	DOHENY EYE INSTITUTE	18242UCI	97,930	
93.867	COVID-19 - VISION RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	19-010998 A00-CYC1	144,435	
93.867	COVID-19 - VISION RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	100574101	19,682	
93.867	COVID-19 - VISION RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	122275983	28,941	
93.867	COVID-19 - VISION RESEARCH	COVID-19	PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	72730838	105,919	
93.867	VISION RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		66,190,144	4,252,798
93.867	VISION RESEARCH		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	7000000842	1,112,113	
93.867	VISION RESEARCH		PASS-THROUGH	BOSTON UNIVERSITY	SUB 4500003692 (EY030727)	52,286	
93.867	VISION RESEARCH		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S378172.04	(48)	
93.867	VISION RESEARCH		PASS-THROUGH	CALIFORNIA INSTITUTE OF TECHNOLOGY	S520068	86,404	
93.867	VISION RESEARCH		PASS-THROUGH	CHILDREN'S HOSPITAL MEDICAL CENTER OF CINCINNATI	309380	460	
93.867	VISION RESEARCH		PASS-THROUGH	CLEVELAND CLINIC LERNER COLLEGE OF MEDICINE	R21EY031087	15,229	
93.867	VISION RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	161219952	22,274	
93.867	VISION RESEARCH		PASS-THROUGH	CORNELL UNIVERSITY	R01NS104926	198,556	
93.867	VISION RESEARCH		PASS-THROUGH	DUKE UNIVERSITY	A034049	100,531	
93.867	VISION RESEARCH		PASS-THROUGH	GEORGE MASON UNIVERSITY	E2048122	225,490	
93.867	VISION RESEARCH		PASS-THROUGH	GEORGE MASON UNIVERSITY	R01EY029715	31,358	
93.867	VISION RESEARCH		PASS-THROUGH	GREATER BALTIMORE MEDICAL CENTER	20194713	16,659	
93.867	VISION RESEARCH		PASS-THROUGH	ILLINOIS INSTITUTE OF TECHNOLOGY	SA19-0101-S001	349,993	
93.867	VISION RESEARCH		PASS-THROUGH	INDIANA UNIVERSITY	9282	114,648	
93.867	VISION RESEARCH		PASS-THROUGH	JAEB CENTER FOR HEALTH RESEARCH, INC.	30072335	88,981	
93.867	VISION RESEARCH		PASS-THROUGH	JAEB CENTER FOR HEALTH RESEARCH, INC.	20203563	39,822	
93.867	VISION RESEARCH		PASS-THROUGH	JAEB CENTER FOR HEALTH RESEARCH, INC.	U10EV11751	4,424	
93.867	VISION RESEARCH		PASS-THROUGH	JAEB CENTER FOR HEALTH RESEARCH, INC.	201603120	4,968	
93.867	VISION RESEARCH		PASS-THROUGH	JAEB CENTER FOR HEALTH RESEARCH, INC.	20215114	5,393	
93.867	VISION RESEARCH		PASS-THROUGH	JAEB CENTER FOR HEALTH RESEARCH, INC.	JAEB-77676	151	
93.867	VISION RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2002507432-06	10,547	
93.867	VISION RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2004438024	2,600	
93.867	VISION RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2005325	28,656	
93.867	VISION RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2002473559	12,977	
93.867	VISION RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	2004415376	30,694	
93.867	VISION RESEARCH		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	JH-E0616	100,100	
93.867	VISION RESEARCH		PASS-THROUGH	M2-COR, INC.	222161	9,323	
93.867	VISION RESEARCH		PASS-THROUGH	MEDICAL COLLEGE OF WISCONSIN	1U24EY029891-01	323,161	
93.867	VISION RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	20174518	19,873	
93.867	VISION RESEARCH		PASS-THROUGH	NEW YORK UNIVERSITY	106171	6,042	
93.867	VISION RESEARCH		PASS-THROUGH	OHIO STATE UNIVERSITY	R01EV031098	233,136	
93.867	VISION RESEARCH		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	A19-0040-001	185,168	
93.867	VISION RESEARCH		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	UCLAEY023533	69,255	
93.867	VISION RESEARCH		PASS-THROUGH	PENNSYLVANIA STATE UNIVERSITY	PSU-B3947	(39,807)	
93.867	VISION RESEARCH		PASS-THROUGH	PLEX PHARMACEUTICALS, INC.	A22-0872	40,374	
93.867	VISION RESEARCH		PASS-THROUGH	RASHMINIV, LLC	RVL-UC-Davis-10-9-20	33,617	
93.867	VISION RESEARCH		PASS-THROUGH	SAK'L INSTITUTE FOR BIOLOGICAL STUDIES	SUB A11-0006-5001 (EY020503)	432	
93.867	VISION RESEARCH		PASS-THROUGH	SMITH-KETTLERWELL EYE RESEARCH INSTITUTE	6012401UCSF	6,060	
93.867	VISION RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62252694-139491	(681)	
93.867	VISION RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	A00-1375-007	27,747	
93.867	VISION RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	62537896-173713	161,743	
93.867	VISION RESEARCH		PASS-THROUGH	STANFORD UNIVERSITY	R21EY031063	24,883	
93.867	VISION RESEARCH		PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	5-271641	235,162	
93.867	VISION RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SUB 000512884 (EY026574)	(858)	
93.867	VISION RESEARCH		PASS-THROUGH	THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	000527995-SC002	168,295	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF CENTRAL FLORIDA	SUB 22206A02-02 (EY030104)	45,714	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF LOUISVILLE	ULRF 17-0844-02:2	78	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION, INC.	ULRF 17-0884-01	28,022	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUB 3004210904 (EY026641)	36,316	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00013749 (1R25EY032739-01)	11,310	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF MICHIGAN	U0M 300465125	(25,088)	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF ROCHESTER	417342-G / UR FAO GRS10790	30,701	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF ROCHESTER	UR-72349	54,755	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	79508336:2	158,920	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	14378	26,172	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF TENNESSEE HEALTH SCIENCE CENTER	SUB 21-0326-UCSD (EY021200)	62,064	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON	SUB 20-85068-01 (EY03105401)	127,577	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF UTAH	1005930801	40,952	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC133	158,773	
93.867	VISION RESEARCH		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000001135	42,170	
93.867	VISION RESEARCH		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	012013	12,426	
93.876	ANTIMICROBIAL RESISTANCE SURVEILLANCE IN RETAIL FOOD SPECIMENS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		330,813	
93.877	AUTISM COLLABORATION, ACCOUNTABILITY, RESEARCH, EDUCATION, AND SUPPORT		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		5,389,957	2,369,385
93.877	AUTISM COLLABORATION, ACCOUNTABILITY, RESEARCH, EDUCATION, AND SUPPORT		PASS-THROUGH	ASSOCIATION OF UNIVERSITY CENTERS ON DISABILITIES INCORPORAT	07-21-8840	8,546	
93.877	AUTISM COLLABORATION, ACCOUNTABILITY, RESEARCH, EDUCATION, AND SUPPORT		PASS-THROUGH	DREXEL UNIVERSITY	800096:1	59,956	
93.879	MEDICAL LIBRARY ASSISTANCE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		3,429,629	622,067
93.879	MEDICAL LIBRARY ASSISTANCE		PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG012264)	86,303	
93.879	MEDICAL LIBRARY ASSISTANCE		PASS-THROUGH	NEW YORK UNIVERSITY	20-A1-00-1003427	79,602	
93.879	MEDICAL LIBRARY ASSISTANCE		PASS-THROUGH	OAK RIDGE ASSOCIATED UNIVERSITIES, INCORPORATED	20204336	5,000	
93.879	MEDICAL LIBRARY ASSISTANCE		PASS-THROUGH	STANFORD UNIVERSITY	62357550-138432	90,350	
93.879	MEDICAL LIBRARY ASSISTANCE		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00010386	12,409	
93.879	MEDICAL LIBRARY ASSISTANCE		PASS-THROUGH	UNIVERSITY OF WASHINGTON	SUB UWC11481 (1R01LM013301-01	313,979	
93.879	MEDICAL LIBRARY ASSISTANCE		PASS-THROUGH	VANDERBILT UNIVERSITY	OSA000000056	18,448	
93.879	MEDICAL LIBRARY ASSISTANCE		PASS-THROUGH	YALE UNIVERSITY	YALE-D8377	19,913	
93.884	GRANTS FOR PRIMARY CARE TRAINING AND ENHANCEMENT		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		415,290	
93.886	PHYSICIAN ASSISTANT TRAINING IN PRIMARY CARE		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-22-0260	33,812	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.898	CANCER PREVENTION AND CONTROL PROGRAMS FOR STATE, TERRITORIAL AND TRIBAL ORGANIZATIONS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	1810056	57,393	
93.910	FAMILY AND COMMUNITY VIOLENCE PREVENTION PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		408,369	
93.912	RURAL HEALTH CARE SERVICES OUTREACH, RURAL HEALTH NETWORK DEVELOPMENT AND SMALL HEALTH CARE PROVIDER QUALITY IMPROVEMENT		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		148,939	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	ALAMEDA COUNTY PUBLIC HEALTH DEPARTMENT	PHG08HA60200	107,139	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	BPHC11000127	133,846	
93.918	COVID-19 - GRANTS TO PROVIDE OUTPATIENT EARLY INTERVENTION SERVICES WITH RESPECT TO HIV DISEASE	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		109,400	
93.928	SPECIAL PROJECTS OF NATIONAL SIGNIFICANCE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,861,268	189,011
93.928	SPECIAL PROJECTS OF NATIONAL SIGNIFICANCE		PASS-THROUGH	CAPITAL CONSULTING CORPORATION	A132354	5,254	
93.928	SPECIAL PROJECTS OF NATIONAL SIGNIFICANCE		PASS-THROUGH	NATIONAL ALLIANCE OF STATE AND TERRITORIAL AIDS DIRECTORS	22-SA-3215-037	15,909	
93.936	NATIONAL INSTITUTES OF HEALTH ACQUIRED IMMUNODEFICIENCY SYNDROME RESEARCH LOAN REPAYMENT PROGRAM		PASS-THROUGH	BOULDER NONLINEAR SYSTEMS, INC.	050859	59,695	
93.940	HIV PREVENTION ACTIVITIES HEALTH DEPARTMENT BASED HUMAN IMMUNODEFICIENCY VIRUS (HIV)/ACQUIRED IMMUNODEFICIENCY VIRUS SYNDROME (AIDS) SURVEILLANCE		PASS-THROUGH	HELUNA HEALTH	0471.0104		(25)
93.944	ASSISTANCE PROGRAMS FOR CHRONIC DISEASE PREVENTION AND CONTROL COOPERATIVE AGREEMENTS TO SUPPORT STATE-BASED SAFE MOTHERHOOD AND INFANT HEALTH INITIATIVE PROGRAMS		PASS-THROUGH	HELUNA HEALTH	1000002605	20,076	
93.945	BLOCK GRANTS FOR COMMUNITY MENTAL HEALTH SERVICES		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		899,047	
93.946	BLOCK GRANTS FOR PREVENTION AND TREATMENT OF SUBSTANCE ABUSE FUNDING IN SUPPORT OF THE PENNSYLVANIA RURAL HEALTH MODEL		PASS-THROUGH	SIERRA HEALTH FOUNDATION	SUB CA19MAT117	32,612	
93.968	COVID-19 - PPHF GERIATRIC EDUCATION CENTERS	COVID-19	DIRECT	SAN DIEGO STATE UNIVERSITY	Sub SA0000695 (HP28717)	272,512	
93.969	PPHF GERIATRIC EDUCATION CENTERS FAMILY PLANNING SERVICE DELIVERY IMPROVEMENT RESEARCH GRANTS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		(6)	
93.974	PRIMARY CARE MEDICINE AND DENTISTRY CLINICIAN EDUCATOR CAREER DEVELOPMENT AWARDS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,525,289	71,560
93.976	SEXUALLY TRANSMITTED DISEASES (STD) PROVIDER EDUCATION GRANTS MEDICARE ACCESS AND CHIP REAUTHORIZATION ACT (MACRA) FUNDING OPPORTUNITY: MEASURE DEVELOPMENT FOR THE QUALITY PAYMENT PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		561,921	
93.986	MEDICARE ACCESS AND CHIP REAUTHORIZATION ACT (MACRA) FUNDING OPPORTUNITY: MEASURE DEVELOPMENT FOR THE QUALITY PAYMENT PROGRAM		PASS-THROUGH	MATHEMATICA, INC	50890506941	163,859	
93.986	INTERNATIONAL RESEARCH AND RESEARCH TRAINING		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		28,428	
93.989	INTERNATIONAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	DUKE UNIVERSITY	A032249	7,616,290	3,052,332
93.989	INTERNATIONAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	LOMA LINDA UNIVERSITY	2170175:3	168,270	
93.989	INTERNATIONAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	MAKERERE UNIVERSITY	CHS062017	8,941	
93.989	INTERNATIONAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	MAKERERE UNIVERSITY	MAKCHS23/2019	19,817	
93.989	INTERNATIONAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES	1R25-04	10,931	
93.989	INTERNATIONAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	NORTHWESTERN UNIVERSITY	NU-D9796	17,619	
93.989	INTERNATIONAL RESEARCH AND RESEARCH TRAINING		PASS-THROUGH	YALE UNIVERSITY	GR102957 (CON-80001272)	15,985	
93.998	AUTISM AND OTHER DEVELOPMENTAL DISABILITIES, SURVEILLANCE, RESEARCH, AND PREVENTION		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		41,003	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	125745C	752,647	28,059
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	2020-1413	(117,398)	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75D30120C08009	(26,758)	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	A21-2985 - AMEND #1	1,250,341	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	13303SC	30,420	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	20221488-009	4,594	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	D-8977	20,528	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	D-9732	481,457	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	COLUMBIA UNIVERSITY	D-9732	388,332	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	DUKE UNIVERSITY	NHLBI-D7889	178,784	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	NYU LANGONE HEALTH SYSTEM	20211641	63,436	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	NYU LANGONE HEALTH SYSTEM	20212020	11,920	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	PPD INC.	A136563	127,364	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	PPD INC.	D/A5401	1,713	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	STANFORD UNIVERSITY	2/A5401	5,300	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	62473209-193169	18,780	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	THE GENERAL HOSPITAL CORPORATION	30065734_ADLER	6,688	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	THE SCRIPPS RESEARCH INSTITUTE	GHC-D9486	111,856	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	UNIVERSITY OF CHICAGO	Sub 5-57733 (75D30120C09795)	801,291	87,600
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD101462-V	37,282	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD101462-R	72,653	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	UNIVERSITY OF GEORGIA	SUB00002154	56,276	33,568
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	UNIVERSITY OF MICHIGAN	3006277387-005	14,875	

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	UNIVERSITY OF MINNESOTA	P008936301	27,079	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC12375	459,646	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000001006	22,646	
93.RD	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC89538	373,181	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	011741		269,957	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	200-2009-32597		(166)	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	201PA2008119		39,113	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	201PA2014061		45,222	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75A50119C00038		(259)	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75D30119C06225		(9,697)	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75D30119C06582		71,733	19,339
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75F40119C10054		98,629	45,492
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75F40119C10128		693,703	374,205
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75N910180000032		4,619,995	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75N92020F00001		513,425	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75N94020F00001		14,653	4,016
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	N261201800032I		64,343	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	NIH-5585744		14,925	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75N92019P00353		56,110	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	17C0102		2,907	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	R21INS121805		182,713	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	1K01ODD030513		118,670	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	I32E5033540-01		64,085	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	21PA2116238		38,205	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	30136129		4,615	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	IPA JOSEPH		1,021	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	P01HD106414		966,316	230,152
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	A21-0751-5003		11,189	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	A21-1551-5002		58,884	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	00010908		15,366	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	A17-0003-5007		329	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	K23MD015044		71,848	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	IPA Roach		77,803	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	000704765		3,945	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	R01NS125404		31,310	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	10880SC		(5,373)	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	A15-0196		213,014	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75N9402000002		12,484	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	U10HA29292		(1,576)	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	HHSN27500003		62,270	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	NCL-34D50		280,246	65,573
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	2R01MH087450		295,548	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	1K24AR077313-01A1		217,774	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75N92019D00040		(565)	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	AN-0007		927	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	R01HL1		473,210	51,381
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	R01AG0		1,962,857	493,813
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	1R01AG070647		223,538	115,858
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	HHSN27500002		9,364	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	3U01A1A15184		58,830	58,830
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	N92021F00001		19,986	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75N94021D00008		208,579	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75N94021F00001		49,689	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	21081052		750	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	N275201300006I		79,464	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	D-8884		664,184	101,944
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	D-9820		273,745	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	UCSF 12589sc (75D30120C09431)		25,404	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	FDA 75D38		9,985	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	FDA 76D65		1,827	
93.RD	FEDERAL CONTRACTS	DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	F20AC1149		63,278	
93.RD	FEDERAL CONTRACTS	DIRECT	UC LAWRENCE BERKELEY LABORATORY	7595186		133,500	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	ALLIANCE FOR CLINICAL TRIALS IN ONCOLOGY	Sub 20202533		5,790	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	AMERICAN PUBLIC HEALTH ASSOCIATION	SB200055		4,633	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	ASSOCIATION OF AMERICAN MEDICAL COLLEGES	AAMC-B3D69		8,191	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON	FY21TN505		1,091,924	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	BOSTON UNIVERSITY	4500042454		160,629	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	BUTO CORPORATION	A22-2761		5,065	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	16-10014		87,123	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	CANCER RESEARCH UK	CGCSDF-2021		40,980	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	CERUS CORPORATION	HHS01020		2,871	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	CHILDREN'S HOSPITAL CORP. (THE), BOSTON, MASS.	GENFD0002078935		30,960	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	CHILDREN'S HOSPITAL LOS ANGELES	2R01DK110 sub (000013869-B)		2,417	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	CHILDREN'S HOSPITAL OF PHILADELPHIA	201702084		159	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	COLUMBIA UNIVERSITY	1(GG013668-01)		49,129	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	COLUMBIA UNIVERSITY	G15865 (HS026493-04)		12,962	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	COLUMBIA UNIVERSITY	201601616		(124)	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	CONTRAFECT CORPORATION	30135188		17,756	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	E0918-053		11,098	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	DANA-FARBER CANCER INSTITUTE, INC.	E0918-000		1,665	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	DUKE UNIVERSITY	20194503		3,555	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	DUKE UNIVERSITY	HHSN-27520100003I		18,603	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	DUKE UNIVERSITY	A035090		35,583	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	EKO DEVICES, INC	001		32,649	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	EMI ADVISORS LLC	MSA-EMI-UCSF-211220		98,230	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	EPIGEN BIOSCIENCES, INC.	Sub 30028166 (DK127879)		56,732	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	EPIGEN BIOSCIENCES, INC.	20091228		154,981	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	ESSENTIAL ACCESS HEALTH	E0526		148,922	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	EYDIS BIO, INC.	A22-3740		9,238	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	FAMILY HEALTH CENTERS OF SAN DIEGO, INC	SUB 30092011 (P06HA39497)		9,709	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	FAST-TRACK DRUGS & BIOLOGICS, LLC	HHSN2750		53,013	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	FRED HUTCHINSON CANCER CENTER	Sub 0001063247 (75B92021D0001)		23,643	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	HEALTH AND ENVIRONMENTAL SCIENCES INSTITUTE	A20-3686		9,033	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	HENNEPIN HEALTHCARE RESEARCH INSTITUTE	75N94019C00006		32,253	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	HENNEPIN HEALTHCARE RESEARCH INSTITUTE	75R60220C00011		78,775	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	7UM1CA121947-15		360,233	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	IMS GOVERNMENT SOLUTIONS INC.	SC-UCLA001		(7,041)	
93.RD	FEDERAL CONTRACTS	PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	158324		155,699	

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93.RD	FEDERAL CONTRACTS		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	Sub 2004857708 (UG3AR07736)	20,955	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	JOHNS HOPKINS UNIVERSITY	HHSP23201500020I	(645)	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	KAISER FOUNDATION RESEARCH INSTITUTION	KAISER-D9424	265,156	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	LA JOLLA INSTITUTE FOR IMMUNOLOGY	sub 20071-01-144-403 (CA256...	41,295	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B645173	24,142	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	LEIDOS BIOMEDICAL RESEARCH, INC.	16X114	254,076	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	LEIDOS BIOMEDICAL RESEARCH, INC.	Sub 20X010F(75N91019D00024)	2,624	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	LEIDOS BIOMEDICAL RESEARCH, INC.	22CTA-DM0004	84,833	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	LEIDOS BIOMEDICAL RESEARCH, INC.	15X159	1,077	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	LUNDQUIST INSTITUTE FOR BIOMEDICAL INNOVATION AT HARBOUR-UCLA	HHSN2752013000241I	548,602	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	MALCOVA LLC	A20-3127	571	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	MEDICAL SCIENCE AND COMPUTING, LLC	S-2022-001-USCF-BCBB	48,670	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL OPINION RESEARCH CENTER	8617.SIREN.01	17,613	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL SOCIETY TO PREVENT BLINDNESS	A133119	969	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	NET ESOLUTIONS CORPORATION	NETE_UCSF_NIAIDSEB	262,129	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	NIGHTINGALE LABS CORPORATION	30116600	50,450	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	NO/AIDS TASK FORCE	R01 MH128049-01	22,661	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, INC	NCIRE-E0792	103,098	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHWESTERN UNIVERSITY	010555	316,875	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHWESTERN UNIVERSITY	NU-87717	236,890	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	NORTHWESTERN UNIVERSITY	NU 60047648	76,248	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	NRG ONCOLOGY	GY018	13,902	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	NVIGEN INC.	A20-2182	25,025	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	OLOGY BIOSERVICES, INC.	23SEP2019-STRINGER-USCF-R	457,467	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	OREGON HEALTH & SCIENCE UNIVERSITY	201500026	11	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	PHOENIX CHILDREN'S HOSPITAL	sub- (SITZMAN-20-09) (DE029...	15,554	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	PUBLIC HEALTH INSTITUTE	01906	15,337	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	PUBLIC HEALTH INSTITUTE	AR03241	9,794	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	RAND CORPORATION	9920190075	20,685	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	RENDEVER	SB220036	172,884	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	REVERAGEN BIOPHARMA, INC.	A18-2621	38,925	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	RICE UNIVERSITY	R23462	15,149	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	RTI INTERNATIONAL	29-312-0214448-65402L	173,351	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	RTI INTERNATIONAL	21-312-0217571-66106L:2	3,020,325	1,235,725
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	RTI INTERNATIONAL	A137248	36,001	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	SAN DIEGO COUNTY	565625	53,572	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	SAN DIEGO COUNTY	20201401	647,959	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE	70641-13628-USCD (CA262794)	13,376	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-SSS-S-19-005748	(4,636)	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-SSS-S-16-005087	(27)	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	SOCIAL AND SCIENTIFIC SYSTEMS, INC.	CRB-UWA51-S-11-00021	1,170	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	STANFORD UNIVERSITY	STANFORD-D9699	87,277	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	SWOG	SUB 30029327(NIH)	3,203	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	THERANOVA, LLC	TNV 1012	24,734	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	TRISTAN TECHNOLOGIES	010503	34,369	

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93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY AT BUFFALO (A STATE UNIVERSITY OF NEW YORK CAMPUS	R1317019	60,093	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF ARIZONA	Sub 20160294 (HHSN261201200031	20,172	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF ARIZONA	306440:4	114,394	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF CHICAGO	AWD101462-Q	223,525	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF COLORADO SYSTEM	FY20.1010.002	146,803	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF FLORIDA	SUB00002643 (U01NS119562)	19,593	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF GEORGIA	SUB00002154:3	419,378	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF IOWA	A18-1058	10,464	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MINNESOTA	MINN-E0217	11,545	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF MISSISSIPPI	66111350819-07	33,644	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF NORTH TEXAS	0038	184,753	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF PITTSBURGH	AWD00002935	6,652	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTH CAROLINA	22-465	23,131	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTH FLORIDA	6143-1238-00-A (GM142110)	6,976	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	011656	83,865	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC12374	700,086	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	5004140691	(367)	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	762195	1,035	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC12411	111,114	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC100499	3,294	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	VITALANT	11736UCSFCH0142	60,317	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	VITALANT	VITA-D9221	44,060	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	VITALANT	11737UCSF	21,087	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-22-0295 (DA055330)	404,121	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	WESTAT	SUB 6019-520 (HHSN261201700...	48,001	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	WESTAT	6579-511/HHSN275201800001	307,704	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	WESTAT	20221488-06	23,693	
93.RD	FEDERAL CONTRACTS		PASS-THROUGH	WINSANTOR INC	Sub 30086093 (CA265565)	27,392	
94.006	AMERICORPS		PASS-THROUGH	CALIFORNIA VOLUNTEERS, OFFICE OF THE GOVERNOR	ACY27FH	699,215	
94.006	AMERICORPS		PASS-THROUGH	CALIFORNIA VOLUNTEERS, OFFICE OF THE GOVERNOR	20A-FHY2H	271,276	
94.006	AMERICORPS		PASS-THROUGH	JUMPSTART FOR YOUNG CHILDREN, INC.	3320200	17,482	
94.026	NATIONAL SERVICE AND CIVIC ENGAGEMENT RESEARCH COMPETITION		DIRECT	CORPORATION FOR NATIONAL AND COMMUNITY SERVICE (NCSC)		25,841	
94.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA VOLUNTEERS, OFFICE OF THE GOVERNOR	17AFHY26F212	6,012	
94.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA VOLUNTEERS, OFFICE OF THE GOVERNOR	ACY26-F136	(597)	
94.RD	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA VOLUNTEERS, OFFICE OF THE GOVERNOR	EA1-F21H	80,568	
95.RD	FEDERAL CONTRACTS		DIRECT	EXECUTIVE OFFICE OF THE PRESIDENT	IPA CEAP21C11	18,743	
95.RD	FEDERAL CONTRACTS		DIRECT	EXECUTIVE OFFICE OF THE PRESIDENT	2020-20090400002	147,944	
96.007	SOCIAL SECURITY RESEARCH AND DEMONSTRATION		PASS-THROUGH	UNIVERSITY OF MICHIGAN	SUBK00014586	46,635	
97.012	BOATING SAFETY FINANCIAL ASSISTANCE		PASS-THROUGH	CALIFORNIA DIVISION OF BOATING AND WATERWAYS	C8964310	29,095	
97.012	BOATING SAFETY FINANCIAL ASSISTANCE		PASS-THROUGH	CALIFORNIA DIVISION OF BOATING AND WATERWAYS	C8965327	31,640	
97.030	COMMUNITY DISASTER LOANS		PASS-THROUGH	CALIFORNIA MENTAL HEALTH SERVICES AUTHORITY	700-FE-2021	873,059	
97.036	COVID-19 - DISASTER GRANTS-PUBLIC ASSISTANCE (PRESIDENTIALLY DECLARED DISASTERS)	COVID-19	PASS-THROUGH	ORANGE COUNTY HEALTH CARE AGENCY	OCHCA-77547	(157)	
97.043	STATE FIRE TRAINING SYSTEMS GRANTS		PASS-THROUGH	SALK INSTITUTE FOR BIOLOGICAL STUDIES	SUB 20174100-SIBS (EMW-2016-FP	(2,898)	
97.044	ASSISTANCE TO FIREFIGHTERS GRANT		PASS-THROUGH	NORTHEASTERN UNIVERSITY	505166-78052	35,046	
97.061	CENTERS FOR HOMELAND SECURITY		PASS-THROUGH	GEORGE MASON UNIVERSITY	E2049991	109,315	
97.077	HOMELAND SECURITY RESEARCH, DEVELOPMENT, TESTING, EVALUATION, AND DEMONSTRATION OF TECHNOLOGIES RELATED TO NUCLEAR THREAT DETECTION		DIRECT	DEPARTMENT OF HOMELAND SECURITY (DHS)		311,679	46,811
97.108	HOMELAND SECURITY, RESEARCH, TESTING, EVALUATION, AND DEMONSTRATION OF TECHNOLOGIES		DIRECT	DEPARTMENT OF HOMELAND SECURITY (DHS)		1,526	
97.RD	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF HOMELAND SECURITY (DHS)	140D7018C0010	(1,087)	
97.RD	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	2334	17,452	
98.001	COVID-19 - USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	COVID-19	PASS-THROUGH	TUFTS UNIVERSITY	AI9014	122,018	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		DIRECT	U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)		6,077,254	2,159,115
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	AMERICAN UNIVERSITY IN CAIRO	A19-0607-001	196,505	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	ASTRAEA NATIONAL LESBIAN ACTION FOUNDATION	GLHRP--15--1	(1,508)	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	GEORGETOWN UNIVERSITY	AID-OAA-A-15-00042	512,193	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	INNOVATIONS FOR POVERTY ACTION	048577	32,684	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	MICHIGAN STATE UNIVERSITY	RC108887	113,748	75,000
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	NATIONAL ACADEMY OF SCIENCES	2000010568	27,492	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	NATIONAL ACADEMY OF SCIENCES	2000007143:04	1,634	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	NATIONAL ACADEMY OF SCIENCES	2000009144	57,446	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	NATIONAL ACADEMY OF SCIENCES	200001	19,381	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	PARTNERS IN HOPE (MALAWI)	20191959	58,189	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	PARTNERS IN HOPE (MALAWI)	72061219CA00003:8	787,826	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	UNIVERSITY RESEARCH CO., LLC	041898	994,974	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	WITS HEALTH CONSORTIUM (PTY) LIMITED	A133275	64,284	
98.006	FOREIGN ASSISTANCE TO AMERICAN SCHOOLS AND HOSPITALS ABROAD (ASHA)		DIRECT	U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)		51,027	40,089
98.011	GLOBAL DEVELOPMENT ALLIANCE		PASS-THROUGH	NATIONAL ACADEMY OF SCIENCES	2000008303:01	(4,976)	
98.012	USAID DEVELOPMENT PARTNERSHIPS FOR UNIVERSITY COOPERATION AND DEVELOPMENT		PASS-THROUGH	CONCERN FOUNDATION, THE	A20-0776-001	40,254	
98.RD	FEDERAL CONTRACTS		DIRECT	U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)	7200AA19LE00004	4,750,883	3,054,918

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98.RD	FEDERAL CONTRACTS	PASS-THROUGH	ASTRAEA NATIONAL LESBIAN ACTION FOUNDATION	20201959		26,144	
98.RD	FEDERAL CONTRACTS	PASS-THROUGH	BOSTON UNIVERSITY	4500004035		10,480	
98.RD	FEDERAL CONTRACTS	PASS-THROUGH	JSI RESEARCH AND TRAINING INSTITUTE, INC.	UCD-UAN-1		362,893	
98.RD	FEDERAL CONTRACTS	PASS-THROUGH	MICHIGAN STATE UNIVERSITY	011520		83,501	(12,500)
98.RD	FEDERAL CONTRACTS	PASS-THROUGH	NATIONAL ACADEMY OF SCIENCES	2000007151		42,661	
98.RD	FEDERAL CONTRACTS	PASS-THROUGH	NEVADA SYSTEM OF HIGHER EDUCATION	UNR 17-70		37,351	
98.RD	FEDERAL CONTRACTS	PASS-THROUGH	UNIVERSITY OF GEORGIA	SUB00002076		178,820	71,414
RESEARCH AND DEVELOPMENT CLUSTER Total						<u>4,437,390,613</u>	<u>516,043,313</u>

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TRIO CLUSTER							
84.042	TRIO-STUDENT SUPPORT SERVICES		DIRECT	DEPARTMENT OF EDUCATION (ED)		2,223,398	
84.044	TRIO-TALENT SEARCH		DIRECT	DEPARTMENT OF EDUCATION (ED)		4,200,874	
84.047	TRIO-UPWARD BOUND		DIRECT	DEPARTMENT OF EDUCATION (ED)		6,878,974	
84.217	TRIO-MCNAIR POST-BACCALAUREATE ACHIEVEMENT		DIRECT	DEPARTMENT OF EDUCATION (ED)		1,672,859	
TRIO CLUSTER Total						14,976,105	

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SNAP CLUSTER							
10.561	STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	20-10333	1,563,307	
10.561	STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	20-10936	124,396	
10.561	STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	18-3056	6,493,490	268,219
10.561	STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	18-3110	241,962	
10.561	STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	A22-0055-S047	3,238	
10.561	STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	79D32-000	5,305,699	96,025
10.561	STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM		PASS-THROUGH	CHICO STATE ENTERPRISES	SUB 18-051(18-7015)	9,583	
10.561	STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM		PASS-THROUGH	CHICO STATE ENTERPRISES	SUB18-049	9,842	
10.561	STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM		PASS-THROUGH	CHICO STATE ENTERPRISES	SUB18-064	35,690	
10.561	STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM		PASS-THROUGH	CHICO STATE ENTERPRISES	A22-0055-S049	55,159	
10.561	STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM		PASS-THROUGH	CHICO STATE ENTERPRISES	CH-SUB1	23,370	
10.561	STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM		PASS-THROUGH	CHICO STATE ENTERPRISES	22-0055-S045	30,519	
SNAP CLUSTER Total						13,896,255	364,244

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FEDERAL TRANSIT CLUSTER							
20.507	FEDERAL TRANSIT-FORMULA GRANTS		PASS-THROUGH	DAVIS, CITY OF	201701915	(23,514)	
20.507	FEDERAL TRANSIT-FORMULA GRANTS		PASS-THROUGH	DAVIS, CITY OF	A20-2871	962,256	
20.507	FEDERAL TRANSIT-FORMULA GRANTS		PASS-THROUGH	DAVIS, CITY OF	A21-4294	3,462,453	
FEDERAL TRANSIT CLUSTER Total						4,402,195	

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HIGHWAY SAFETY CLUSTER							
20.600	STATE AND COMMUNITY HIGHWAY SAFETY		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PS20022	(78)	
20.600	STATE AND COMMUNITY HIGHWAY SAFETY		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PS20023	(112)	
20.600	STATE AND COMMUNITY HIGHWAY SAFETY		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PT21128	101,702	
20.600	STATE AND COMMUNITY HIGHWAY SAFETY		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PT22095	189,699	
20.600	STATE AND COMMUNITY HIGHWAY SAFETY		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR19009	1,076	
20.600	STATE AND COMMUNITY HIGHWAY SAFETY		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PT18150	7,004	
20.600	STATE AND COMMUNITY HIGHWAY SAFETY		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR22013	936,215	
20.600	STATE AND COMMUNITY HIGHWAY SAFETY		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PS22020	859,158	279,280
20.600	STATE AND COMMUNITY HIGHWAY SAFETY		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PS22021	233,405	
20.600	STATE AND COMMUNITY HIGHWAY SAFETY		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PT20130	(3,081)	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PS19024	1,564	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PS21031	487,599	279,674
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	PS21033	223,221	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR20004	(2,388)	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR20006	(13)	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR20007	(130)	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR20008	(130)	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR21049	351,598	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR21050	70,765	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR21052	63,635	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR21058	101,073	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR21059	28,563	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR22016	161,729	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR22014	65,263	
20.616	NATIONAL PRIORITY SAFETY PROGRAMS		PASS-THROUGH	CALIFORNIA OFFICE OF TRAFFIC SAFETY	TR22015	178,952	
HIGHWAY SAFETY CLUSTER Total						<u>4,056,289</u>	<u>558,954</u>

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477 CLUSTER							
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	ALAMEDA COUNTY	13284	266,355	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	ALPINE, COUNTY OF	GENT-2021-01	24,506	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	AMADOR, COUNTY OF	GENT-2021-02	9,998	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	BUTTE, COUNTY OF	EW-2021-03	23,181	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	CALIFORNIA TRIBAL TANF PARTNERSHIP	C000114258	22,676	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	CITY OF LOS ANGELES ECONOMIC AND WORKFORCE DEVELOPMENT DEPARTMENT	C139198	432,414	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	CITY OF LOS ANGELES ECONOMIC AND WORKFORCE DEVELOPMENT DEPARTMENT	C-136416:1	(22,822)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	CITY OF LOS ANGELES ECONOMIC AND WORKFORCE DEVELOPMENT DEPARTMENT	C-130396	(6,431)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	COLUSA, COUNTY OF	EW-2021-05	36,657	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	COLUSA, COUNTY OF	C000113976	(276)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	COUNTY OF MARIN	GENT-2021-17	177,882	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	COUNTY OF MARIN	C000113988	(3,401)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	COUNTY OF PLUMAS	EW-2021-26	4,743	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	COUNTY OF SOLANO	GENT-2021-32	104,346	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	COUNTY OF SOLANO	C000114103	(316)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	COUNTY OF SOLANO	WK-2017-32	(2,295)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	DEL NORTE COUNTY	EW-2021-06	38,268	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	DEL NORTE COUNTY	CW-2021-06	34,206	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	EL DORADO, COUNTY OF	GENT-2021-07	88,932	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	EL DORADO, COUNTY OF	GENT-2018-07; 2913	6,197	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	GLENN, COUNTY OF	EW-2021-09	10,509	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	GLENN, COUNTY OF	C000114262	30,184	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	HUMBOLDT COUNTY	EW-2021-10	61,659	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	INYO, COUNTY OF	C000114256	76,281	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	KERN COUNTY	GENT-2021-12	125,690	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	KINGS, COUNTY OF	GENT-2021-13	49,253	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	KINGS, COUNTY OF	EW-2018-13	(383)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	KINGS, COUNTY OF	GENT-2020-13	94,860	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	LAKE, COUNTY OF	EW-2021-14	26,482	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	LAKE, COUNTY OF	EW-2017-14	(1,913)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	MADERA, COUNTY OF	EW-2021-16	69,564	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	MARIPOSA, COUNTY OF	GENT-2021-18	20,948	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	MODOC, COUNTY OF	GENT-2021-20	48,337	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	MONO, COUNTY OF	CW-2021-21	18,972	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	MONO, COUNTY OF	EW-2021-21	22,529	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	MONO, COUNTY OF	C000114075	(395)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	MONO, COUNTY OF	C000114080	(4,348)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	MONTEREY COUNTY	GENT-2021-22	151,474	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	MONTEREY COUNTY	C000114141	(4,125)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	MONTEREY COUNTY	GENT-2018-22	(2,765)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	NAPA, COUNTY OF	GENT-2021-23	58,358	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	NAPA, COUNTY OF	C000113893	(12,750)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	NEVADA, COUNTY OF	EW-2021-24	44,818	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	NEVADA, COUNTY OF	EW-2017-24	(21,803)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	PLACER, COUNTY OF	EW-2021-25	10,695	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	PLACER, COUNTY OF	A65935	5,812	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SAN BENITO, COUNTY OF	EW-2021-27	4,743	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SAN BENITO, COUNTY OF	GENT-2021-27	13,439	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SAN BENITO, COUNTY OF	EW-2017-27	(3,825)	

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93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SAN JOAQUIN COUNTY	EW-2021-28	83,793	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SAN LUIS OBISPO, COUNTY OF	GENT-202	36,363	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SAN MATEO COUNTY	GENT-2019-53	12,648	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SAN MATEO COUNTY	C000113997	(8,500)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SAN MATEO COUNTY	GENT-2021-53	30,039	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SANTA CRUZ, COUNTY OF	CW-2021-56	159,912	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SANTA CRUZ, COUNTY OF	C000114135	2,073	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SANTA CRUZ, COUNTY OF	EW-2017-56	(1,913)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SHASTA, COUNTY OF	GENT-2021-29	27,686	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SIERRA, COUNTY OF	EW-2021-30	4,185	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SISKIYOU, COUNTY OF	GENT-2021-31	5,525	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SISKIYOU, COUNTY OF	C000113941	862	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	STANISLAUS, COUNTY OF	GENT-2021-34	174,701	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SUTTER COUNTY	GENT-2021-35	82,212	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	SUTTER COUNTY	GENT-2018-35	(573)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	TEHAMA, COUNTY OF	WK-2020.36	791	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	TRINITY, COUNTY OF	EW-2021-37	20,949	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	TRINITY, COUNTY OF	EW-2018-37	(3,825)	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	TUOLUMNE, COUNTY OF	EW-2021-39	20,739	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	YOLO COUNTY	GENT-2021-40	52,731	
93.558	TEMPORARY ASSISTANCE FOR NEEDY FAMILIES (TANF)		PASS-THROUGH	YOLO COUNTY	EW-2018-40	(1,414)	
93.569	COVID-19 - COMMUNITY SERVICES BLOCK GRANT	COVID-19	PASS-THROUGH	COMMUNITY ACTION PARTNERSHIP OF ORANGE COUNTY	CAP-5609521	128,369	
477 CLUSTER Total						<u>2,954,473</u>	

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HEAD START CLUSTER							
93.600	COVID-19 - HEAD START	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		73,398	
93.600	HEAD START		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	20111273	1,556,900	5,200
93.600	HEAD START		PASS-THROUGH	CALIFORNIA MEDICAL CENTER		185,306	
93.600	HEAD START		PASS-THROUGH	EDUCATION DEVELOPMENT CENTER, INC.	EDCH 12555 (2020-0015)	344,290	
93.600	HEAD START		PASS-THROUGH	GEOGETOWN UNIVERSITY	411725_GR424357_UCSF	212,346	
93.600	HEAD START		PASS-THROUGH	UNIVERSITY OF MASSACHUSETTS AMHERST	UCLA-PMFO 2.0-1	287,689	
HEAD START CLUSTER Total						2,659,929	5,200

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CCDF CLUSTER							
93.575	CHILD CARE AND DEVELOPMENT BLOCK GRANT		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	A18-0149-005	115,433	
93.575	CHILD CARE AND DEVELOPMENT BLOCK GRANT		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	CCTR-0166	(103,028)	
93.575	CHILD CARE AND DEVELOPMENT BLOCK GRANT		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	CCTR-9162	(3,146)	
93.575	CHILD CARE AND DEVELOPMENT BLOCK GRANT		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	CSPP-0367	(11,241)	
93.575	CHILD CARE AND DEVELOPMENT BLOCK GRANT		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	CSPP8555	(1,737)	
93.575	CHILD CARE AND DEVELOPMENT BLOCK GRANT		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	18228-000	372,909	
93.575	CHILD CARE AND DEVELOPMENT BLOCK GRANT		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	18229-000	135,661	
93.575	CHILD CARE AND DEVELOPMENT BLOCK GRANT		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	CCTR-1267	36,079	
93.575	CHILD CARE AND DEVELOPMENT BLOCK GRANT		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	CCTR-1134	437,520	
93.575	CHILD CARE AND DEVELOPMENT BLOCK GRANT		PASS-THROUGH	UNIVERSITY OF VIRGINIA	GB10776.PO #2247305	54,340	
93.596	CHILD CARE MANDATORY AND MATCHING FUNDS OF THE CHILD CARE AND DEVELOPMENT FUND		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	A18-0148-005	558,928	
93.596	CHILD CARE MANDATORY AND MATCHING FUNDS OF THE CHILD CARE AND DEVELOPMENT FUND		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	CCTR0258	(2,827)	
93.596	CHILD CARE MANDATORY AND MATCHING FUNDS OF THE CHILD CARE AND DEVELOPMENT FUND		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	CSPP8555	(3,617)	
93.596	CHILD CARE MANDATORY AND MATCHING FUNDS OF THE CHILD CARE AND DEVELOPMENT FUND		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	CCTR-1267	68,802	
CCDF CLUSTER Total							<u>1,654,076</u>

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ECONOMIC DEVELOPMENT CLUSTER							
11.307	COVID-19 - ECONOMIC ADJUSTMENT ASSISTANCE	COVID-19	DIRECT	DEPARTMENT OF COMMERCE (DOC)		126,806	
11.307	ECONOMIC ADJUSTMENT ASSISTANCE		DIRECT	DEPARTMENT OF COMMERCE (DOC)		1,127,854	
11.307	ECONOMIC ADJUSTMENT ASSISTANCE		PASS-THROUGH	ALAMEDA COUNTY WASTE MANAGEMENT AUTHORITY/STOPWASTE	052917	20,498	
ECONOMIC DEVELOPMENT CLUSTER Total						1,275,158	

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MEDICAID CLUSTER							
93.778	MEDICAL ASSISTANCE PROGRAM		PASS-THROUGH	ALAMEDA COUNTY PUBLIC HEALTH DEPARTMENT	9001592086669	187,429	
93.778	MEDICAL ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	16-93578	(14,306)	
93.778	MEDICAL ASSISTANCE PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	18-95094	228,639	
93.778	MEDICAL ASSISTANCE PROGRAM		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	1000011970	364,981	
93.778	MEDICAL ASSISTANCE PROGRAM		PASS-THROUGH	SAN JOAQUIN COUNTY	XX-2021-28	3,162	
93.778	MEDICAL ASSISTANCE PROGRAM		PASS-THROUGH	YUBA COUNTY	C000114151	47,430	
93.778	MEDICAL ASSISTANCE PROGRAM		PASS-THROUGH	YUBA COUNTY	GENT-2021-41	7,090	
MEDICAID CLUSTER Total						824,425	

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WOIA CLUSTER							
17.258	WIOA ADULT PROGRAM		PASS-THROUGH	HOSPITALITY INDUSTRY TRAINING AND EDUCATION FUND	49427-Z3016202:B	658	
17.259	WIOA YOUTH ACTIVITIES		PASS-THROUGH	CITY OF LOS ANGELES	T6709/C136079	(3,366)	
17.259	WIOA YOUTH ACTIVITIES		PASS-THROUGH	CITY OF LOS ANGELES	T6244	(37,099)	
17.259	WIOA YOUTH ACTIVITIES		PASS-THROUGH	CITY OF LOS ANGELES	T6376	(110,472)	
17.259	WIOA YOUTH ACTIVITIES		PASS-THROUGH	CITY OF LOS ANGELES	T6906	621,501	
17.259	WIOA YOUTH ACTIVITIES		PASS-THROUGH	LOS ANGELES UNIFIED SCHOOL DISTRICT STUDENT HEALTH SERVICES	20184321	20,001	
WIOA CLUSTER Total						491,223	

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HIGHWAY PLANNING AND CONSTRUCTION							
20.205	HIGHWAY PLANNING AND CONSTRUCTION		PASS-THROUGH	CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION	65A0697-CYC1	272,521	4,565
20.205	HIGHWAY PLANNING AND CONSTRUCTION		PASS-THROUGH	TEXAS A&M UNIVERSITY - COLLEGE STATION	M2101416	116,670	
20.205	HIGHWAY PLANNING AND CONSTRUCTION		PASS-THROUGH	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN	U-087795	5,361	
HIGHWAY PLANNING AND CONSTRUCTION CLUSTER Total						394,552	4,565

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FMCSA CLUSTER							
20.237	MOTOR CARRIER SAFETY ASSISTANCE HIGH PRIORITY ACTIVITIES GRANTS AND COOPERATIVE AGREEMENTS		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		330,486	
FMCSA CLUSTER Total							

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CDBG - ENTITLEMENT GRANTS CLUSTER							
14.218	COMMUNITY DEVELOPMENT BLOCK GRANTS/ENTITLEMENT GRANTS		PASS-THROUGH	CITY OF LOS ANGELES	CLA C-139636	63,173	
14.218	COMMUNITY DEVELOPMENT BLOCK GRANTS/ENTITLEMENT GRANTS		PASS-THROUGH	CITY OF LOS ANGELES ECONOMIC AND WORKFORCE DEVELOPMENT DEPARTMENT	RAS-20907	2,197	
CDBG - ENTITLEMENT GRANTS CLUSTER Total						65,370	

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FISH AND WILDLIFE CLUSTER							
15.611	WILDLIFE RESTORATION AND BASIC HUNTER EDUCATION		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	P1760025	24,068	
	FISH AND WILDLIFE CLUSTER Total					24,068	

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OTHER FEDERAL PROGRAMS							
10.001	AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		173,508	
10.001 Total						173,508	
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		234,500	
10.025	PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE		PASS-THROUGH	CORNELL UNIVERSITY	AP20VSD&B000C020	11,139	
10.025 Total						245,639	
10.167	TRANSPORTATION SERVICES		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		20,132	
10.167 Total						20,132	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	18-0001-042-SC	(57)	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	17-0727001-SF	(1,488)	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	A22-0334	66,545	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	A22-0951	18,713	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0433-1	21,510	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	Cdfa-85D55	1,897	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	Cdfa-84D10	32,216	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	COMMUNITY ALLIANCE WITH FAMILY FARMERS	Y21-	10,200	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	CONTRA COSTA RESOURCE CONSERVATION DISTRICT	Y20-5189	3,028	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	HEALTH CARE WITHOUT HARM	Y20-5230	9,606	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	OXIDENTAL COLLEGE	20-0001-019-SF	25,909	
10.170	SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL		PASS-THROUGH	ORGANIC FARMING RESEARCH FOUNDATION	SA21-54	9,997	
10.170 Total						198,076	
10.175	FARMERS MARKET AND LOCAL FOOD PROMOTION PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		40,705	
10.175 Total						40,705	
10.210	HIGHER EDUCATION – GRADUATE FELLOWSHIPS GRANT PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		121,318	
10.210 Total						121,318	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G118-21-W7506	11,714	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G347-20-W7904	5,538	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G159-19-W7506	2	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G158-21-W7906	16,701	8,946
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G174-20-W7503	5,401	
10.215	SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION		PASS-THROUGH	MONTANA STATE UNIVERSITY	G105-22-W8	33,242	
10.215 Total						72,598	8,946
10.217	HIGHER EDUCATION - INSTITUTION CHALLENGE GRANTS PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		31,767	
10.217 Total						31,767	
10.219	BIOTECHNOLOGY RISK ASSESSMENT RESEARCH		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		3,000	
10.219 Total						3,000	
10.223	HISPANIC SERVING INSTITUTIONS EDUCATION GRANTS		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		269,609	
10.223 Total						269,609	
10.304	HOMELAND SECURITY AGRICULTURAL		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		146,366	
10.304 Total						146,366	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	MISSISSIPPI STATE UNIVERSITY	014600.3270	1,571	
10.309	SPECIALTY CROP RESEARCH INITIATIVE		PASS-THROUGH	THE TEXAS A&M UNIVERSITY SYSTEM	M220	10,130	
10.309 Total						11,701	
10.310	AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		228,428	
10.310 Total						228,428	
10.328	NATIONAL FOOD SAFETY TRAINING, EDUCATION, EXTENSION, OUTREACH, AND TECHNICAL ASSISTANCE COMPETITIVE GRANTS PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		24,474	
10.328	NATIONAL FOOD SAFETY TRAINING, EDUCATION, EXTENSION, OUTREACH, AND TECHNICAL ASSISTANCE COMPETITIVE GRANTS PROGRAM		PASS-THROUGH	INTERNATIONAL RESCUE COMMITTEE, INC	CO-2019-70020-	25,699	
10.328	NATIONAL FOOD SAFETY TRAINING, EDUCATION, EXTENSION, OUTREACH, AND TECHNICAL ASSISTANCE COMPETITIVE GRANTS PROGRAM		PASS-THROUGH	UNIVERSITY OF HAWAII AT MANOA	UH-36873	23,734	
10.328 Total						73,907	
10.329	CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS PROGRAM		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		1,208,778	395,047
10.329 Total						1,208,778	395,047
10.500	COOPERATIVE EXTENSION SERVICE		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		5,533,315	
10.500	COOPERATIVE EXTENSION SERVICE		PASS-THROUGH	EXTENSION FOUNDATION	NTAE-2020-2007	24,016	
10.500	COOPERATIVE EXTENSION SERVICE		PASS-THROUGH	KANSAS STATE UNIVERSITY	A00-0983-5052	23,734	
10.500	COOPERATIVE EXTENSION SERVICE		PASS-THROUGH	KANSAS STATE UNIVERSITY	22-0394-S00	6,550	
10.500	COOPERATIVE EXTENSION SERVICE		PASS-THROUGH	WASHINGTON STATE UNIVERSITY	134194-G004169	18,463	
10.500	COOPERATIVE EXTENSION SERVICE		PASS-THROUGH	WASHINGTON STATE UNIVERSITY	134194-G004168	313	
10.500	COOPERATIVE EXTENSION SERVICE		PASS-THROUGH	WESTERN CENTER FOR RISK MANAGEMENT EDUCATION	134194-SPC002702	53,581	
10.500	COOPERATIVE EXTENSION SERVICE		PASS-THROUGH	WESTERN CENTER FOR RISK MANAGEMENT EDUCATION	WCRM-E-75D98	30,734	
10.500 Total						5,690,706	
10.516	RURAL HEALTH AND SAFETY		DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		52,595	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
10.516 Total						52,595	
10.521 CHILDREN, YOUTH, AND FAMILIES (CYFAR)			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		204,305	78,575
10.521 Total						204,305	78,575
10.522 FOOD AND AGRICULTURE SERVICE LEARNING PROGRAM			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		16,271	
10.522 Total						16,271	
10.557 SPECIAL SUPPLEMENTAL NUTRITION PROGRAM FOR WOMEN, INFANTS, AND CHILDREN (WIC)			PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	20-10848	177,698	
10.557 SPECIAL SUPPLEMENTAL NUTRITION PROGRAM FOR WOMEN, INFANTS, AND CHILDREN (WIC)			PASS-THROUGH	HELUNA HEALTH	Y20-5252	89,920	
10.557 Total						267,618	
10.558 CHILD AND ADULT CARE FOOD PROGRAM (CACFP)			PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	003376	9,781	
10.558 CHILD AND ADULT CARE FOOD PROGRAM (CACFP)			PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	301466-1A	11,912	
10.558 CHILD AND ADULT CARE FOOD PROGRAM (CACFP)			PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	04043CACFP33H	47,515	
10.558 CHILD AND ADULT CARE FOOD PROGRAM (CACFP)			PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	18213-000	22,397	
10.558 Total						91,605	
10.675 URBAN AND COMMUNITY FORESTRY PROGRAM			PASS-THROUGH	CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION	8GA20401	267,116	
10.675 Total						267,116	
10.680 FOREST HEALTH PROTECTION			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		263,496	
10.680 FOREST HEALTH PROTECTION			PASS-THROUGH	CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION	8GA20600	11,453	
10.680 FOREST HEALTH PROTECTION			PASS-THROUGH	CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION	8GA21603	8,554	
10.680 Total						283,503	
10.698 STATE & PRIVATE FORESTRY COOPERATIVE FIRE ASSISTANCE			PASS-THROUGH	NATURE CONSERVANCY	UC COOP EXT FMT 2019	15,679	
10.698 STATE & PRIVATE FORESTRY COOPERATIVE FIRE ASSISTANCE			PASS-THROUGH	NATURE CONSERVANCY	UC COOP SFN 2021	90,439	
10.698 Total						106,118	
10.777 NORMAN E. BORLAUG INTERNATIONAL AGRICULTURAL SCIENCE AND TECHNOLOGY FELLOWSHIP			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		19,841	
10.777 Total						19,841	
10.902 SOIL AND WATER CONSERVATION			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		136,397	
10.902 Total						136,397	
10.912 ENVIRONMENTAL QUALITY INCENTIVES PROGRAM			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		57,665	
10.912 Total						57,665	
10.932 REGIONAL CONSERVATION PARTNERSHIP PROGRAM			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		20,351	18,234
10.932 Total						20,351	18,234
10.960 TECHNICAL AGRICULTURAL ASSISTANCE			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		52,129	
10.960 Total						52,129	
10.962 COCHRAN FELLOWSHIP PROGRAM-INTERNATIONAL TRAINING-FOREIGN PARTICIPANT			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)		(15)	
10.962 Total						(15)	
10.U01 FEDERAL CONTRACTS			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2072-0-030	5,692	
10.U01 Total						5,692	
10.U02 FEDERAL CONTRACTS			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-1127216	52,000	
10.U02 Total						52,000	
10.U03 FEDERAL CONTRACTS			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-0-039	29,317	
10.U03 Total						29,317	
10.U04 FEDERAL CONTRACTS			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2030-0-024	(5)	
10.U04 Total						(5)	
10.U05 FEDERAL CONTRACTS			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272139-069	77,903	
10.U05 FEDERAL CONTRACTS			PASS-THROUGH	UNIVERSITY OF VERMONT	A20-4446	165	
10.U05 Total						78,068	
10.U06 FEDERAL CONTRACTS			PASS-THROUGH	PALO VERDE RESOURCE CONSERVATION DISTRICT	Y17-3973	30,354	
10.U06 Total						30,354	
10.U07 FEDERAL CONTRACTS			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	10469	19,044	
10.U07 Total						19,044	
10.U08 FEDERAL CONTRACTS			PASS-THROUGH	UNIVERSITY OF HAWAII AT MANOA	UH-20E32	310	
10.U08 Total						310	
10.U09 FEDERAL CONTRACTS			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-1-002	77	
10.U09 Total						77	
10.U10 FEDERAL CONTRACTS			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	58-2032-1-005	2,497	
10.U10 Total						2,497	
10.U11 FEDERAL CONTRACTS			PASS-THROUGH	AMERICAN PUBLIC GARDENS ASSOCIATION	A19-	(5,856)	
10.U11 Total						(5,856)	
10.U12 FEDERAL CONTRACTS			PASS-THROUGH	CALIFORNIA CERTIFIED ORGANIC FARMERS FOUNDATION	F-A21	19,935	
10.U12 Total						19,935	
10.U13 COVID-19 - FEDERAL CONTRACTS		COVID-19	PASS-THROUGH	EXTENSION FOUNDATION	EXC1-2021-2067	24,179	
10.U13 Total						24,179	
10.U14 FEDERAL CONTRACTS			PASS-THROUGH	COUNTERPART INTERNATIONAL, INC	A18-1584-5001	94,357	
10.U14 Total						94,357	
10.U15 FEDERAL CONTRACTS			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	19-JV-11272139-046	23,358	
10.U15 Total						23,358	
10.U16 COVID-19 - FEDERAL CONTRACTS		COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE	21-0325-0	32,526	
10.U16 Total						80,483	
10.U17 FEDERAL CONTRACTS			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272139-040	9,856	
10.U17 Total						9,856	
10.U18 FEDERAL CONTRACTS			DIRECT	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	20-JV-11272139-039	9,720	
10.U18 Total						9,720	
10.U19 FEDERAL CONTRACTS			PASS-THROUGH	NATIONAL FISH AND WILDLIFE FOUNDATION	0806.21.0	47,957	
10.U19 Total						47,957	
11.001 CENSUS BUREAU DATA PRODUCTS			DIRECT	DEPARTMENT OF COMMERCE (DOC)		191,765	
11.001 CENSUS BUREAU DATA PRODUCTS			PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, FRESNO FOUNDATION	SC330528-20-14	162,423	
11.001 Total						354,188	
11.U01 FEDERAL CONTRACTS			DIRECT	DEPARTMENT OF COMMERCE (DOC)	21PNB490428	34,141	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
11.U01 Total						34,141	
11.U02	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7599965	73,955	
11.U02 Total						73,955	
11.U03	FEDERAL CONTRACTS		PASS-THROUGH	STARBURST ACCELERATOR, LLC	20205193	187,211	
11.U03 Total						187,211	
12.300	BASIC AND APPLIED SCIENTIFIC RESEARCH		DIRECT	DEPARTMENT OF DEFENSE		7,736	
12.300 Total						7,736	
12.350	COVID-19 - DEPARTMENT OF DEFENSE HIV/AIDS PREVENTION PROGRAM	COVID-19	PASS-THROUGH	SENECA TELECOMMUNICATIONS, LLC	20201077 (HT001119C0017)	121,525	
12.350 Total						121,525	
12.420	MILITARY MEDICAL RESEARCH AND DEVELOPMENT		DIRECT	DEPARTMENT OF DEFENSE		92,076	
12.420 Total						92,076	
12.550	THE LANGUAGE FLAGSHIP GRANTS TO INSTITUTIONS OF HIGHER EDUCATION		DIRECT	DEPARTMENT OF DEFENSE		51,383	
12.550	THE LANGUAGE FLAGSHIP GRANTS TO INSTITUTIONS OF HIGHER EDUCATION		PASS-THROUGH	INSTITUTE OF INTERNATIONAL EDUCATION, INC.	0054-UCLA-10-RUS-280-PO8	(10,320)	
12.550	THE LANGUAGE FLAGSHIP GRANTS TO INSTITUTIONS OF HIGHER EDUCATION		PASS-THROUGH	INSTITUTE OF INTERNATIONAL EDUCATION, INC.	B0R21-UCLA9RUSPO1	322,319	
12.550 Total						363,382	
12.556	COMPETITIVE GRANTS: PROMOTING K-12 STUDENT ACHIEVEMENT AT MILITARY-CONNECTED SCHOOLS		PASS-THROUGH	SAN DIEGO UNIFIED SCHOOL DISTRICT	SUB HE1254-17-1-0003(5V19-0306	(354)	
12.556 Total						(354)	
12.560	DOD, NDEP, DOTC-STEM EDUCATION OUTREACH IMPLEMENTATION		PASS-THROUGH	AMERICAN BURN ASSOCIATION	A20-4405-1	2,699	
12.560 Total						2,699	
12.800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM		DIRECT	DEPARTMENT OF DEFENSE		63,945	
12.800 Total						63,945	
12.900	LANGUAGE GRANT PROGRAM		DIRECT	DEPARTMENT OF DEFENSE		36,931	
12.900 Total						36,931	
12.901	MATHEMATICAL SCIENCES GRANTS		DIRECT	DEPARTMENT OF DEFENSE		14,000	
12.901 Total						14,000	
12.910	RESEARCH AND TECHNOLOGY DEVELOPMENT		PASS-THROUGH	SAN DIEGO COUNTY	SUB 554626	319	
12.910 Total						319	
12.U01	FEDERAL CONTRACTS		PASS-THROUGH	PURDUE UNIVERSITY	1300084B	161,592	
12.U01 Total						161,592	
12.U02	FEDERAL CONTRACTS		PASS-THROUGH	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION, IN	84232 - 01 - 404958	(22,364)	
12.U02 Total						(22,364)	
12.U03	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	A136673	14,121	
12.U03 Total						14,121	
12.U04	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	2021 DOD Desousa	9,354	
12.U04 Total						9,354	
12.U05	FEDERAL CONTRACTS		PASS-THROUGH	SYSTEMS PLUS, INC.	A21-2602	14,808	
12.U05 Total						14,808	
12.U06	FEDERAL CONTRACTS		PASS-THROUGH	AMERICAN BURN ASSOCIATION	201703509	21,977	
12.U06 Total						21,977	
12.U07	FEDERAL CONTRACTS		PASS-THROUGH	LMI GOVERNMENT CONSULTING	A20-2873-001	8,484	
12.U07 Total						8,484	
12.U08	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	N00173-19-P-1671	24,171	
12.U08 Total						24,171	
12.U09	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	HDQMWR-17-C-0010:P00007	4,053,142	189,797
12.U09 Total						4,053,142	189,797
12.U10	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	IPA - JWOO	340,240	
12.U10 Total						340,240	
12.U11	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF DEFENSE	HDQMWR-19-C-0019	1,211,466	193,385
12.U11 Total						1,211,466	193,385
12.U12	FEDERAL CONTRACTS		PASS-THROUGH	LEIDOS, INC.	P010266416	992,922	
12.U12 Total						992,922	
14.267	CONTINUUM OF CARE PROGRAM		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	CCSF LEARY	(1,458)	
14.267 Total						(1,458)	
15.507	WATERSMART (SUSTAIN AND MANAGE AMERICA'S RESOURCES FOR TOMORROW)		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		34,200	
15.507 Total						34,200	
15.614	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION PROGRAM		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		30,223	
15.614 Total						30,223	
15.637	MIGRATORY BIRD JOINT VENTURES		PASS-THROUGH	PHEASANTS FOREVER, INC.	PCSR-FWS 2021-06	89,634	
15.637 Total						89,634	
15.669	COOPERATIVE LANDSCAPE CONSERVATION		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		91,398	
15.669 Total						91,398	
15.805	ASSISTANCE TO STATE WATER RESOURCES RESEARCH INSTITUTES		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		38,974	38,974
15.805 Total						38,974	38,974
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		-	
15.807	EARTHQUAKE HAZARDS PROGRAM ASSISTANCE		PASS-THROUGH	UNIVERSITY OF SOUTHERN CALIFORNIA	USC-72416	27,139	
15.807 Total						27,139	
15.808	U.S. GEOLOGICAL SURVEY RESEARCH AND DATA COLLECTION		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		255,180	
15.808 Total						255,180	
15.904	HISTORIC PRESERVATION FUND GRANTS-IN-AID		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		36,018	
15.904 Total						36,018	
15.922	NATIVE AMERICAN GRAVES PROTECTION AND REPATRIATION ACT		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		30,895	
15.922 Total						30,895	
15.933	PRESERVATION OF JAPANESE AMERICAN CONFINEMENT SITES		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		374,399	
15.933 Total						374,399	
15.945	COOPERATIVE RESEARCH AND TRAINING PROGRAMS – RESOURCES OF THE NATIONAL PARK SYSTEM		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		1,128	
15.945 Total						1,128	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
15.954	NATIONAL PARK SERVICE CONSERVATION, PROTECTION, OUTREACH, AND EDUCATION		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)		1,623,793	
15.954 Total						1,623,793	
15.U01	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	140P2119C0010	237,648	
15.U01 Total						237,648	
15.U02	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	140P2122F0026	1,711,850	
15.U02 Total						1,711,850	
15.U03	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	A20-4079	72	
15.U03 Total						72	
15.U04	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF THE INTERIOR (DOI)	P16AC01575.01	13,102	
15.U04 Total						13,102	
16.525	GRANTS TO REDUCE DOMESTIC VIOLENCE, DATING VIOLENCE, SEXUAL ASSAULT, AND STALKING ON CAMPUS		DIRECT	DEPARTMENT OF JUSTICE (DOJ)		10,081	
16.525 Total						10,081	
16.554	NATIONAL CRIMINAL HISTORY IMPROVEMENT PROGRAM (NCHIP)		PASS-THROUGH	STATE OF CALIFORNIA DEPARTMENT OF JUSTICE	21-0	11,926	
16.554 Total						11,926	
16.560	NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT PROJECT GRANTS		DIRECT	DEPARTMENT OF JUSTICE (DOJ)		29,068	
16.560 Total						29,068	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	012237	163,733	109,894
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	AT20018565	128,451	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	KC20048565	196,156	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	RC20368565	180,158	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	XE21 04 1753	26,775	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	XY20 03 8556	102,496	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	CS20138556	71,722	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	XY20 A3 8556	95,407	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	AT20 01 8556	139,633	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	KC17000041	(2,723)	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	KC19 03 8565	4	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	KC21 05 8565	53,187	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	RC17 33 1141	(25,237)	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	AT210	132,147	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	CS211	71,344	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	87D96-000	64,792	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	RC21378565	509,995	
16.575	CRIME VICTIM ASSISTANCE		PASS-THROUGH	CALIFORNIA PARTNERSHIP TO END DOMESTIC VIOLENCE	A20-0136	881	
16.575 Total			PASS-THROUGH	COUNTY OF LOS ANGELES	XC20 03 0190	35,485	
16.582	CRIME VICTIM ASSISTANCE/DISCRETIONARY GRANTS		PASS-THROUGH	MEDICAL UNIVERSITY OF SOUTH CAROLINA	A00-3311-5002:2	1,944,406	109,894
16.582 Total						(297)	
16.585	DRUG COURT DISCRETIONARY GRANT PROGRAM		PASS-THROUGH	SUPERIOR COURT OF CALIFORNIA, COUNTY OF SAN FRANCISCO	19-036	43,749	
16.585 Total						43,749	
16.726	JUVENILE MENTORING PROGRAM		PASS-THROUGH	NATIONAL 4-H COUNCIL	Y19-4833	3,679	
16.726	JUVENILE MENTORING PROGRAM		PASS-THROUGH	NATIONAL 4-H COUNCIL	Y21-5837	308	
16.726	JUVENILE MENTORING PROGRAM		PASS-THROUGH	NATIONAL 4-H COUNCIL	Y20-5254	27,653	
16.726 Total						31,640	
16.734	SPECIAL DATA COLLECTIONS AND STATISTICAL STUDIES		DIRECT	DEPARTMENT OF JUSTICE (DOJ)		45,515	
16.734 Total						45,515	
16.742	PAUL COVERDELL FORENSIC SCIENCES IMPROVEMENT GRANT PROGRAM		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	CQ20028556	44,256	
16.742 Total						44,256	
16.812	SECOND CHANCE ACT REENTRY INITIATIVE		PASS-THROUGH	ALAMEDA COUNTY PROBATION DEPARTMENT	18853	(65,743)	
16.812	SECOND CHANCE ACT REENTRY INITIATIVE		PASS-THROUGH	ALAMEDA COUNTY PROBATION DEPARTMENT	19369	65,743	
16.812 Total						-	
16.922	EQUITABLE SHARING PROGRAM		PASS-THROUGH	COALITION TO ABOLISH SLAVERY & TRAFFICKING	A136055	33,709	
16.922 Total						33,709	
16.U01	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	CQ19018556	27,599	
16.U01 Total						27,599	
16.U02	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	RC18348565	(32,969)	
16.U02 Total						(32,969)	
16.U03	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF JUSTICE (DOJ)	20204639	32,873	
16.U03 Total						32,873	
17.268	H-1B JOB TRAINING GRANTS		DIRECT	DEPARTMENT OF LABOR (DOL)		180,257	
17.268 Total						180,257	
17.401	INTERNATIONAL LABOR PROGRAMS		PASS-THROUGH	AMERICAN CTR FOR INTERNATIONAL LABOR SOLIDARITY	20211345	112,163	
17.401 Total						112,163	
17.502	COVID-19 - OCCUPATIONAL SAFETY AND HEALTH SUSAN HARWOOD TRAINING GRANTS	COVID-19	DIRECT	DEPARTMENT OF LABOR (DOL)		72,914	32,497
17.502	OCCUPATIONAL SAFETY AND HEALTH SUSAN HARWOOD TRAINING GRANTS		DIRECT	DEPARTMENT OF LABOR (DOL)		310,901	

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17.502	OCCUPATIONAL SAFETY AND HEALTH SUSAN HARWOOD TRAINING GRANTS		PASS-THROUGH	NEAR EAST SOUTH ASIA CENTER FOR STRATEGIC STUDIES	20192532	246,260	
17.502 Total						630,075	32,497
19.009	ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUATE PROGRAMS		PASS-THROUGH	INTERNATIONAL RESEARCH AND EXCHANGES BOARD, INC.	S-ECAGD-18-CA-0022	64,409	
19.009	ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUATE PROGRAMS		PASS-THROUGH	INTERNATIONAL RESEARCH AND EXCHANGES BOARD, INC.	FY22-YALI-PM-U	60,885	
19.009 Total						125,294	
19.010	ACADEMIC EXCHANGE PROGRAMS - HUBERT H. HUMPHREY FELLOWSHIP PROGRAM		PASS-THROUGH	INSTITUTE OF INTERNATIONAL EDUCATION, INC.	S-ECAGD-21-CA	16,756	
19.010	ACADEMIC EXCHANGE PROGRAMS - HUBERT H. HUMPHREY FELLOWSHIP PROGRAM		PASS-THROUGH	INSTITUTE OF INTERNATIONAL EDUCATION, INC.	IIE-77D51	199,629	
19.010 Total						216,385	
19.021	INVESTING IN PEOPLE IN THE MIDDLE EAST AND NORTH AFRICA		DIRECT	DEPARTMENT OF STATE		4,439	
19.021 Total						4,439	
19.040	PUBLIC DIPLOMACY PROGRAMS		DIRECT	DEPARTMENT OF STATE		2,432	
19.040 Total						2,432	
19.345	INTERNATIONAL PROGRAMS TO SUPPORT DEMOCRACY, HUMAN RIGHTS AND LABOR		DIRECT	DEPARTMENT OF STATE		310,891	
19.345 Total						310,891	
19.401	ACADEMIC EXCHANGE PROGRAMS - SCHOLARS		PASS-THROUGH	INSTITUTE OF INTERNATIONAL EDUCATION, INC.	20211954	4,759	
19.401	ACADEMIC EXCHANGE PROGRAMS - SCHOLARS		PASS-THROUGH	INSTITUTE OF INTERNATIONAL EDUCATION, INC.	UCD-10-1-2018	668	
19.401 Total						5,427	
19.402	PROFESSIONAL AND CULTURAL EXCHANGE PROGRAMS - INTERNATIONAL VISITOR LEADERSHIP PROGRAM		PASS-THROUGH	GLOBAL TIES U.S.	CPG-FY20-129:1	13,515	
19.402	PROFESSIONAL AND CULTURAL EXCHANGE PROGRAMS - INTERNATIONAL VISITOR LEADERSHIP PROGRAM		PASS-THROUGH	GLOBAL TIES U.S.	CPG-FY18-158	(543)	
19.402	PROFESSIONAL AND CULTURAL EXCHANGE PROGRAMS - INTERNATIONAL VISITOR LEADERSHIP PROGRAM		PASS-THROUGH	GLOBAL TIES U.S.	DOS 016	142,729	
19.402 Total						155,701	
19.501	PUBLIC DIPLOMACY PROGRAMS FOR AFGHANISTAN AND PAKISTAN		DIRECT	DEPARTMENT OF STATE		44,392	
19.501 Total						44,392	
19.U01	Covid-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	U.S. EMBASSY IN KENYA	19KE5020P0999	(268)	(268)
19.U01 Total						(268)	(268)
19.U02	FEDERAL CONTRACTS		PASS-THROUGH	AMERICAN COUNCILS FOR INTERNATIONAL EDUCATION	SUZ800-18-CA-0001	20,584	
19.U02 Total						20,584	
19.U03	FEDERAL CONTRACTS		PASS-THROUGH	INSTITUTE OF INTERNATIONAL EDUCATION, INC.	E-300002	43,861	
19.U03 Total						43,861	
20.106	AIRPORT IMPROVEMENT PROGRAM		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		13,000	
20.106 Total						13,000	
20.108	AVIATION RESEARCH GRANTS		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		187,920	
20.108 Total						187,920	
20.215	HIGHWAY TRAINING AND EDUCATION		DIRECT	DEPARTMENT OF TRANSPORTATION (DOT)		93,485	
20.215 Total						93,485	
42.010	TEACHING WITH PRIMARY SOURCES		DIRECT	THE LIBRARY OF CONGRESS		28,972	
42.010 Total						28,972	
42.U01	FEDERAL CONTRACTS		DIRECT	THE LIBRARY OF CONGRESS	A10-0014	228,881	
42.U01 Total						228,881	
42.U02	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF PLANNING AND RESEARCH CCSFRF015		129,509	
42.U02 Total						129,509	
43.001	SCIENCE		DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		2,937	
43.001	SCIENCE		PASS-THROUGH	UNIVERSITIES SPACE RESEARCH ASSOCIATION	LSTA 40-8978	16,634	
43.001 Total						19,571	
43.003	EXPLORATION		PASS-THROUGH	BAYLOR COLLEGE OF MEDICINE	NNX16AO69A	17,005	
43.003 Total						17,005	
43.008	OFFICE OF STEM ENGAGEMENT (OSTEM)		DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		101,222	
43.008	OFFICE OF STEM ENGAGEMENT (OSTEM)		PASS-THROUGH	CARTHAGE COLLEGE	FNL21_5.0	18,424	
43.008 Total						119,646	
43.012	SPACE TECHNOLOGY		DIRECT	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		496,444	
43.012 Total						496,444	
43.U01	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1664804	4,310	
43.U01 Total						4,310	
43.U02	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1664810	4,310	
43.U02 Total						4,310	
43.U03	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1664809	4,310	
43.U03 Total						4,310	
43.U04	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1664812	5,310	
43.U04 Total						5,310	
43.U05	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1664785	4,310	
43.U05 Total						4,310	
43.U06	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1664811	4,310	
43.U06 Total						4,310	
43.U07	FEDERAL CONTRACTS		PASS-THROUGH	JET PROPULSION LABORATORY	1664807	4,310	
43.U07 Total						4,310	
45.024	PROMOTION OF THE ARTS GRANTS TO ORGANIZATIONS AND INDIVIDUALS		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		117,783	
45.024 Total						117,783	
45.129	COVID-19 - PROMOTION OF THE HUMANITIES-FEDERAL/STATE PARTNERSHIP	COVID-19	PASS-THROUGH	CALIFORNIA HUMANITIES	RP-2031	19,661	
45.129	PROMOTION OF THE HUMANITIES-FEDERAL/STATE PARTNERSHIP		PASS-THROUGH	CALIFORNIA HUMANITIES	011892	569	
45.129	PROMOTION OF THE HUMANITIES-FEDERAL/STATE PARTNERSHIP		PASS-THROUGH	CALIFORNIA HUMANITIES	HFAP19-60	14,418	
45.129	PROMOTION OF THE HUMANITIES-FEDERAL/STATE PARTNERSHIP		PASS-THROUGH	CALIFORNIA HUMANITIES	SO-268663-20	1,620	
45.129	PROMOTION OF THE HUMANITIES-FEDERAL/STATE PARTNERSHIP		PASS-THROUGH	CALIFORNIA HUMANITIES	ZSO-283128-21	10,176	
45.129	PROMOTION OF THE HUMANITIES-FEDERAL/STATE PARTNERSHIP		PASS-THROUGH	CALIFORNIA HUMANITIES	RP-2125	19,802	

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45.129	PROMOTION OF THE HUMANITIES-FEDERAL/STATE PARTNERSHIP		PASS-THROUGH	CALIFORNIA HUMANITIES	RP-2124	19,910	
45.129 Total						86,156	
45.130	PROMOTION OF THE HUMANITIES CHALLENGE GRANTS		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		114,536	
45.130 Total						114,536	
45.149	PROMOTION OF THE HUMANITIES DIVISION OF PRESERVATION AND ACCESS		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		298,220	
45.149	PROMOTION OF THE HUMANITIES DIVISION OF PRESERVATION AND ACCESS		PASS-THROUGH	SOCIETY OF ARCHITECTURAL HISTORIANS (NFP)	SAH SUB01-NEF	12,000	
45.149 Total						310,220	
45.160	PROMOTION OF THE HUMANITIES FELLOWSHIPS AND STIPENDS		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		60,001	
45.160 Total						60,001	
45.161	PROMOTION OF THE HUMANITIES RESEARCH		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		155,511	
45.161 Total						155,511	
45.162	PROMOTION OF THE HUMANITIES TEACHING AND LEARNING RESOURCES AND CURRICULUM DEVELOPMENT		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		1,922	
45.162 Total						1,922	
45.163	PROMOTION OF THE HUMANITIES PROFESSIONAL DEVELOPMENT		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		76,081	
45.163 Total						76,081	
45.164	PROMOTION OF THE HUMANITIES PUBLIC PROGRAMS		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		23,469	
45.164	PROMOTION OF THE HUMANITIES PUBLIC PROGRAMS		PASS-THROUGH	ARHOOLIE FOUNDATION, THE	20190152	29,990	
45.164	PROMOTION OF THE HUMANITIES PUBLIC PROGRAMS		PASS-THROUGH	NATIONAL WRITING PROJECT	002/HD/2021	9,940	
45.164 Total						63,399	
45.169	PROMOTION OF THE HUMANITIES OFFICE OF DIGITAL HUMANITIES		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		22,718	
45.169 Total						22,718	
45.301	MUSEUMS FOR AMERICA		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		380,111	
45.301 Total						380,111	
45.312	NATIONAL LEADERSHIP GRANTS		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		557,832	381,371
45.312	NATIONAL LEADERSHIP GRANTS		PASS-THROUGH	ASSOCIATION OF SCIENCE TECHNOLOGY CENTER	72462-000	43,490	
45.312	NATIONAL LEADERSHIP GRANTS		PASS-THROUGH	DREXEL UNIVERSITY	SUB 950022 (RE-246450-OLS-...	6,148	
45.312 Total						607,470	381,371
45.313	LAURA BUSH 21ST CENTURY LIBRARIAN PROGRAM		DIRECT	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)		5,856	(32,897)
45.313 Total						5,856	(32,897)
59.037	SMALL BUSINESS DEVELOPMENT CENTERS		DIRECT	SMALL BUSINESS ADMINISTRATION (SBA)		2,457,377	1,351,469
59.037	SMALL BUSINESS DEVELOPMENT CENTERS		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIAR	CSUFAUX S-7582	114,192	
59.037	SMALL BUSINESS DEVELOPMENT CENTERS		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY FULLERTON/CSU FULLERTON AUXILIAR	S-7789-UCR	84,366	
59.037 Total						2,655,935	1,351,469
59.075	COVID-19 - SHUTTERED VENUE OPERATORS GRANT PROGRAM	COVID-19	DIRECT	SMALL BUSINESS ADMINISTRATION (SBA)		22,269,052	
59.075 Total						22,269,052	
66.001	AIR POLLUTION CONTROL PROGRAM SUPPORT		PASS-THROUGH	AIR RESOURCES BOARD	21RD014	16,877	
66.001 Total						16,877	
66.716	RESEARCH, DEVELOPMENT, MONITORING, PUBLIC EDUCATION, OUTREACH, TRAINING, DEMONSTRATIONS, AND STUDIES		DIRECT	ENVIRONMENTAL PROTECTION AGENCY (EPA)		2,138,442	199,486
66.716	RESEARCH, DEVELOPMENT, MONITORING, PUBLIC EDUCATION, OUTREACH, TRAINING, DEMONSTRATIONS, AND STUDIES		PASS-THROUGH	COLORADO STATE UNIVERSITY	G-02664-0	24,936	
66.716	RESEARCH, DEVELOPMENT, MONITORING, PUBLIC EDUCATION, OUTREACH, TRAINING, DEMONSTRATIONS, AND STUDIES		PASS-THROUGH	EXTENSION FOUNDATION	SA-2021-37	12,186	
66.716	RESEARCH, DEVELOPMENT, MONITORING, PUBLIC EDUCATION, OUTREACH, TRAINING, DEMONSTRATIONS, AND STUDIES		PASS-THROUGH	EXTENSION FOUNDATION	SA-2022-07	6,559	
66.716	RESEARCH, DEVELOPMENT, MONITORING, PUBLIC EDUCATION, OUTREACH, TRAINING, DEMONSTRATIONS, AND STUDIES		PASS-THROUGH	OREGON STATE UNIVERSITY	83947901	7,934	
66.716 Total						2,190,057	199,486
66.U01	FEDERAL CONTRACTS		DIRECT	ENVIRONMENTAL PROTECTION AGENCY (EPA)	68HERH19F0352	2,707,510	811,930
66.U01 Total						2,707,510	811,930
77.008	U.S. NUCLEAR REGULATORY COMMISSION SCHOLARSHIP AND FELLOWSHIP PROGRAM		DIRECT	NUCLEAR REGULATORY COMMISSION		58,504	
77.008 Total						58,504	
80.420	PERFORMANCE PARTNERSHIP PILOTS FOR DISCONNECTED YOUTH		DIRECT	DEPARTMENT OF EDUCATION (ED)		289,895	
80.420 Total						289,895	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		DIRECT	DEPARTMENT OF ENERGY (DOE)		123,712	
81.049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM		PASS-THROUGH	COLORADO STATE UNIVERSITY	G-01771-0	7,337	
81.049 Total						131,049	
81.136	LONG-TERM SURVEILLANCE AND MAINTENANCE		DIRECT	DEPARTMENT OF ENERGY (DOE)		141,437	
81.136 Total						141,437	
81.U01	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7353934	6,181	
81.U01 Total						6,181	
81.U02	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7366075	2,125,838	
81.U02 Total						2,125,838	
81.U03	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7436360	145,985	
81.U03 Total						145,985	
81.U04	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B639057	63,384	
81.U04 Total						63,384	
81.U05	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7541089	6,539	
81.U05 Total						6,539	
81.U06	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7535473	74,755	
81.U06 Total						74,755	

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81.U07	FEDERAL CONTRACTS		DIRECT	UC LAWRENCE BERKELEY LABORATORY	7552484	197,704	
81.U07 Total						197,704	
81.U08	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B643827	218,216	
81.U08 Total						218,216	
81.U09	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF ENERGY (DOE)	DOE-76D17	67,650	
81.U09 Total						67,650	
81.U10	FEDERAL CONTRACTS		PASS-THROUGH	KRELL INSTITUTE	A20-2990	(4,171)	
81.U10 Total						(4,171)	
81.U11	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	SE-B639	65,330	
81.U11 Total						65,330	
81.U12	FEDERAL CONTRACTS		PASS-THROUGH	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	B637431	6,480	
81.U12 Total						6,480	
	NATIONAL RESOURCE CENTERS PROGRAM FOR FOREIGN LANGUAGE AND AREA STUDIES OR FOREIGN LANGUAGE AND INTERNATIONAL STUDIES PROGRAM AND FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP PROGRAM						
84.015			DIRECT	DEPARTMENT OF EDUCATION (ED)		2,703,908	6,930
84.015 Total						2,703,908	6,930
84.022	OVERSEAS PROGRAMS - DOCTORAL DISSERTATION RESEARCH ABROAD		DIRECT	DEPARTMENT OF EDUCATION (ED)		475,250	
84.022 Total						475,250	
84.031	HIGHER EDUCATION INSTITUTIONAL AID		DIRECT	DEPARTMENT OF EDUCATION (ED)		3,077,233	
84.031	HIGHER EDUCATION INSTITUTIONAL AID		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS FOUNDATION	F18-161	44,367	
84.031	HIGHER EDUCATION INSTITUTIONAL AID		PASS-THROUGH	SANTA MONICA COLLEGE	A172125SF3	88,753	
84.031 Total						3,210,353	
84.126	REHABILITATION SERVICES-VOCATIONAL REHABILITATION GRANTS TO STATES		PASS-THROUGH	CALIFORNIA DEPARTMENT OF REHABILITATION	31061	537,812	
84.126 Total						537,812	
84.165	MAGNET SCHOOLS ASSISTANCE		PASS-THROUGH	LEARN REGIONAL EDUCATIONAL SERVICE CENTER	20213562	39,212	
84.165 Total						39,212	
84.200	GRADUATE ASSISTANCE IN AREAS OF NATIONAL NEED		DIRECT	DEPARTMENT OF EDUCATION (ED)		2,588,537	
84.200 Total						2,588,537	
84.229	LANGUAGE RESOURCE CENTERS		DIRECT	DEPARTMENT OF EDUCATION (ED)		163,029	
84.229 Total						163,029	
84.283	COMPREHENSIVE CENTERS		PASS-THROUGH	WESTED	S12-173:7	429	
84.283 Total						429	
84.287	TWENTY-FIRST CENTURY COMMUNITY LEARNING CENTERS		PASS-THROUGH	LOS ANGELES UNIFIED SCHOOL DISTRICT	4400007308	1,213,359	
84.287	TWENTY-FIRST CENTURY COMMUNITY LEARNING CENTERS		PASS-THROUGH	LOS ANGELES UNIFIED SCHOOL DISTRICT	7308-2.2	10,866	
84.287	TWENTY-FIRST CENTURY COMMUNITY LEARNING CENTERS		PASS-THROUGH	LOS ANGELES UNIFIED SCHOOL DISTRICT	4400007308-Work Order No. 7308-3.	245,714	
84.287 Total						1,469,939	
84.295	READY-TO-LEARN TELEVISION		PASS-THROUGH	EDUCATION DEVELOPMENT CENTER, INC.	11972:3	192	
84.295	READY-TO-LEARN TELEVISION		PASS-THROUGH	PUBLIC BROADCASTING SERVICE	20154615	(665)	
84.295 Total						(473)	
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		DIRECT	DEPARTMENT OF EDUCATION (ED)		1,097,813	
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		PASS-THROUGH	WESTED	S-00016176	122,564	
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		PASS-THROUGH	WESTED	S-00017683	267,245	
84.305	EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION		PASS-THROUGH	WESTED	S00018	198,284	
84.305 Total						1,685,906	
84.334	GAINING EARLY AWARENESS AND READINESS FOR UNDERGRADUATE PROGRAMS		DIRECT	DEPARTMENT OF EDUCATION (ED)		8,526,631	
84.334 Total						8,526,631	
84.335	CHILD CARE ACCESS MEANS PARENTS IN SCHOOL		DIRECT	DEPARTMENT OF EDUCATION (ED)		636,254	
84.335 Total						636,254	
84.336	TEACHER QUALITY PARTNERSHIP GRANTS		DIRECT	DEPARTMENT OF EDUCATION (ED)		1,990,118	
84.336	TEACHER QUALITY PARTNERSHIP GRANTS		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS FOUNDATION	F18-160	(2,273)	
84.336 Total						1,987,845	
84.365	ENGLISH LANGUAGE ACQUISITION STATE GRANTS		DIRECT	DEPARTMENT OF EDUCATION (ED)		1,455,820	
84.365	ENGLISH LANGUAGE ACQUISITION STATE GRANTS		PASS-THROUGH	ARIZONA STATE UNIVERSITY	T365Z170170	29,978	
84.365	ENGLISH LANGUAGE ACQUISITION STATE GRANTS		PASS-THROUGH	NEW HAVEN PUBLIC SCHOOLS	96251641	15,001	
84.365	ENGLISH LANGUAGE ACQUISITION STATE GRANTS		PASS-THROUGH	SANTA BARBARA SCHOOL DISTRICTS	SBUSD(DE) 20030	23,075	
84.365 Total						1,523,874	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		DIRECT	DEPARTMENT OF EDUCATION (ED)		67,291	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	3E+14	1,104,852	1,096,852
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	20CSMP-PSEPD-CHSSP	(48,224)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	CN190227	154,916	146,916
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	ESSA 2021-22 (RP20603)	1,077,218	1,025,538
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	ESSA18-CSP	354	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	18785-000	(8,755)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	18795-000	(29,952)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	18832-000	(45,226)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	18875-000	(40,216)	

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	18885-000		(39,414)
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	18922-000		(42,655)
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	18950-000		(54,760)
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA20-CMP-UCB		(7,121)
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	011877		(14,327)
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA20-CRLP-UCI		(315)
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA20-CWP-UCD		(7,128)
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA21-CHSS	23,023	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA21-CHS	25,310	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA21-CW	6,557	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	ESSA21CWP	2,347	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	96553	7,814	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION CURRICULUM AND INSTRUCTIO	96556	4,170	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	CALIFORNIA MATHEMATICS PROJECT	ESSA20-CMP-UCD	(1,052)	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	DEPARTMENT OF EDUCATION (ED)	21CSMP-ESSER-CRLP	324,408	91,997
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	DEPARTMENT OF EDUCATION (ED)	SUB 20213283 (CN210021)	31,467	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	DEPARTMENT OF EDUCATION (ED)	21CSMP-ESSER-CWP	25,001	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	DEPARTMENT OF EDUCATION (ED)	ESSA21-CRLP-UCSD	48,149	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	DEPARTMENT OF EDUCATION (ED)	ESSA21-CSP-UCSD	38,843	
84.367	SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS		PASS-THROUGH	DEPARTMENT OF EDUCATION (ED)	ESSA21-CWP-UCSD	38,136	
84.367 Total						1,485,728	1,188,849
84.367 Total						1,154,983	1,172,454
84.368	COMPETITIVE GRANTS FOR STATE ASSESSMENTS (FORMERLY GRANTS FOR ENHANCED ASSESSMENT INSTRUMENTS)		PASS-THROUGH	IOWA DEPARTMENT OF EDUCATION	S368A190007	2,784,971	
84.368 Total						2,784,971	
84.382	STRENGTHENING MINORITY-SERVING INSTITUTIONS		DIRECT	DEPARTMENT OF EDUCATION (ED)		76,075	10,276
84.382 Total						76,075	10,276
84.422	AMERICAN HISTORY AND CIVICS EDUCATION		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, FRESNO	SC330402-17-01	2,338	
84.422 Total						2,338	
84.424	STUDENT SUPPORT AND ACADEMIC ENRICHMENT PROGRAM		PASS-THROUGH	LOS ANGELES COUNTY OFFICE OF EDUCATION	600125-21:22	550,439	
84.424 Total						550,439	
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	DIRECT	DEPARTMENT OF EDUCATION (ED)		295,250	20,429
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	20213283-01	27,667	
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	MC2249	2,794	
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	21CSMP-ESSER-CHSSP	176,659	
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	A22-0800-5003	84,341	
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	22080	13,140	
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	2246	24,997	
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	87D32-000	(11,715)	
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	87D32-530	20,242	
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	1CSMPESSECSP	185,782	
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	MC2251	1,890	
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	21CSMPESSECWP62Z	65,131	23,072
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	18865-000	(82,567)	
84.425D	COVID-19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF FUND (ESSER)	COVID-19	PASS-THROUGH	CALIFORNIA DEPARTMENT OF EDUCATION	18865-530	83,315	
84.425D Total						886,926	43,501
84.425E	COVID-19 - HIGHER EDUCATION EMERGENCY RELIEF FUND (HEERF) STUDENT AID PORTION	COVID-19	DIRECT	DEPARTMENT OF EDUCATION (ED)		326,589,886	
84.425E Total						326,589,886	
84.425F	COVID-19 - HIGHER EDUCATION EMERGENCY RELIEF FUND (HEERF) INSTITUTIONAL AID PORTION	COVID-19	DIRECT	DEPARTMENT OF EDUCATION (ED)		257,260,454	
84.425F Total						257,260,454	
84.425L	COVID-19 - HIGHER EDUCATION EMERGENCY RELIEF FUND (HEERF) MINORITY SERVING INSTITUTIONS (MSIs)	COVID-19	DIRECT	DEPARTMENT OF EDUCATION (ED)		22,043,380	
84.425L Total						22,043,380	
84.425S	COVID-19 - HEERF SUPPLEMENTAL ASSISTANCE TO INSTITUTIONS OF HIGHER EDUCATION (SAIE) PROGRAM	COVID-19	DIRECT	DEPARTMENT OF EDUCATION (ED)		4,278,710	

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84.4255 Total						4,278,710	
84.425 Total						611,059,356	43,501
84.U01	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF EDUCATION (ED)	P044A210068	151,096	
84.U01 Total						151,096	
84.U02	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF EDUCATION (ED)	P044A210067	163,801	
84.U02 Total						163,801	
84.U03	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF EDUCATION (ED)	P407A200052	394,432	
84.U03 Total						394,432	
84.U04	FEDERAL CONTRACTS		PASS-THROUGH	LOS ANGELES UNIFIED SCHOOL DISTRICT	4400009489	17,062	
84.U04 Total						17,062	
84.U05	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF EDUCATION (ED)	00010378	106,902	
84.U05 Total						106,902	
89.003	NATIONAL HISTORICAL PUBLICATIONS AND RECORDS GRANTS		DIRECT	NATIONAL ARCHIVES AND RECORDS ADMINISTRATION		64,822	
89.003 Total						64,822	
93.008	MEDICAL RESERVE CORPS SMALL GRANT PROGRAM		PASS-THROUGH	NATIONAL ASSOCIATION OF COUNTY AND CITY HEALTH OFFICIALS	MRC212	10,000	
93.008 Total						10,000	
93.059	TRAINING IN GENERAL, PEDIATRIC, AND PUBLIC HEALTH DENTISTRY		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		615,455	
93.059 Total						615,455	
93.067	COVID-19 - GLOBAL AIDS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,327,580	25,059
93.067	GLOBAL AIDS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		11,808,279	3,181,120
93.067	GLOBAL AIDS		PASS-THROUGH	COLUMBIA UNIVERSITY	A126704	(6,084)	
93.067	GLOBAL AIDS		PASS-THROUGH	ELIZABETH GLASER PEDIATRIC AIDS FOUNDATION	CP05917004073500	(182)	
93.067	GLOBAL AIDS		PASS-THROUGH	MAKERERE UNIVERSITY	UMETS-D7450	354,023	
93.067	GLOBAL AIDS		PASS-THROUGH	MZUMBE UNIVERSITY	RUT-D8615	65,442	
93.067	GLOBAL AIDS		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC13491	184,215	
93.067 Total						13,733,273	3,206,179
93.074	HOSPITAL PREPAREDNESS PROGRAM (HPP) AND PUBLIC HEALTH EMERGENCY PREPAREDNESS (PHEP) ALIGNED COOPERATIVE AGREEMENTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	18-10040	2,320,792	
93.074	HOSPITAL PREPAREDNESS PROGRAM (HPP) AND PUBLIC HEALTH EMERGENCY PREPAREDNESS (PHEP) ALIGNED COOPERATIVE AGREEMENTS		PASS-THROUGH	COUNTY OF LOS ANGELES	H705761	(3,852)	
93.074	HOSPITAL PREPAREDNESS PROGRAM (HPP) AND PUBLIC HEALTH EMERGENCY PREPAREDNESS (PHEP) ALIGNED COOPERATIVE AGREEMENTS		PASS-THROUGH	COUNTY OF LOS ANGELES	H708213	318,594	
93.074	HOSPITAL PREPAREDNESS PROGRAM (HPP) AND PUBLIC HEALTH EMERGENCY PREPAREDNESS (PHEP) ALIGNED COOPERATIVE AGREEMENTS		PASS-THROUGH	LOS ANGELES COUNTY DEPARTMENT OF HEALTH SERVICES	H-707439:1	(133)	
93.074 Total						2,635,401	
93.080	BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND RESEARCH		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	CIBDIX2020CDC-UCSF-01	20,641	
93.080 Total						20,641	
93.092	AFFORDABLE CARE ACT (ACA) PERSONAL RESPONSIBILITY EDUCATION PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		618,704	409,301
93.092 Total						618,704	409,301
93.103	FOOD AND DRUG ADMINISTRATION RESEARCH		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		24,975	
93.103 Total						24,975	
93.107	AREA HEALTH EDUCATION CENTERS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		2,139,802	1,743,795
93.107 Total						2,139,802	1,743,795
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		2,906,637	119,879
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	CIBDIX2012HRSA	7,127,526	
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		PASS-THROUGH	UNIVERSITY HOSPITALS OF CLEVELAND	2021-1037	357,654	
93.110	MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS		PASS-THROUGH	UNIVERSITY HOSPITALS OF CLEVELAND	1330	9,045	
93.110 Total						10,400,862	119,879
93.117	PREVENTIVE MEDICINE RESIDENCY		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		368,955	
93.117 Total						368,955	
93.127	EMERGENCY MEDICAL SERVICES FOR CHILDREN		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		618,511	303,074
93.127 Total						618,511	303,074
93.129	TECHNICAL AND NON-FINANCIAL ASSISTANCE TO HEALTH CENTERS		PASS-THROUGH	COMMUNITY HEALTH CENTER, INC	100218-FY21-01	(18)	
93.129	TECHNICAL AND NON-FINANCIAL ASSISTANCE TO HEALTH CENTERS		PASS-THROUGH	COMMUNITY HEALTH CENTER, INC	100218-FY22	22,175	
93.129	TECHNICAL AND NON-FINANCIAL ASSISTANCE TO HEALTH CENTERS		PASS-THROUGH	NATIONAL ASSOCIATION OF COMMUNITY HEALTH CENTERS, INC.	NACCH-D8636	2,651	
93.129 Total						24,808	
93.136	INJURY PREVENTION AND CONTROL RESEARCH AND STATE AND COMMUNITY BASED PROGRAMS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		86,715	
93.136 Total						86,715	
93.145	COVID-19 - HIV-RELATED TRAINING AND TECHNICAL ASSISTANCE	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		5,716	5,724
93.145	HIV-RELATED TRAINING AND TECHNICAL ASSISTANCE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		3,492,451	389,673
93.145	HIV-RELATED TRAINING AND TECHNICAL ASSISTANCE		PASS-THROUGH	CICATELLI ASSOCIATES INC	20201345	832,634	
93.145	HIV-RELATED TRAINING AND TECHNICAL ASSISTANCE		PASS-THROUGH	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	1021	523,363	
93.145 Total						4,854,164	395,397
93.153	COORDINATED SERVICES AND ACCESS TO RESEARCH FOR WOMEN, INFANTS, CHILDREN, AND YOUTH (RYAN WHITE PROGRAM PART D WOMEN, INFANTS, CHILDREN AND YOUTH WICY PROGRAM)		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		737,848	243,349

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93.153	COVID-19 - COORDINATED SERVICES AND ACCESS TO RESEARCH FOR WOMEN, INFANTS, CHILDREN, AND YOUTH (RYAN WHITE PROGRAM PART D WOMEN, INFANTS, CHILDREN AND YOUTH WICY PROGRAM)	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		11,579	
93.153 Total						749,427	243,349
93.157	CENTERS OF EXCELLENCE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,433,354	43,600
93.157	CENTERS OF EXCELLENCE		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	BPHC11000112	(35)	
93.157	CENTERS OF EXCELLENCE		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	BPHC11000117	(20)	
93.157 Total						1,433,299	43,600
93.161	HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY		PASS-THROUGH	AMERICAN ACADEMY OF PEDIATRICS	771120_UCSF	333,095	
93.161 Total						333,095	
93.184	DISABILITIES PREVENTION		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	CIBDIX2011CDC-UCSF-1	167	
93.184 Total						167	
93.186	NATIONAL RESEARCH SERVICE AWARD IN PRIMARY CARE MEDICINE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,202,115	
93.186 Total						1,202,115	
93.217	FAMILY PLANNING-SERVICES		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	12-89338	(4)	
93.217	FAMILY PLANNING-SERVICES		PASS-THROUGH	ESSENTIAL ACCESS HEALTH	1324-5320-71209-19-20	219,426	
93.217 Total						219,422	
93.226	RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		719,301	73,068
93.226 Total						719,301	73,068
93.239	POLICY RESEARCH AND EVALUATION GRANTS		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	1816	65,319	
93.239 Total						65,319	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		10,681,190	3,490,540
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	AZUSA PACIFIC UNIVERSITY	1H79T1082546-01-01:01	33,191	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	CHILD HEALTH AND DEVELOPMENT INSTITUTE OF CONNECTICUT INC	94-6036493	21,946	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	LA CLINICA DE LA RAZA FRUITVALE HEALTH PROJECT, INC.	FR9	19,696	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	ST. JOSEPH CENTER	20183783	64,776	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	SUNRISE COMMUNITY COUNSELING CENTER	20174448	19,019	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	UNIVERSITY OF MISSOURI	00102638	110,557	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	UNIVERSITY OF WISCONSIN-MADISON	0000000236	10,289	
93.243	SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE		PASS-THROUGH	WAKE FOREST UNIVERSITY HEALTH SCIENCES	011754	72,318	
93.243 Total						11,032,982	3,490,540
93.247	ADVANCED NURSING EDUCATION WORKFORCE GRANT PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		758,079	
93.247	ADVANCED NURSING EDUCATION WORKFORCE GRANT PROGRAM		PASS-THROUGH	PETALUMA HEALTH CENTER	GAT-D8520	27,420	
93.247 Total						785,499	
93.253	COVID-19 - POISON CENTER SUPPORT AND ENHANCEMENT GRANT	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		10,165	
93.253	POISON CENTER SUPPORT AND ENHANCEMENT GRANT		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		2,454,601	
93.253 Total						2,464,766	
93.262	OCCUPATIONAL SAFETY AND HEALTH PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		3,118,138	5,196
93.262 Total						3,118,138	5,196
93.266	HEALTH SYSTEMS STRENGTHENING AND HIV/AIDS PREVENTION, CARE AND TREATMENT UNDER THE PRESIDENT'S EMERGENCY PLAN FOR AIDS RELIEF		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC12268	19,237	
93.266	HEALTH SYSTEMS STRENGTHENING AND HIV/AIDS PREVENTION, CARE AND TREATMENT UNDER THE PRESIDENT'S EMERGENCY PLAN FOR AIDS RELIEF		PASS-THROUGH	UNIVERSITY OF WASHINGTON	UWSC12312	53,807	
93.266 Total						73,044	
93.283	CENTERS FOR DISEASE CONTROL AND PREVENTION INVESTIGATIONS AND TECHNICAL ASSISTANCE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	17-10097	1,339,551	
93.283	COVID-19 - CENTERS FOR DISEASE CONTROL AND PREVENTION INVESTIGATIONS AND TECHNICAL ASSISTANCE	COVID-19	PASS-THROUGH	UNIVERSITY OF FLORIDA	NU21IP000597	197,497	99,033
93.283 Total						1,537,048	99,033
93.297	TEENAGE PREGNANCY PREVENTION PROGRAM		PASS-THROUGH	EDUCATION, TRAINING & RESEARCH ASSOCIATES	PO1362	14,000	
93.297 Total						14,000	
93.316	COVID-19 - PUBLIC HEALTH PREPAREDNESS AND RESPONSE SCIENCE, RESEARCH, AND PRACTICE	COVID-19	PASS-THROUGH	REGENERON PHARMACEUTICALS, INC.	A20-4421	149,272	
93.316 Total						149,272	
93.318	COVID-19 - PROTECTING AND IMPROVING HEALTH GLOBALLY: BUILDING AND STRENGTHENING PUBLIC HEALTH IMPACT, SYSTEMS, CAPACITY AND SECURITY	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		152,675	37,908

**University of California
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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
93.318	PROTECTING AND IMPROVING HEALTH GLOBALLY: BUILDING AND STRENGTHENING PUBLIC HEALTH IMPACT, SYSTEMS, CAPACITY AND SECURITY		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		764,204	
93.318 Total						916,879	37,908
93.323	COVID-19 - EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)	COVID-19	PASS-THROUGH	HELUNA HEALTH	6NU50CK000539	54,688	
93.323	EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)		PASS-THROUGH	HELUNA HEALTH	A21-2912	17,406	
93.323	EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)		PASS-THROUGH	HELUNA HEALTH	SNU50CK0005390300	27,912	
93.323 Total						100,006	
93.354	PUBLIC HEALTH EMERGENCY RESPONSE: COOPERATIVE AGREEMENT FOR EMERGENCY RESPONSE: PUBLIC HEALTH CRISIS RESPONSE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	19-11143	2,044,137	
93.354 Total						2,044,137	
93.355	CERTIFIED HEALTH IT SURVEILLANCE CAPACITY AND INFRASTRUCTURE IMPROVEMENT COOPERATIVE AGREEMENT PROGRAM		PASS-THROUGH	CALIFORNIA STATE UNIVERSITY, LONG BEACH FOUNDATION	SG25602	48,375	
93.355 Total						48,375	
93.358	ADVANCED EDUCATION NURSING TRAINEESHIPS		PASS-THROUGH	FAMILY HEALTH CENTERS OF SAN DIEGO, INC	SUB NONE(HP29857)	51,330	
93.358 Total						51,330	
93.359	NURSE EDUCATION, PRACTICE QUALITY AND RETENTION GRANTS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		151,663	
93.359 Total						151,663	
93.360	BIOMEDICAL ADVANCED RESEARCH AND DEVELOPMENT AUTHORITY (BARDA), BIODEFENSE MEDICAL COUNTERMEASURE DEVELOPMENT		PASS-THROUGH	MARINUS PHARMACEUTICALS, INC.	A21-3238	32,588	
93.360 Total						32,588	
93.365	SICKLE CELL TREATMENT DEMONSTRATION PROGRAM		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	CIBDX2021HRSA	39,075	
93.365 Total						39,075	
93.391	ACTIVITIES TO SUPPORT STATE, TRIBAL, LOCAL AND TERRITORIAL (STLT) HEALTH DEPARTMENT RESPONSE TO PUBLIC HEALTH OR HEALTHCARE CRISES		PASS-THROUGH	ASSOCIATION OF STATE AND TERRITORIAL HEALTH OFFICIALS	86-29221 (FE-2921-01-00)	178,533	
93.391	ACTIVITIES TO SUPPORT STATE, TRIBAL, LOCAL AND TERRITORIAL (STLT) HEALTH DEPARTMENT RESPONSE TO PUBLIC HEALTH OR HEALTHCARE CRISES		PASS-THROUGH	SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH	SPDPH-D9991	313,872	
93.391 Total						492,405	
93.421	COVID-19 - STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATION'S HEALTH	COVID-19	PASS-THROUGH	NATIONAL FOUNDATION FOR THE CENTERS FOR DISEASE CONTROL AND PREVENTION	20222282	236,629	
93.421	STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATION'S HEALTH		PASS-THROUGH	ASSOCIATION OF UNIVERSITY CENTERS ON DISABILITIES INCORPORAT	24-21-8815	11,636	
93.421	STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATION'S HEALTH		PASS-THROUGH	NATIONAL ASSOCIATION OF COUNTY AND CITY HEALTH OFFICIALS	NACCHO-5608881	19,915	
93.421	STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATION'S HEALTH		PASS-THROUGH	NATIONAL ASSOCIATION OF COUNTY AND CITY HEALTH OFFICIALS	NACCHO-77675	48,729	
93.421	STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATION'S HEALTH		PASS-THROUGH	NATIONAL FOUNDATION FOR THE CENTERS FOR DISEASE CONTROL AND PREVENTION	052111	38,721	
93.421 Total						355,630	
93.426	IMPROVING THE HEALTH OF AMERICANS THROUGH PREVENTION AND MANAGEMENT OF DIABETES AND HEART DISEASE AND STROKE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	20-10283	11,333	
93.426 Total						11,333	
93.439	STATE PHYSICAL ACTIVITY AND NUTRITION (SPAN)		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	CDPH-84C13	72,266	
93.439 Total						72,266	
93.456	CDC UNDERGRADUATE PUBLIC HEALTH SCHOLARS PROGRAM (CUPS): A PUBLIC HEALTH EXPERIENCE TO EXPOSE UNDERGRADUATES INTERESTED IN MINORITY HEALTH TO PUBLIC HEALTH AND THE PUBLIC HEALTH PROFESSIONS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		700,058	
93.456	CDC UNDERGRADUATE PUBLIC HEALTH SCHOLARS PROGRAM (CUPS): A PUBLIC HEALTH EXPERIENCE TO EXPOSE UNDERGRADUATES INTERESTED IN MINORITY HEALTH TO PUBLIC HEALTH AND THE PUBLIC HEALTH PROFESSIONS		PASS-THROUGH	KENNEDY KRIEGER INSTITUTE	NU50MN000004	39,774	
93.456 Total						739,832	
93.461	COVID-19 - COVID-19 TESTING FOR THE UNINSURED	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,553,877	
93.461 Total						1,553,877	
93.498	COVID-19 - PROVIDER RELIEF FUND AND AMERICAN RESCUE PLAN (ARP) RURAL DISTRIBUTION	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		462,238,430	
93.498 Total						462,238,430	
93.516	PUBLIC HEALTH TRAINING CENTERS PROGRAM		PASS-THROUGH	UNIVERSITY OF ARIZONA	455319	74,862	70,308
93.516 Total						74,862	70,308

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Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
	THE AFFORDABLE CARE ACT: BUILDING EPIDEMIOLOGY, LABORATORY, AND HEALTH INFORMATION SYSTEMS CAPACITY IN THE						
93.521	EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASE (ELC) AND EMERGING INFECTIONS PROGRAM (EIP) COOPERATIVE AGREEMENTS; PPHF		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	16-10002	25,812	
93.521 Total						25,812	
93.556	PROMOTING SAFE AND STABLE FAMILIES		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVIC	20-3038 20-01-05	1,999,370 375,113	
93.556	PROMOTING SAFE AND STABLE FAMILIES		PASS-THROUGH	LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVIC	2015-01-05:5	4,216	
93.556 Total						2,378,699	
93.563	CHILD SUPPORT ENFORCEMENT		PASS-THROUGH	SACRAMENTO, COUNTY OF	GENT-2021-49	23,715	
93.563 Total						23,715	
93.566	REFUGEE AND ENTRANT ASSISTANCE-STATE ADMINISTERED PROGRAMS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	17-10015	16,042	
93.566 Total						16,042	
93.604	ASSISTANCE FOR TORTURE VICTIMS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		263,114	
93.604 Total						263,114	
93.632	UNIVERSITY CENTERS FOR EXCELLENCE IN DEVELOPMENTAL DISABILITIES EDUCATION, RESEARCH, AND SERVICE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		590,372	
93.632 Total						590,372	
93.648	CHILD WELFARE RESEARCH TRAINING OR DEMONSTRATION		PASS-THROUGH	COLUSA, COUNTY OF	CW-2021-05	15,020	
93.648 Total						15,020	
93.658	FOSTER CARE-TITLE IV-E		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		8,968	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	AMADOR, COUNTY OF	PQCR-2018-02	43	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	CALAVERAS, COUNTY OF	CPE-NCCC-2022	1,942	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	18-3026	379,946	17,914
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	18-3028	(1,283)	(1,283)
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	20-3019	29,357,045	24,993,597
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	18-3016	106,501	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	H&W051593	3,193,944	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	21-3	2,962,077	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	CONTRA COSTA COUNTY	20-381-0	37,754	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	COUNTY OF PLUMAS	CW-2021-26	12,648	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	COUNTY OF SOLANO	GENT-2019-32	(875)	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	FRESNO COUNTY	GENT-2021-08	233,967	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	GLENN, COUNTY OF	C000114074	(3,242)	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	INYO, COUNTY OF	C000114077	234,510	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	LASSEN, COUNTY OF	C000114051	34,425	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVIC	16-0015	27,655	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVIC	ACLA 78135	716,856	573,762
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVIC		(696)	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVIC	FRAN-20913	7,654,741	3,056,640
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	LOS ANGELES COUNTY, DEPARTMENT OF CHILDREN AND FAMILY SERVIC	20-0086	33,593	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	MADERA, COUNTY OF	CW-2021-16	52,201	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	MENDOCINO, COUNTY OF	C000113962	(1,300)	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	MENDOCINO, COUNTY OF	C000114049	40	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	MENDOCINO, COUNTY OF	EW-2021-46	36,750	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	MERCED, COUNTY OF	CW-2021-19	18,647	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	MERCED, COUNTY OF	EW-2021-19	34,782	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	NAPA, COUNTY OF	CW-2021-23	10,205	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	NEVADA, COUNTY OF	C000114131	1,095	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	NEVADA, COUNTY OF	NCNCE-21-22	49,936	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	SACRAMENTO, COUNTY OF	780500021314	(1,801)	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	SACRAMENTO, COUNTY OF	7805000-22-31	182,809	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	SAN JOAQUIN COUNTY	CW-2018-28	8	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	SAN JOAQUIN COUNTY	CW-2021-28	41,106	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	SUTTER COUNTY	2021-SUT01	22,016	
93.658	FOSTER CARE-TITLE IV-E		PASS-THROUGH	VENTURA COUNTY	GENT-2021-58	54,940	
93.658 Total						45,491,953	28,640,630
93.667	SOCIAL SERVICES BLOCK GRANT		PASS-THROUGH	LASSEN, COUNTY OF	GENT-2021-15	22,853	
93.667 Total						22,853	
93.732	MENTAL AND BEHAVIORAL HEALTH EDUCATION AND TRAINING GRANTS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,734,876	413,735
93.732	MENTAL AND BEHAVIORAL HEALTH EDUCATION AND TRAINING GRANTS		PASS-THROUGH	ASSOCIATION OF SCHOOLS AND PROGRAMS OF PUBLIC HEALTH, INC.	20215719	329,673	
93.732 Total						2,064,549	413,735
	STATE PUBLIC HEALTH APPROACHES FOR ENSURING QUITLINE CAPACITY – FUNDED IN PART BY PREVENTION AND PUBLIC HEALTH FUNDS (PPHF)		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	17-10613	608,686	
93.735						608,686	
93.747	ELDER ABUSE PREVENTION INTERVENTIONS PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF SOCIAL SERVICES	18-3248	2,567	2,567
93.747 Total						2,567	2,567
	PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT FUNDED SOLELY WITH PREVENTION AND PUBLIC HEALTH FUNDS (PPHF)		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	16-10512	63,094	
93.758						63,094	
93.788	OPIOID STR		PASS-THROUGH	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	20-10339	632,027	
93.788	OPIOID STR		PASS-THROUGH	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	17-94722	1,757,848	434,432
93.788	OPIOID STR		PASS-THROUGH	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	1895371	1,238,177	118,493
93.788	OPIOID STR		PASS-THROUGH	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	17-94653	683,981	
93.788	OPIOID STR		PASS-THROUGH	SIERRA HEALTH FOUNDATION	CA20MAT392	368,884	
93.788	OPIOID STR		PASS-THROUGH	UNIVERSITY OF MISSOURI	0090499/00066589:2	(957)	
93.788	OPIOID STR		PASS-THROUGH	UNIVERSITY OF MISSOURI	1H79T1083343	640,846	
93.788 Total						5,320,806	552,925
93.822	HEALTH CAREERS OPPORTUNITY PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		828,149	149,658

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93.822 Total						828,149	149,658
93.834	CAPACITY BUILDING ASSISTANCE (CBA) FOR HIGH-IMPACT HIV PREVENTION		PASS-THROUGH	CICATELLI ASSOCIATES INC	PS19-1904	15,983	
93.834	CAPACITY BUILDING ASSISTANCE (CBA) FOR HIGH-IMPACT HIV PREVENTION		PASS-THROUGH	HELUNA HEALTH	A139104	13,517	
93.834	CAPACITY BUILDING ASSISTANCE (CBA) FOR HIGH-IMPACT HIV PREVENTION		PASS-THROUGH	SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH	SFDPH-D4996	126,254	
93.834 Total						155,754	
93.861	STRENGTHENING THE PUBLIC HEALTH SYSTEM IN US-AFFILIATED PACIFIC ISLANDS (PPHI)		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		465,637	
93.861	STRENGTHENING THE PUBLIC HEALTH SYSTEM IN US-AFFILIATED PACIFIC ISLANDS (PPHI)		PASS-THROUGH	SAN DIEGO COMMUNITY COLLEGE DISTRICT	Sub none (GM073590)	1,458	
93.861 Total						467,095	
93.877	AUTISM COLLABORATION, ACCOUNTABILITY, RESEARCH, EDUCATION, AND SUPPORT		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		14,190	
93.877 Total						14,190	
93.881	THE HEALTH INSURANCE ENFORCEMENT AND CONSUMER PROTECTIONS GRANT PROGRAM		PASS-THROUGH	CALIFORNIA DEPARTMENT OF INSURANCE	160351A-2	47,446	
93.881 Total						47,446	
93.884	GRANTS FOR PRIMARY CARE TRAINING AND ENHANCEMENT		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,265,311	53,819
93.884	GRANTS FOR PRIMARY CARE TRAINING AND ENHANCEMENT		PASS-THROUGH	UNIVERSITY OF ILLINOIS CHICAGO	UIC-E0389	10,311	
93.884 Total						1,275,622	53,819
93.889	COVID-19 - NATIONAL BIOTERRORISM HOSPITAL PREPAREDNESS PROGRAM	COVID-19	PASS-THROUGH	CALIFORNIA HEALTH FOUNDATION AND TRUST	520CH	70,862	
93.889	NATIONAL BIOTERRORISM HOSPITAL PREPAREDNESS PROGRAM		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,246,983	138,440
93.889	NATIONAL BIOTERRORISM HOSPITAL PREPAREDNESS PROGRAM		PASS-THROUGH	COUNTY OF LOS ANGELES	H-701039	1,886	
93.889	NATIONAL BIOTERRORISM HOSPITAL PREPAREDNESS PROGRAM		PASS-THROUGH	LOS ANGELES COUNTY DEPARTMENT OF HEALTH SERVICES	H-708213	173,875	
93.889 Total						1,493,606	138,440
93.898	CANCER PREVENTION AND CONTROL PROGRAMS FOR STATE, TERRITORIAL AND TRIBAL ORGANIZATIONS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	18-10464		(854)
93.898 Total							(854)
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	AIDS UNITED	SUB 20182427 (U69HA310670100)	24,556	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	ALAMEDA COUNTY PUBLIC HEALTH DEPARTMENT	900159	51,466	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	HCHPDHIVSVGR	1,494,273	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	DPHC17001025	875,822	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	C0555 MALCOLM	320,074	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	RFP43-201	357,864	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	CCSF DILLEY D5883	49,156	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	RFP5-2019	3,279,407	321,459
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	CCSF DILLEY D6697	2,428,446	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	LOS ANGELES COUNTY DEPARTMENT OF HEALTH SERVICES	PH-003770	612,287	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	LOS ANGELES COUNTY DEPARTMENT OF HEALTH SERVICES	PH-003808	1,901,238	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	LOS ANGELES COUNTY DEPARTMENT OF HEALTH SERVICES	PH-003769	16,263	
93.914	HIV EMERGENCY RELIEF PROJECT GRANTS		PASS-THROUGH	LOS ANGELES COUNTY DEPARTMENT OF HEALTH SERVICES	PH-004213	18,354	
93.914 Total						11,429,206	321,459
93.918	COVID-19 - GRANTS TO PROVIDE OUTPATIENT EARLY INTERVENTION SERVICES WITH RESPECT TO HIV DISEASE	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		625,612	
93.918 Total						625,612	
93.924	RYAN WHITE HIV/AIDS DENTAL REIMBURSEMENT AND COMMUNITY BASED DENTAL PARTNERSHIP GRANTS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		26,748	
93.924 Total						26,748	
93.928	SPECIAL PROJECTS OF NATIONAL SIGNIFICANCE		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,511,004	
93.928	SPECIAL PROJECTS OF NATIONAL SIGNIFICANCE		PASS-THROUGH	BOSTON UNIVERSITY	4500002544	20,002	
93.928	SPECIAL PROJECTS OF NATIONAL SIGNIFICANCE		PASS-THROUGH	CICATELLI ASSOCIATES INC	20203350	134,172	
93.928 Total						1,665,178	
93.940	HIV PREVENTION ACTIVITIES HEALTH DEPARTMENT BASED		PASS-THROUGH	ALAMEDA COUNTY PUBLIC HEALTH DEPARTMENT	900126	(4)	
93.940	HIV PREVENTION ACTIVITIES HEALTH DEPARTMENT BASED		PASS-THROUGH	ALAMEDA COUNTY PUBLIC HEALTH DEPARTMENT	E0060-000	84,979	
93.940	HIV PREVENTION ACTIVITIES HEALTH DEPARTMENT BASED		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	BPHC12000084	(30,102)	
93.940	HIV PREVENTION ACTIVITIES HEALTH DEPARTMENT BASED		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	CCSF GANDHI D9216	991,346	
93.940	HIV PREVENTION ACTIVITIES HEALTH DEPARTMENT BASED		PASS-THROUGH	CITY AND COUNTY OF SAN FRANCISCO	CCSF DILLEY D9263	549,985	
93.940	HIV PREVENTION ACTIVITIES HEALTH DEPARTMENT BASED		PASS-THROUGH	HELUNA HEALTH	20-10318	276,206	
93.940	HIV PREVENTION ACTIVITIES HEALTH DEPARTMENT BASED		PASS-THROUGH	SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH	SPDPH-D8383	5,982	
93.940 Total						1,878,392	
93.947	TUBERCULOSIS DEMONSTRATION, RESEARCH, PUBLIC AND PROFESSIONAL EDUCATION		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,381,193	
93.947 Total						1,381,193	
93.958	BLOCK GRANTS FOR COMMUNITY MENTAL HEALTH SERVICES		PASS-THROUGH	SIERRA HEALTH FOUNDATION	CA20MAT342	(114)	
93.958 Total						(114)	
93.959	BLOCK GRANTS FOR PREVENTION AND TREATMENT OF SUBSTANCE ABUSE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	21-10360	1,949	
93.959	BLOCK GRANTS FOR PREVENTION AND TREATMENT OF SUBSTANCE ABUSE		PASS-THROUGH	CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES	18-95330	252,467	
93.959	COVID-19 - BLOCK GRANTS FOR PREVENTION AND TREATMENT OF SUBSTANCE ABUSE	COVID-19	PASS-THROUGH	SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH	SPDPH-E1321	83,194	
93.959 Total						337,610	

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93.969	COVID-19 - PPHF GERIATRIC EDUCATION CENTERS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		1,489	
93.969	PPHF GERIATRIC EDUCATION CENTERS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		76,637	37,788
93.969 Total						78,126	37,788
93.977	SEXUALLY TRANSMITTED DISEASES (STD) PREVENTION AND CONTROL GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	18-10444	5,145,171	
93.977	SEXUALLY TRANSMITTED DISEASES (STD) PREVENTION AND CONTROL GRANTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	18-10459	145,116	
93.977 Total						5,290,287	
93.978	COVID-19 - SEXUALLY TRANSMITTED DISEASES (STD) PROVIDER EDUCATION GRANTS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		2,049,150	965,968
93.978	SEXUALLY TRANSMITTED DISEASES (STD) PROVIDER EDUCATION GRANTS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)		208,503	
93.978 Total						2,257,653	965,968
93.991	PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	CA/DPH 18-10617	6	
93.991	PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	18-10566	544,155	
93.991	PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	D9678-000	193,421	
93.991 Total						737,582	
93.U01	COVID-19 - FEDERAL CONTRACTS	COVID-19	DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	20IPA2014102	37,510	
93.U01 Total						37,510	
93.U02	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	E-0254	6,829	
93.U02 Total						6,829	
93.U03	FEDERAL CONTRACTS		PASS-THROUGH	POLYNOVO BIOMATERIALS PTY. LTD.	2016	3,343	
93.U03 Total						3,343	
93.U04	FEDERAL CONTRACTS		PASS-THROUGH	MCKING CONSULTING CORPORATION	A21-2	3,568	
93.U04 Total						3,568	
93.U05	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	DUKE UNIVERSITY	A21-2677-01	374	
93.U05 Total						374	
93.U06	FEDERAL CONTRACTS		PASS-THROUGH	IMPAQ INTERNATIONAL	2758	723,745	
93.U06 Total						723,745	
93.U07	FEDERAL CONTRACTS		PASS-THROUGH	MOST INVESTMENTS, LLC	LOA	710,431	
93.U07 Total						710,431	
93.U08	FEDERAL CONTRACTS		PASS-THROUGH	DUKE UNIVERSITY	HHSN27200008	14,616	
93.U08 Total						14,616	
93.U09	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	CDPH71D79	2,428,262	
93.U09 Total						2,428,262	
93.U10	FEDERAL CONTRACTS		PASS-THROUGH	NATIONAL FRAGILE X FOUNDATION	A21-3	4,159	
93.U10 Total						4,159	
93.U11	FEDERAL CONTRACTS		PASS-THROUGH	CENTER FOR COMPREHENSIVE CARE & DIAGNOSIS OF INHERITED BLOOD	U27DD001155	748	
93.U11 Total						748	
93.U12	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	REGENERON PHARMACEUTICALS, INC.	A20-3949	95,434	
93.U12 Total						95,434	
93.U13	COVID-19 - FEDERAL CONTRACTS	COVID-19	PASS-THROUGH	WESTAT	20221488-08	6,301	
93.U13 Total						6,301	
93.U14	FEDERAL CONTRACTS		DIRECT	DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)	75D30118C03490	305,074	
93.U14 Total						305,074	
93.U15	FEDERAL CONTRACTS		PASS-THROUGH	WESTAT	6049.03-S02	121	
93.U15 Total						121	
94.006	AMERICORPS		PASS-THROUGH	CALIFORNIA VOLUNTEERS, OFFICE OF THE GOVERNOR	20A-FHY27	228,716	
94.006	AMERICORPS		PASS-THROUGH	CALIFORNIA VOLUNTEERS, OFFICE OF THE GOVERNOR	011991	43,699	
94.006	AMERICORPS		PASS-THROUGH	CALIFORNIA VOLUNTEERS, OFFICE OF THE GOVERNOR	CCSFR019	35,924	
94.006	AMERICORPS		PASS-THROUGH	JUMPSTART FOR YOUNG CHILDREN, INC.	3330200	168,771	
94.006	AMERICORPS		PASS-THROUGH	JUMPSTART FOR YOUNG CHILDREN, INC.	900200	(1,026)	
94.006	AMERICORPS		PASS-THROUGH	SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES	20200481	4,052	
94.006 Total						251,420	
94.006 Total						228,716	
94.013	VOLUNTEERS IN SERVICE TO AMERICA		DIRECT	CORPORATION FOR NATIONAL AND COMMUNITY SERVICE (CNCS)		17	
94.013 Total						17	
94.U01	FEDERAL CONTRACTS		PASS-THROUGH	CALIFA GROUP	40-9043	4,958	
94.U01 Total						4,958	
97.005	STATE AND LOCAL HOMELAND SECURITY NATIONAL TRAINING PROGRAM		PASS-THROUGH	THE CENTER FOR RURAL DEVELOPMENT	EMW2016CA00097501	331	
97.005	STATE AND LOCAL HOMELAND SECURITY NATIONAL TRAINING PROGRAM		PASS-THROUGH	THE CENTER FOR RURAL DEVELOPMENT	FY1700052S01	82,221	
97.005	STATE AND LOCAL HOMELAND SECURITY NATIONAL TRAINING PROGRAM		PASS-THROUGH	THE CENTER FOR RURAL DEVELOPMENT	FY19-00048-S01	9,403	
97.005	STATE AND LOCAL HOMELAND SECURITY NATIONAL TRAINING PROGRAM		PASS-THROUGH	THE CENTER FOR RURAL DEVELOPMENT	FY20-0008	62,920	
97.005 Total						154,875	
97.012	BOATING SAFETY FINANCIAL ASSISTANCE		PASS-THROUGH	CALIFORNIA DIVISION OF BOATING AND WATERWAYS	C8966311	4,542	
97.012	BOATING SAFETY FINANCIAL ASSISTANCE		PASS-THROUGH	CALIFORNIA DIVISION OF BOATING AND WATERWAYS	C8965335	12,378	
97.012	BOATING SAFETY FINANCIAL ASSISTANCE		PASS-THROUGH	CALIFORNIA DIVISION OF BOATING AND WATERWAYS	C8966310	148	
97.012	BOATING SAFETY FINANCIAL ASSISTANCE		PASS-THROUGH	CALIFORNIA DIVISION OF BOATING AND WATERWAYS	C8965336	11,822	
97.012 Total						28,890	
97.032	CRISIS COUNSELING		PASS-THROUGH	CALIFORNIA MENTAL HEALTH SERVICES AUTHORITY	FEMA-202	129,109	
97.032 Total						129,109	
97.036	COVID-19 - DISASTER GRANTS-PUBLIC ASSISTANCE (PRESIDENTIALLY DECLARED DISASTERS)	COVID-19	DIRECT	DEPARTMENT OF HOMELAND SECURITY (DHS)		691,380	
97.036	COVID-19 - DISASTER GRANTS-PUBLIC ASSISTANCE (PRESIDENTIALLY DECLARED DISASTERS)	COVID-19	PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	000-UR86C-00	1,205,866	
97.036	COVID-19 - DISASTER GRANTS-PUBLIC ASSISTANCE (PRESIDENTIALLY DECLARED DISASTERS)	COVID-19	PASS-THROUGH	ORANGE COUNTY HEALTH CARE AGENCY	OCHCA-77536	6,021	
97.036 Total						1,903,267	
97.067	HOMELAND SECURITY GRANT PROGRAM (HSGP)		PASS-THROUGH	CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	2018-0054	498,569	
97.067 Total						498,569	
97.U01	FEDERAL CONTRACTS		PASS-THROUGH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	CDPH82D16	1,776,249	753,975
97.U01 Total						1,776,249	753,975

**University of California
Schedule of Expenditures of Federal Awards**

**For the Fiscal Year Ended June 30, 2022
(Expressed in Whole Dollars)**

Assistance Listing Number	Federal Program Title	Additional Award Identification	Direct / Pass Through	Agency or Pass Through Entity	Pass Through No. or Other Identifier	Federal Expenditures	Funds Passed Through to Subrecipients
98.001	COVID-19 - USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	COVID-19	PASS-THROUGH	PUBLIC HEALTH INSTITUTE	02200	747,607	137,154
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		DIRECT	U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)		14,539,675	10,437,634
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	FAMILY HEALTH INTERNATIONAL	PO21000060	65,847	50,530
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	INTERNATIONAL AIDS VACCINE INITIATIVE INC.	2395	172,297	
98.001	USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS		PASS-THROUGH	PATH	AID.574718-01706926-SUB	111,218	
98.001 Total						15,636,644	10,625,318
98.006	FOREIGN ASSISTANCE TO AMERICAN SCHOOLS AND HOSPITALS ABROAD (ASHA)		DIRECT	U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)		51,402	
98.006 Total						51,402	
OTHER FEDERAL PROGRAMS Total						1,348,648,501	59,095,359
TOTAL EXPENDITURES						\$7,524,064,142	\$576,071,635

**University of California
Schedules of Expenditures of Federal Awards**

**For the Fiscal Year Ended
June 30, 2022
(Expressed in Whole Dollars \$)**

Notes A - G

A. General

The accompanying Summary Schedule of Expenditures of Federal Awards and Schedule of Expenditures of Federal Awards (“SEFA”) (collectively the “Schedules”) present the activity of all federal financial assistance programs of the University of California (the “University”), a component unit of the State of California.

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 do not include the expenditures of the Lawrence Berkeley National Laboratory (“LBNL”) – 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.

B. Basis of Accounting

The accompanying Schedules are 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 administered directly by the University, 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.

C. Assistance Listing 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. Pass-through awards have been presented by pass-through entity, assistance listing number, sponsor’s award number, when available, or by the University assigned identifier. Awards granted from the LBNL to the campuses are presented as direct awards on the SEFA since the University is operating and managing LBNL.

If the assistance listing three-digit extension is unknown, it is assigned a “U” followed by a two-digit number (e.g., U01, U02, etc.). If the Federal program is part of the R&D cluster and the assistance listing three-digit extension is unknown, “RD” is used as the assistance listing extension.

D. Commingled Assistance

The University has included, within the Schedules 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.

**University of California
Schedules of Expenditures of Federal Awards**

**For the Fiscal Year Ended
June 30, 2022
(Expressed in Whole Dollars \$)**

Notes A - H

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, assistance listing number 93.558, from the United States Department of Health and Human Services may comprise up to approximately 52% of the total funding for these Cal Grant awards.

In fiscal year 2022, the University paid Cal Grant A and B funds in the amount of \$952,591,280; however, CSAC is unable to determine the exact amount of TANF funds, if any, represented in those awards. Therefore, the Schedules do not include State Grant A and B awards.

E. Outstanding Balances on Loan Programs

Outstanding balances on federal loans programs administered directly by the University as of June 30, 2022 are as follows:

	Assistance Listing No.	Principal Outstanding
Federal Perkins Loan Program	84.038	\$81,675,024
Health Professions Student Loans, Loans for Disadvantaged Students, Primary Care Loans	93.342	\$67,929,444
Nursing Student Loans	93.364	\$1,864,051
Nursing Student Faculty Loans	93.264	\$396,175

F. Facilities and Administrative Costs

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

G. Department of Health and Human Services – Provider Relief Funds

The University of California was the recipient of funding under assistance listing number 93.498, *Provider Relief Fund* ("PRF"), and as required based on guidance in the 2022 *OMB Compliance Supplement*, the Schedules include all funds received between July 1, 2020, and December 31, 2020 (Period 2), and between January 1, 2021 and June 30, 2021 (Period 3), and expended by June 30, 2022, as reported to the Health Resources and Services Administration ("HRSA") via the PRF Reporting Portal. In addition, the Schedules include \$26,844,175 of Period 1 funds (received between April 10, 2020, and June 30, 2020, and expended in the fiscal year June 30, 2021) as they were not included in the prior year Schedules. The error was discovered by the University while preparing the current year Schedules.

The Schedules include direct expenditures and lost revenue by period as set forth in the table below. Given the timing covered by Period 2 and 3 funds, these expenses were reflected in the University's fiscal year 2021 financial statements. Additionally, lost revenue does not represent an expenditure in the University's financial statements and thus is a reconciling item between the federal expenses in the University's financial statements and the amount included on the Schedules.

**University of California
Schedules of Expenditures of Federal Awards**

**For the Fiscal Year Ended
June 30, 2022
(Expressed in Whole Dollars \$)**

Notes A - H

	Direct Expenses	Lost Revenue	Total
Period 1 (April 10 – June 30, 2020)	\$21,226,275	\$5,617,900	\$26,844,175
Period 2 (July 1 – December 31, 2020)	99,306,065	264,924,435	364,230,500
Period 3 (January 1 - June 30, 2021)	7,899,689	63,264,066	71,163,755
Total	\$128,432,029	\$333,806,401	\$462,238,430

H. Department of Education – Higher Education Emergency Relief Funds

The University of California was the recipient of funding under assistance listing number 84.425, Higher Education Emergency Relief Fund (HEERF). Of the amounts on the Schedules, \$206,834,222 are supported by lost revenue, as allowed under the terms and conditions of the program. As such, this amount represents a reconciling item between the federal expenses in the University's financial statements and the amount included on the Schedules.



**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”), a component unit of the State of California, the aggregate discretely presented component units, and the aggregate remaining fund information as of and for the year ended June 30, 2022, including the related notes, which collectively comprise the University’s basic financial statements as listed in the table of contents, and have issued our report thereon dated November 21, 2022, which includes an emphasis of matter paragraph related to the University changing the manner in which it accounts for leases as discussed in the Notes to the Financial Statements – Significant Accounting Policies. 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.

Report on 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) as a basis for designing 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 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 and therefore, material weaknesses or significant deficiencies may exist that were not identified. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. We did identify a certain deficiency in internal control, described in the accompanying schedule of findings and questioned costs as item 2022-001, that we consider to be a significant deficiency.

Report on 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 statements. 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*.

The University's Response to Findings

Government Auditing Standards requires us to perform limited procedures on the University's response to the finding identified in our audit and described in the accompanying schedule of findings and questioned costs. The University's response was not subjected to the other auditing procedures applied in the audit of the financial statements and, accordingly, we express no opinion on the response.

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 University'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 University's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

PricewaterhouseCoopers LLP

San Francisco, California
November 21, 2022



Report of Independent Auditors on Compliance for Each Major Program and on Internal Control Over Compliance Required by Uniform Guidance

To the Regents of the University of California

Report on Compliance for Each Major Federal Program

Opinion on 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, 2022. 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.

In our opinion, the University complied, in all material respects, with the 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, 2022.

Basis for Opinion on Each Major Federal Program

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America (US GAAS); 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). Our responsibilities under those standards and the Uniform Guidance are further described in the Auditors' Responsibilities for the Audit of Compliance section of our report.

We are required to be independent of the University and to meet our other ethical responsibilities, in accordance with relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion on compliance for each major federal program. Our audit does not provide a legal determination of the University's compliance with the compliance requirements referred to above.

Responsibilities of Management for Compliance

Management is responsible for compliance with the requirements referred to above and for the design, implementation, and maintenance of effective internal control over compliance with the requirements of laws, statutes, regulations, rules and provisions of contracts or grant agreements applicable to the University's federal programs.

Auditors' Responsibilities for the Audit of Compliance

Our objectives are to obtain reasonable assurance about whether material noncompliance with the compliance requirements referred to above occurred, whether due to fraud or error, and express an opinion on the University's compliance based on our audit. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with US GAAS, *Government Auditing Standards*, and the Uniform Guidance will always detect material noncompliance when it exists. The risk of not detecting material noncompliance resulting from fraud is higher than for that resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Noncompliance with the compliance



requirements referred to above is considered material, if there is a substantial likelihood that, individually or in the aggregate, it would influence the judgment made by a reasonable user of the report on compliance about the University's compliance with the requirements of each major federal program as a whole.

In performing an audit in accordance with US GAAS, *Government Auditing Standards*, and the Uniform Guidance, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
 - Identify and assess the risks of material noncompliance, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the University's compliance with the compliance requirements referred to above and performing such other procedures as we considered necessary in the circumstances.
 - Obtain an understanding of the University's internal control over compliance relevant to the audit in order to design audit procedures that are appropriate in the circumstances 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 the University's internal control over compliance.
- Accordingly, no such opinion is expressed.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and any significant deficiencies and material weaknesses in internal control over compliance that we identified during the audit.

Other Matters

As indicated in Part I to the accompanying Schedule of Findings and Questioned Costs, we have audited the Student Financial Assistance cluster as a major program. Also, as indicated in the first paragraph of this report, we performed our audit of compliance using the compliance requirements contained in the OMB Compliance Supplement, including those contained in Part V 5.3, Compliance Requirement N, Special Tests and Provisions, Section 13 "Gramm-Leach-Bliley Act-Student Information Security." This section includes three suggested audit procedures with respect to verification that the institution (1) designated an employee or employees to coordinate the information security program, (2) performed a risk assessment that addresses the three required areas in 16 CFR 314.4(b), and (3) documented a safeguard for each risk identified. Our procedures in relation to these three items were limited to inquiry of and obtaining written representation from management and obtaining and reading management's documentation related to these three items. Our procedures did not include an analysis of the adequacy or completeness of the risk assessment performed or the safeguards for each risk identified by management.

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 2022-002 through 2022-008. Our opinion on each major federal program is not modified with respect to these matters.

Government Auditing Standards requires the auditor to perform limited procedures on the University's response to the noncompliance findings identified in our audit described in the accompanying schedule of findings and questioned costs. The University's response was not subjected to the other auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the response.



Report on Internal Control Over Compliance

Our consideration of internal control over compliance was for the limited purpose described in the Auditors' Responsibilities for the Audit of Compliance section above and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies in internal control over compliance and therefore, material weaknesses or significant deficiencies may exist that have not been identified. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, as discussed below, we did identify a certain deficiency in internal control over compliance that we consider to be a significant deficiency.

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. We consider the deficiency in internal control over compliance described in the accompanying schedule of findings and questioned costs as item 2022-008 to be a significant deficiency.

Our audit was not designed for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, no such opinion is expressed.

Government Auditing Standards requires the auditor to perform limited procedures on the University's response to the internal control over compliance findings identified in our audit described in the accompanying schedule of findings and questioned costs. The University's response was not subjected to the other auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the response.

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
March 24, 2023

University of California
Schedule of Findings and Questioned Costs
Year Ended June 30, 2022

SECTION I – SUMMARY OF AUDITOR’S RESULTS

Financial Statements

Type of auditor’s report issued:	Unmodified opinion
Internal control over financial reporting:	
• Material weakness(es) identified?	No
• Significant deficiency(ies) identified that are not considered to be material weaknesses	Yes
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	Yes
Type of auditor’s report issued on compliance for major programs	Unmodified opinion

Any audit findings that are required to be reported in accordance with

2 CFR 200.516(a)? Yes

Identification of major programs:

Program Name	Assistance Listing Number(s)
Student Financial Assistance Cluster	Various
COVID-19 – Elementary and Secondary School Emergency Relief Fund, Higher Education Emergency Relief Fund Student Aid Portion, Higher Education Emergency Relief Fund Institutional Aid Portion, Higher Education Emergency Relief Fund Minority Serving Institutions, HEERF Supplemental Assistance to Institutions of Higher Education Program	84.425D, 84.425E, 84.425F, 84.425L, 84.425S
COVID-19 – Provider Relief Fund and American Rescue Plan (ARP) Rural Distribution	93.498
COVID-19 – Shuttered Venue Operators Grant Program	59.075

Dollar threshold used to distinguish between type A and type B programs: \$22,572,192

Auditee qualified as a low-risk auditee? Yes

University of California
Schedule of Findings and Questioned Costs
Year Ended June 30, 2022

SECTION II – FINANCIAL REPORTING FINDINGS

2022-001: IT General Controls for Retirement System (Significant Deficiency)

Criteria

As part of our audit, we are required to obtain an understanding of internal controls relevant to the audit, which includes the end-to-end process around key financial reporting cycles and evidence the implementation of relevant controls and the related IT dependencies. (AU-C section 315)

Condition

The University of California (the “University”) implemented Redwood, a retirement recordkeeping system in March 2019, which is used throughout the University, except Children’s Hospital & Research Center Oakland. The University partners with a vendor to perform hosting of the system and certain IT controls responsibilities are outsourced to the vendor for the retirement system, including:

- Granting/revoking database level access including database administrator privileged access (i.e. provisioning/deprovisioning);
- Developing, testing and migrating changes into production, as well as ensuring segregation of duties between developers and migrators, and
- Restricting access to the job scheduler used to run the new retirement system jobs.

While the University has processes over those IT activities within their control, the University relies on the vendor for the execution of the aforementioned key IT general controls. In situations where significant operations are subject to third party oversight, service organizations will typically provide users with an AICPA Systems & Organization Controls audit report that specifically addresses the design and operating effectiveness of internal controls (SOC 1 Type 2 report).

In 2019, documentation could not be provided by the vendor to evidence the design, implementation, and operation of key IT controls. The result was the absence of key vendor IT controls over the making and migrating of changes, granting/revoking database level access, and restricting access to the job scheduler, which results in the University having no IT controls on the ongoing validity, completeness or accuracy of the data processed in the retirement system or in the reports generated from the retirement system.

The University has previously received SOC 1 Type 2 reports for Redwood, however, management ultimately concluded the reports were insufficient in order to determine the effectiveness of key IT controls at the service provider. As such, consistent with fiscal years 2019, 2020, and 2021, this has been determined to be a significant deficiency in internal control over financial reporting requiring communication to those charged with governance and is considered a repeat of finding 2021-001.

Cause

While the University has processes over those IT activities within their control, the University relies on the vendor for the execution of the aforementioned key IT general controls. Documentation could not be provided by the vendor to evidence the design, implementation, and operation of key IT controls.

Effect

The absence of key IT controls over granting/revoking database level access, the making and migrating of changes, and restricting access to the job scheduler results in risks related to the ongoing validity, completeness, and accuracy of the data processed in the retirement system or in the reports generated from the retirement system.

Questioned Costs

None noted.

University of California
Schedule of Findings and Questioned Costs
Year Ended June 30, 2022

Recommendation

We recommend the University undertake actions to have the aforementioned IT general controls related to the retirement system designed and implemented appropriately, including maintaining the evidence of operating effectiveness of related controls.

Management's Views and Corrective Action Plan

Management's response is included in "Management's Views and Corrective Action Plan" included at the end of this report after the summary schedule of status of prior audit findings.

University of California
Schedule of Findings and Questioned Costs
Year Ended June 30, 2022

SECTION III – FEDERAL AWARD FINDINGS AND QUESTIONED COSTS

2022-002 – Reporting into the Common Origination and Disbursement (COD) System

Cluster: Student Financial Assistance

Sponsoring Agency: Department of Education

Award Names: Federal Pell Grant Program and Federal Direct Student Loans

Award Numbers: Not applicable

Assistance Listing Titles: Federal Pell Grant Program and Federal Direct Student Loans

Assistance Listing Numbers: 84.063 and 84.268

Award Year: 2021-2022

Pass-through entity: Not applicable

Criteria

Institutions submit Direct Loan, Pell Grant, TEACH Grant, and Iraq and Afghanistan Service Grant origination records and disbursement records to the COD system. Origination records can be sent well in advance of any disbursements, as early as the institution chooses to submit them for any student the institution reasonably believes will be eligible for a payment. An institution on the advance method follows up with a disbursement record for that student no earlier than 7 calendar days prior to the disbursement date under the advance or heightened cash monitoring payment methods. The disbursement record reports the actual disbursement date and the amount of the disbursement. Institutions must report student disbursement data within 15 calendar days after the institution makes a disbursement or becomes aware of the need to make an adjustment to previously reported student disbursement data or expected student disbursement data. The Compliance Supplement notes that the key items for an auditor to test on origination records, if applicable, are: Social Security number, award amount, enrollment date, verification status code (when applicable), transaction number, cost of attendance, and academic calendar. Key items to test on disbursement records are disbursement date and amount.

Condition

Through our testing of 100 selections across 4 campuses, we noted at one campus that the date of disbursement per the COD did not match the date per the student account detail for 12 out of 25 selections. Additionally, 5 of the 25 selections were not reported to the COD within 15 calendar days of the disbursement to the student. On average, the 5 disbursements were reported 9 calendar days late. Lastly, for one selection, a student was reported into the COD 8 days before the disbursement, which is 1 day earlier than permitted by the regulation.

Cause

Through discussions with management, they noted that the errors and late/early reporting were due to staffing and training issues, as they continue to be challenged with staff retention and recruitment.

Effect

Inaccurate information within the COD system could lead to inaccurate information in reports utilized by the Department of Education.

Questioned Costs

None noted.

Recommendation

We recommend the campus provide additional training on COD reporting requirements, including on the disbursement dates that should be reported and the timeline for reporting and that additional reviews be considered to identify potential errors prior to submission into the COD.

University of California
Schedule of Findings and Questioned Costs
Year Ended June 30, 2022

Management's Views and Corrective Action Plan

Management's response is included in "Management's Views and Corrective Action Plan" included at the end of this report after the summary schedule of status of prior audit findings.

University of California
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2022-003 – Return of Title IV Funds

Cluster: Student Financial Assistance

Sponsoring Agency: Department of Education

Award Names: Federal Supplemental Educational Opportunity Grants (FSEOG), Federal Pell Grant Program and Federal Direct Student Loans

Award Numbers: Not applicable

Assistance Listing Titles: Federal Supplemental Educational Opportunity Grants (FSEOG), Federal Pell Grant Program and Federal Direct Student Loans

Assistance Listing Numbers: 84.007, 84.063 and 84.268

Award Year: 2021-2022

Pass-through entity: Not applicable

Criteria

Returns of Title IV funds are required to be deposited or transferred into the SFA account or alternatively, electronic fund transfers are required to be initiated to the Department of Education as soon as possible, but no later than 45 days after the date the institution determines that the student withdrew. Returns by check are late if the check is issued more than 45 days after the institution determined the student withdrew or the date on the canceled check shows the check was endorsed more than 60 days after the date the institution determined that the student withdrew (34 CFR 668.173(b)).

Condition

Through our testing of 100 students with Title IV awards who withdrew or otherwise left the University across 4 campuses, we noted the following at 2 campuses:

- 25 students were selected for testing at 1 campus and 6 of those 25 selections required a Title IV refund be submitted to the Department of Education. In 5 out of 6 of these instances, the refund was not submitted to the Department of Education within 45 days. On average, they were submitted 61 days late.
- 25 students were selected for testing at 1 campus and 15 of those 25 selections required a Title IV refund be submitted to the Department of Education. In 2 out of 15 of these instances, the refund was not submitted to the Department of Education within 45 days. On average, they were submitted 17 days late.

Cause

- Management at the first campus indicated there were staffing transitions in the unit responsible for the return of Title IV calculations, which resulted in processing delays.
- Management at the second campus, indicated that due to staffing changes and training, the October COD file was submitted outside of the expected timeframe, resulting in the late returns of Title IV funds.

Effect

The lack of timeliness in the return of Title IV aid could result in the University accruing additional interest that will need to be assessed and paid back.

Questioned Costs

None noted.

Recommendation

We recommend both campuses review their staffing and training protocols to ensure in the event of turnover that there are no gaps in the management Title IV refund requirements.

University of California
Schedule of Findings and Questioned Costs
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Management's Views and Corrective Action Plan

Management's response is included in "Management's Views and Corrective Action Plan" included at the end of this report after the summary schedule of status of prior audit findings.

University of California
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2022-004 – Enrollment Reporting

Cluster: Student Financial Assistance

Sponsoring Agency: Department of Education

Award Names: Federal Pell Grant Program and Federal Direct Student Loans

Award Numbers: Not applicable

Assistance Listing Titles: Federal Pell Grant Program and Federal Direct Student Loans

Assistance Listing Numbers: 84.063 and 84.268

Award Year: 2021-2022

Pass-through entity: Not applicable

Criteria

Institutions are required to report enrollment information under the Pell grant and the Direct loan programs via the NSLDS (OMB No. 1845-0035), (Pell, 34 CFR 690.83(b)(2); Direct Loan, 34 CFR 685.309). The administration of the Title IV programs depends heavily on the accuracy and timeliness of the enrollment information reported by institutions. Institutions must review, update, and verify student enrollment statuses, program information, and effective dates that appear on the Enrollment Reporting Roster file or on the Enrollment Maintenance page of the NSLDS Professional Access (NSLDSFAP) website. The data on the institution's Enrollment Reporting Roster, or Enrollment Maintenance page, is what NSLDS has as the most recently certified enrollment information. There are two categories of enrollment information, "Campus Level" and "Program Level," both of which need to be reported accurately and have separate record types.

Under the Direct Loan programs, schools must complete and return within 15 days the Enrollment Reporting roster file placed in their Student Aid Internet Gateway (SAIG) mailboxes sent by the Department of Education via the National Student Loan Data System ("NSLDS"). The institution determines how often it receives the Enrollment Reporting roster file with the default set at every two months, but the minimum is twice a year. Once received, the institution must update for changes in student status, report the date the enrollment status was effective, enter the new anticipated completion date, and submit the changes electronically through the batch method or the NSLDS website. Unless the school expects to complete its next roster within 60 days, the school must notify the lender or the guaranty agency within 30 days, if it discovers that a student who received a loan either did not enroll or ceased to be enrolled on at least a half-time basis (Direct Loan, 34 CFR section 685.309).

Condition

Through our testing of 100 enrollment reporting selections across 4 campuses, we noted the following at 2 campuses:

- For 3 of 25 selections at one campus, we noted that the effective date of the change per NSLDS did not agree to the effective date of the actual status change per the student file. In each of these instances, the student was changing from part-time to full-time.
- For 4 of 25 selections at a third campus, we noted that the students were reported as withdrawn when they should have been reported as graduated.

Our understanding in each of the scenarios above, is that there would be no impact on repayment dates for students with loans, and thus these errors do not result in questioned costs or have an impact to the student or federal government.

Cause

- The cause of the reporting finding at the first campus is that there was a system error that was backdating the campus-level enrollment effective date to the first date of the term when a student increased attendance, which is why the effective date per NSLDS did not agree to the effective date in the student file.
- Regarding the second campus, this finding relates to the sequence of reporting enrollment changes

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during the summer, and ultimately has a broader impact going back several years. During the summer, management noted they correctly reported graduated status more than once. However, in their final summer enrollment file, the status for these students was noted to be full-time status, which was true, but this full-time status overwrote their previously reported graduated status. Under standard practice, when these students did not appear in the fall enrollment file, the National Student Clearinghouse derived a withdrawn status, which was reported to NSLDS. There were also various error reports for which this campus was behind on fully resolving, resulting in this issue not being identified by management

Effect

The effective administration of Title IV loans could be impacted when changes in students' status are not reported timely and accurately. The accuracy of enrollment information is important as the student's enrollment status determines eligibility for the in-school status, deferment, grace periods, and repayments, as well as the Government's payment of interest subsidies.

Questioned Costs

None noted.

Recommendation

We recommend management implement controls to identify inconsistencies in enrollment reporting information and to ensure COD error reports are resolved in a timely manner.

Management's Views and Corrective Action Plan

Management's response is included in "Management's Views and Corrective Action Plan" included at the end of this report after the summary schedule of status of prior audit findings.

University of California
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2022-005 – HEERF Institutional portion unallowable costs

Cluster: Not applicable

Sponsoring Agency: Department of Education

Award Names: COVID-19 Higher Education Emergency Relief Fund (HEERF) II and III Institutional Portions

Award Numbers: P425F202269 and P425F201852 - 20A

Assistance Listing Title: COVID-19 HEERF Institutional Portion

Assistance Listing Number: 84.425F

Award Year: 2020-2022

Pass-through entity: Not applicable

Criteria

The Department of Education Certification and Agreement for both HEERF II and HEERF III notes that recipients may use these grant funds for Institutional costs to defray expenses associated with COVID-19 (including lost revenue, reimbursement for expenses already incurred, technology costs associated with a transition to distance education, faculty and staff trainings, and payroll), and make additional emergency financial grants to students, which may be used for any component of the student's cost of attendance or for emergency costs that arise due to coronavirus, such as tuition, food, housing, health care (including mental health care), or child care. Cost of attendance, as defined under section 472 of the Higher Education Act, includes food, housing, course materials, technology, health care, and child-care.

Condition

Through our testing of 75 institutional portion costs across 3 campuses, we noted the following at 2 campuses:

- 1 out of 25 selections tested at one campus related to \$250 scholarships awarded to 19 students totaling \$4,750 for summer 2021. These scholarships were awarded to students participating in an early start academy to help the student prepare for future academic success. Criteria to qualify for the scholarships included earning a 2.5 GPA or higher, passing HESA 001, completing/turning in an education plan and attending 4 academic support sessions at the Academic Resource Center. This scholarship program was not related to awarding funds to students for emergency costs arising due to COVID-19 or for elements of the cost of attendance, as defined in the criteria above. In total, \$58,000 in awards were made to students under this scholarship program in fiscal year 2022, which were not allowable costs per HEERF guidelines.
- At a second campus, we performed testing over \$21,803,672 claimed in lost revenue, which was supported in part by \$6,103,672 of lost rental revenue. Through our testing of individual leases making up the lost rental revenue, we noted:
 - 1 lease arrangement totaling \$1,345,330 was selected for testing and management noted that this lease should have been excluded from the analysis. It was included in an initial analysis as reflecting potential lost revenue, but lost revenue was not ultimately realized and this lease was not appropriately removed in the final lost revenue analysis.
 - 1 lease in which the supporting spreadsheet calculation of lost revenue was incorrect. This lease had different terms than others in the spreadsheet, but lost revenue was calculated as if the terms were consistent with the other leases, resulting in an overstatement of lost revenue of \$39,000.
- Additionally, at the second campus, for each of our 7 fringe benefit selections, totaling \$19,581 we were unable to obtain support for the 52% fringe benefits rate used to derive the amount charged to the award. We were able to see approved hours worked on the award and support for the employee pay rates, however, the 52% rate used to derive the fringe benefits charged could not be provided by management.

University of California
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Cause

- In the first instance, the use of these funds went through all appropriate approval levels, including the Provost and Chancellor, however, there was a lack of understanding that this scholarship program did not meet the HEERF III criteria noted above.
- In the second instance, the impacted campus has a significant amount of leases and the process for tracking the leases, lease amendments due to COVID-19 and the associated lost revenue analysis was manual. There also was no formal evidence of review of this analysis prior to it being provided to central campus finance management.
- In the third instance, management could not locate the support for the rate used due to not maintaining complete internal records.

Effect

Given the nature of the expenses above, they were not eligible for reimbursement under HEERF and resulted in questioned costs.

Questioned Costs

\$1,461,911

Recommendation

We recommend management at the first campus review any future scholarship programs being funded with HEERF institutional funds to ensure they meet the criteria laid out in the HEERF certification and agreement.

We recommend that management at the second campus review their lease tracking and management process and formalize controls over the review of future lost revenue analyses. Additionally, they should ensure support for all costs charged to the HEERF award can be fully supported, including support for the fringe benefits rate being charged.

Additionally, in both of these scenarios, management should reverse these transactions, update quarterly HEERF reports, as needed, and determine if the funds can be used for other allowable purposes and/or return the funds to the federal government.

Management's Views and Corrective Action Plan

Management's response is included in "Management's Views and Corrective Action Plan" included at the end of this report after the summary schedule of status of prior audit findings.

University of California
Schedule of Findings and Questioned Costs
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2022-006 – Quarterly Higher Education Emergency Relief Fund (HEERF) Reporting

Cluster: Not applicable

Sponsoring Agency: Department of Education

Award Names: COVID-19 Higher Education Emergency Relief Fund (HEERF) Student Portion and COVID-19 HEERF Supplemental Assistance to Institutions of Higher Education (SAIHE) Program

Award Numbers: P425F202269 and P425S210019

Assistance Listing Titles: COVID-19 HEERF Student Portion and COVID-19 HEERF SAIHE Program

Assistance Listing Number: 84.425E and 84.425S

Award Year: 2020-2022

Pass-through entity: Not applicable

Criteria

The quarterly HEERF reporting format requires institutions to report the total amount of HEERF (a)(1) Student Aid disbursed directly to students as Emergency Financial Aid Grants along with other information. (a)(1) is equivalent to funds disbursed under Assistance Listing #84.425E. SAIHE funds are considered (a)(3) funds and are required to be reported in a separate section of the quarterly HEERF report. Reports are required to be posted to an institution's website 10 days after each calendar quarter end.

Condition

Through our testing of 14 quarterly student and institutional reports across 4 campuses, we noted the following at 1 campus:

- Through our testing, we reconciled the total cumulative student spending as reported on the June 30, 2022 quarterly report to the total cumulative spending of the student portion at this campus and noted that total student funds reported were \$1,505,755 in excess of the cumulative awards actually spent. This variance represented 50% of this campus's award under 84.425S, which was awarded to students, however, this should not have been included in the 84.425E totals.
- The June 30, 2022 quarterly report was also submitted 2 days late.

Cause

Management did not realize that 84.425S funds awarded to students should not be commingled in the quarterly reports with the 84.425E student portion spending. Additionally, the due date of the report was a Sunday and instead of recognizing the report should be submitted the next business day or prior, it was submitted 2 days late.

Effect

The lack of timely and accurate reports could impact decision making of report users, including the Department of Education and the general public, among others.

Questioned Costs

None noted.

Recommendation

We recommend management amend their June 30, 2022 report to include the correct amounts and assess whether any other quarters are impacted. Additionally, they should implement a control to review proper classification of funds in future quarterly reports and to ensure timely submission.

Management's Views and Corrective Action Plan

Management's response is included in "Management's Views and Corrective Action Plan" included at the end of this report after the summary schedule of status of prior audit findings.

University of California
Schedule of Findings and Questioned Costs
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2022-007 – HEERF Procurement, Suspension and Debarment

Cluster: Not applicable

Sponsoring Agency: Department of Education

Award Names: COVID-19 Higher Education Emergency Relief Fund (HEERF) Institutional Portion

Award Numbers: P425F202269

Assistance Listing Title: COVID-19 HEERF Institutional Portion

Assistance Listing Number: 84.425F

Award Year: 2020-2022

Pass-through entity: Not applicable

Criteria

A non-Federal entity must have and use documented procurement procedures and is prohibited from contracting with or making subawards under covered transactions to parties that are suspended or debarred. When a non-federal entity enters into a covered transaction with an entity at a lower tier, the non-Federal entity must verify that the entity, as defined in 2 CFR section 180.995 and agency adopting regulations, is not suspended or debarred or otherwise excluded from participating in the transaction. This verification may be accomplished by (1) checking the System for Award Management (SAM) Exclusions maintained by the General Services Administration, (2) collecting a certification from the entity, or (3) adding a clause or condition to the covered transaction with that entity (2 CFR section 180.300).

Condition

Through our testing of 12 selections across 3 campuses (out of a population of 54 across all 3 campuses) for both procurement and suspension and debarment, we noted the following for 2 out of 3 transactions selected for testing at 1 campus:

- Missing original Source Selection & Price Reasonableness justification forms demonstrating appropriate procurement decisions and approval took place prior to the transactions, which are required at this campus for transactions greater than \$10,000.
- Management could not provide evidence that suspension and debarment checks were performed prior to purchase. We received evidence of the checks after the purchase.

Cause

Management indicated that the Source Selection & Price Reasonableness justification forms and the suspension and debarment checks were performed, however, they misplaced the original documentation.

Effect

The University may not follow appropriate procurement policies and procedures and may inappropriately do business with a vendor that is suspended or debarred if timely checks are not performed.

Questioned Costs

None noted.

Recommendation

We recommend that management reassess their document retention protocols and ensure controls are in place to ensure complete and accurate files, inclusive of timely suspension and debarment checks.

Management's Views and Corrective Action Plan

Management's response is included in "Management's Views and Corrective Action Plan" included at the end of this report after the summary schedule of status of prior audit findings.

University of California
Schedule of Findings and Questioned Costs
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2022-008 – Completeness and accuracy of certain COVID-19 programs on the Prior Year Schedule of Expenditures of Federal Awards (SEFA) - (Significant Deficiency)

Cluster: Not applicable

Sponsoring Agency: Department of Health and Human Services (HHS) - Health Resources and Services Administration (HRSA) and Department of Education

Award Names: COVID-19 Provider Relief Fund (PRF) and COVID-19 Higher Education Emergency Relief Fund (HEERF) Institutional Portion

Award Numbers: Not applicable and P425F202269

Assistance Listing Titles: COVID-19 Provider Relief Fund and American Rescue Plan (ARP) Rural Distribution and COVID-19 HEERF Institutional Portion

Assistance Listing Number: 93.498 and 84.425F

Award Year: 2020-2021 and 2020-2022

Pass-through entity: Not applicable

Criteria

2 CFR 200.510 *Financial statements* requires auditees to prepare a schedule of expenditures of Federal awards for the period covered by the auditee's financial statements which must include the total Federal awards expended as determined in accordance with 2 CFR 200.502. The information presented should be consistent with the accounting records and other federal guidance.

Condition

The following errors were identified in the University's 2021 SEFA:

- Management at the University Office of the President brought to our attention that in the prior year, the PRF Period 1 expenditures at 1 hospital that was part of a certain medical center with multiple portal submissions, was not included on the University's SEFA. This error totaled \$26,358,874 and represented 6% of total Period 1 PRF expenditures included on the SEFA and 0.4% of the University's total SEFA. Exclusion of this amount did not impact the major program determination in 2021 or our scoping of the PRF major program across the University as a whole. Management has included this amount on the 2022 SEFA.
- Through our discussions with management at a second campus, we identified 2 additional PRF portal submissions were excluded from the 2021 SEFA, as follows: Period 1 \$473,339 and Period 1 \$11,962. These submissions have also been included in the 2022 SEFA.
- Through our current year testing at a third campus, we noted that the 2021 HEERF institutional funds expended per management's analysis did not agree to the amount reported on the 2021 SEFA. The amount reported in the prior year was understated by \$1,296,498. This amount was not material to HEERF or to the 2021 SEFA as a whole. This amount has also been included in the 2022 SEFA.

Cause

The COVID-19 pandemic resulted in the receipt and expenditure of federal funds across certain University medical centers where there has previously been limited to no federal funding and a different nature of funding at certain of the campuses. The preparation of the SEFA requires information from each campus be provided to the University Office of the President for compilation, and the aggregation of the COVID-19 PRF funding was manual. In addition, there was limited knowledge of the federal funding at the medical centers and thus a reliance on the part of management that each campus was reporting complete and accurate information. A final reconciliation of all portal submissions compared to the amounts on the SEFA also failed to detect the missing PRF expenditures at this one medical center.

Additionally, regarding the HEERF missing amounts, the correct amount was communicated by the campus to the University Office of the President, however, this communication was overlooked by the preparer of the SEFA, since a manual adjustment was required.

University of California
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Effect

A SEFA that is not complete and accurate could impact the scoping of an entity's major programs and result in incomplete information being provided to the federal government.

Questioned Costs

None noted.

Recommendation

We recommend updates on atypical federal programs (e.g., HEERF and PRF) at each campus (including the medical centers) be periodically provided to the team at the University Office of the President that is responsible for the compilation of the SEFA. This will allow for a more comprehensive understanding of the campus grant activity for these programs and the ability to better review and assess the completeness and accuracy reported for these programs on the University's year-end SEFA, inclusive of these programs. One means by which this might be accomplished is to develop a checklist of anticipated awards by campus in advance of the year and also complete an interim SEFA to identify inconsistencies earlier in the fiscal year. We recommend the campuses review the interim SEFA for completeness and accuracy and provide a formal sign-off/approval to the University Office of the President. We also recommend formal review of the final year-end SEFA be evidenced by the Systemwide Controller or other appropriate personnel.

Management's Views and Corrective Action Plan

Management's response is included in "Management's Views and Corrective Action Plan" included at the end of this report after the summary schedule of status of prior audit findings.

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2021-001: IT General Controls for Retirement System (Significant Deficiency)

Condition

The University implemented Redwood, a retirement recordkeeping system in March 2019, which is used throughout the University, except Benioff Children's Hospital & Research Center Oakland. The University partners with a vendor to perform hosting of the system and certain IT controls responsibilities are outsourced to the vendor for the retirement system, including:

- Provisioning/revoking database level access including database administrator privileged access;
- Developing changes, testing changes, and migrating changes into production as well as ensuring separation of duties between developers and migrators, and
- Restricting access to the job scheduler used to run the new retirement system jobs.

While the University has processes over those IT activities within their control, the University relies on the vendor for the aforementioned execution of key IT general controls. In situations where significant operations are subject to third party oversight, service organizations will typically provide users with an AICPA Systems & Organization Controls audit report that specifically addresses the design and operating effectiveness of internal controls (SOC 1 Type 2 report).

In 2019, documentation could not be provided by the vendor to evidence the design, implementation, and operation of key IT controls. The result was the absence of key vendor IT controls over the making and migrating of changes; granting/revoking database level access and restricting access to the job scheduler which results in no IT controls over on the ongoing validity, completeness or accuracy of the data processed in the retirement system or in the reports generated from the retirement system.

In fiscal years 2020 and 2021, the University received SOC 1 Type 2 reports, however, management ultimately concluded the reports were insufficient in order to determine the effectiveness of key IT controls.

Additionally, as part of the 2021 sample testing of participant data records provided to the University's actuary, a data discrepancy was identified related to two of the benefit plan participants. After examining the identified discrepancies, management indicated subsets of retirees were not properly reflected in the final census data files that were submitted to their actuaries.

PwC Recommendation

It was recommended the University undertake actions to have the aforementioned IT general controls related to the retirement system designed and implemented appropriately, including maintaining the evidence of operating effectiveness of related controls.

In light of the errors identified and described above, it was also recommended the University evaluate and consider enhancing its processes surrounding the integrity of participant data records provided to the actuaries as part of the valuation over its retiree health and pension obligations.

Actions Taken

Please refer to our response to finding 2022-001 for an update on this matter as a whole, which is included in "Management's Views and Corrective Action Plan" at the end of this report after the summary schedule of status of prior audit findings.

University of California
Summary Schedule of Status of Prior Audit Findings
Year Ended June 30, 2022

2021-002 – Subrecipient Monitoring

Cluster: Research & Development

Sponsoring Agency: Various across 2 campuses

Award Name: Various across 2 campuses

Award Number: Various across 2 campuses

Assistance Listing Title: Various across 2 campuses

Assistance Listing Number: Various across 2 campuses

Award Year: 2020 – 2021

Pass-through entity: Various across 2 campuses

Condition

- Through PwC's testing of 25 subrecipients at one campus, one instance was noted where the subrecipient Uniform Guidance report reviewed had findings associated with an award passed-through from this University campus. When inquiring as to what follow-up procedures were performed, the campus noted that they do not perform follow-up procedures if the subrecipient has been identified as low-risk within the subrecipient's Uniform Guidance report. This is not consistent with requirements under the Uniform Guidance, which require follow-up and the issuance of a management decision when there are subrecipient findings pertaining to an award passed-through to another organization. This was an over-arching policy issue at the campus and thus additional reviews may have not been performed across the subrecipient population at this campus.
- Through PwC's testing of 25 subrecipients at a second campus, there was no evidence indicating when subrecipient Uniform Guidance reports were reviewed. PwC was able to obtain a checklist completed for each subrecipient by management, however:
 - The checklists were not dated and thus it was unclear when the checklists were completed.
 - The checklists noted the Uniform Guidance report of the subrecipient was reviewed, but it was unclear which fiscal year report management reviewed.
 - There was no documentation on the checklists as to whether there were findings or issues noted through review of the subrecipient Uniform Guidance report that need further consideration or documentation.

PwC Recommendation

PwC recommended the first campus reassess its subrecipient monitoring policy to ensure that any Uniform Guidance reports with relevant subrecipient findings have appropriate follow-up procedures performed. PwC recommended the second campus enhance its subrecipient monitoring checklist to explicitly include a date the checklist was prepared and reviewed and that additional detail be added to document the nature of the information in the Uniform Guidance report that was reviewed (e.g., type of opinion, any applicable findings, follow-up action taken, etc.).

Actions Taken

The campuses impacted took the following action:

- Campus 1: Policy and procedure was updated in August 2022 to require a management review and response for any subrecipient with a Single Audit finding (regardless of the University's independent assessment of the subrecipient's risk) prior to execution of the agreement and throughout the life of the subaward. At that time, audit reports were also reviewed for active subawardees; management decision and action taken were documented in the respective subrecipient's file. Additionally, staff were trained internally on policy and procedure enhancements and also attended external training on federal subrecipient monitoring requirements. Given the timing of the University's FY21 Single Audit and management's corrective action plan, this finding remained open throughout 2022.
- Campus 2: As of July 2022, the Risk Assessment Questionnaire was enhanced to explicitly state the date of review, the period of review and details for the information that was reviewed, the outcome of the review, and any follow-up or actions taken. Additionally, the Risk

University of California
Summary Schedule of Status of Prior Audit Findings
Year Ended June 30, 2022

Assessment Questionnaire includes a section for assessing risk and documenting decisions for entity's note subject to the Single Audit. The Risk Assessment Questionnaire will be required for new and continuing subawards. Given the timing of the University's FY21 Single Audit and management's corrective action plan, this issue remained open throughout 2022.

2021-003 – Suspension and Debarment

Cluster: Research & Development

Sponsoring Agency: Various across 3 campuses

Award Name: Various across 3 campuses

Award Number: Various across 3 campuses

Assistance Listing Title: Various across 3 campuses

Assistance Listing Number: Various across 3 campuses

Award Year: 2020 – 2021

Pass-through entity: Various across 3 campuses

Condition

- When testing of 25 transactions greater than \$10,000 at one campus, PwC noted 9 instances where a suspension and debarment check was not performed prior to payment of the vendor. On average, these checks were 330 days after the payment date.
- Through PwC's testing at a second campus, it was noted that campus policy required SAM.gov support be attached as part of the purchasing package. However, if the vendor cannot be located on SAM.gov, the UCOP Debarment/Anti-Lobby form would be sent to the vendor to certify that the vendor was not suspended or debarred. For 2 out of 25 selections, the Purchasing department was unable to provide either form of support.
- Through PwC's testing at a third campus, there is a policy that a SAM.gov check be attached to each purchase order. Through PwC's testing of 25 selections, 11 instances were noted where the SAM.gov check was performed after the execution of the purchase order and 8 instances where no SAM.gov support could be provided.

PwC Recommendation

PwC recommend the affected campuses review their policies and procedures specific to suspension and debarment checks and provide training to personnel. To the extent a third-party servicer is used for suspension and debarment purposes, it was recommended that the role of that servicer should be understood by all personnel, including when it can and cannot be relied upon.

Actions Taken

The campuses impacted took the following action:

- Campus 1: Staff in Purchasing Services were retrained in September 2022 on documentation requirements for purchases to federal funds. Standard operating procedures were also developed at this time that outline the steps required to verify debarment. SAM.gov* will continue to be the preferred method for checking Debarment Verification. If the supplier is not listed on SAM.gov, Purchasing Staff will then issue the Debarment Certification to the supplier to complete prior to the posting of the purchase order. In our new eProcurement System, we will recommend building workflow for federal funded transactions greater than \$10,000 and require Procurement Manager review to ensure one of the two sources of support are attached to the purchase order. Given the timing of the University's FY21 Single Audit and management's corrective action plan, this finding remained open throughout 2022.
- Campus 2: Reviews with Procurement and Contracting Services were conducted on documentation requirements for transactions on federal funds, and standard operating procedures were developed in March 2022 prior to the training to document the steps required to verify debarment. Additionally, a review with Supplier Services Staff was conducted in October 2021 regarding Visual Compliance and pre-screening of foreign suppliers.

University of California
Summary Schedule of Status of Prior Audit Findings
Year Ended June 30, 2022

Management conducted a sample audit of purchases in February 2023 and concluded that training efforts did not sufficiently reduce the error rate. Effective April 2023, management will implement a regular review process to sample purchase documentation, evaluate compliance, and take corrective action as needed. Given the timing of the University's FY21 Single Audit and management's corrective action plan, this finding remained open throughout 2022.

- Campus 3: In August 2022, training was conducted for all buyers covering the requirements for purchases on federal funds. The training was recorded, and links made available on the Procurement website and published in the Procurement Newsletter for ongoing education. Additionally, refresher training was provided to Procurement Services in August 2022 on the Uniform Guidance requirements and institutional procedure. Last, in September 2022, the KFS system was modified to include a flag anytime a requisition is submitted on Federal funds for over \$10,000. For these requisitions, a minimum of three comparison quotes must be secured and documented, and the conflict of interest section VIII of the Source Selection Justification Form must be completed, signed, and attached. Given the timing of the University's FY21 Single Audit and management's corrective action plan, this finding remained open throughout 2022.

2021-004 – Cash management

Cluster: Research and Development

Sponsoring Agency: Various across 1 campus

Award Name: Various across 1 campus

Award Number: Various across 1 campus

Assistance Listing Title: Various across 1 campus

Assistance Listing Number: Various across 1 campus

Award Year: Various across 1 campus

Pass-through entity: Various across 1 campus

Condition

In testing compliance with the cash management compliance requirement in accordance with the OMB Compliance Supplement, specifically the reimbursement method, 25 individual expenditures at 1 campus (100 collectively across 4 campuses) were tested to compare the date the University paid the vendor to the date the University requested sponsor reimbursement. PwC noted 6 out of 25 instances at one campus in which reimbursement was requested from the sponsor before the University paid the vendor.

PwC Recommendation

PwC recommended that the University revisit existing internal control procedures to ensure expenditures are paid in compliance with Federal reimbursement requirements.

Actions Taken

Management maintains that the campus has internal control procedures to ensure expenditures are paid in compliance with Federal reimbursement requirements. The campus is in compliance with 2 CFR Part 200.305 (b), which requires non-Federal entities to use reimbursement methods that "...minimize the time elapsing between the transfer of funds from the United States Treasury or the pass-through entity and the disbursement by the non-Federal entity...".

The finding "2021-004-Cash Management" is based on the result of testing for Audit Objective #4 in Part 3, Section C. Cash Management in the Office of Management and Budget (OMB) Compliance Supplement issued July 2021. "For grants and cooperative agreements to non-federal entities that are paid on a reimbursement basis, supporting documentation shows that the costs for which reimbursement was requested were paid prior to the date of the reimbursement request." However, 2

University of California
Summary Schedule of Status of Prior Audit Findings
Year Ended June 30, 2022

CFR Part 200.305 Federal Payment does not require that costs be paid prior to the date of the reimbursement request.

The campus indicates in its Federal Financial Reports (FFR) that it reports expenditures on an accrual basis of accounting. Requesting reimbursement for the costs incurred and recorded in the Financial System on an accrual basis is compliant with the requirements stated in 2 CFR Part 200.305 Federal Payment regardless of whether the costs were actually paid. The definition of "Expenditures" provided in 2 CFR Part 200.1 Definitions further supports this. "Expenditures" on an accrual basis include "the net increase or decrease in the amounts owed by the non-Federal entity for: Goods and other property received; and services performed by employees, contractors, subrecipients, and other payees."

In October 2017, on behalf of the 190 members of the Council on Governmental Relations (COGR), COGR wrote a letter to the OMB Office of Federal Financial Management requesting that the Compliance Supplement be amended, followed by an update to 2 CFR Part 200.305, to address policy inconsistencies between Part 3, Section C. Cash Management and Section 200.305 Federal Payment. This request has not been addressed to date.

The finding "2021-004-Cash Management" is the result of policy inconsistencies as referenced in COGR's letter. Management agrees with COGR's position and believes that 2CFR Part 200 takes precedence over the Compliance Supplement. Adhering to the language in the Compliance Supplement will require changes to current existing systems and business processes that are adequately designed to be compliant with 2 CFR Part 200 and are working effectively. These changes will result in unnecessary costs and administrative burden.

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MANAGEMENT'S VIEWS 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, 2022

2022-001 – IT General Controls for Retirement System (Significant Deficiency)

The University obtained the SOC 1 Type 2 report from the vendor for the period July 1, 2021, through June 30, 2022; developing, testing, and migrating changes into production were tested within the report with no exceptions. However, the University determined the report does not include testing on granting/revoking database level access and restricting access to the job scheduler. The University has continued to perform compensating controls to mitigate the risks associated with the vendor hosting of the system. Controls and processes are in place to review data level access and database administrator privileges to the system. New controls are underway to review the production data fix updates. The vendor has committed to provide a third party SOC 2 Type 2 audit report for security, confidentiality, and availability of the Redwood System by September 2023.

The University also evaluated options for resolving the issues related to the vendor hosting of the system and has determined that transitioning hosting to University-controlled servers is the best alternative. A plan for the transition has been developed and execution of the plan is underway and scheduled to be completed by December 2023.

For inquiries regarding this finding, please contact Cheryl Lloyd at (510) 987-9289 who is responsible for the corrective action.

2022-002 – Reporting into the Common Origination and Disbursement (COD) System

Cluster: Student Financial Assistance

Sponsoring Agency: Department of Education

Award Names: Federal Pell Grant Program and Federal Direct Student Loans

Award Numbers: Not applicable

Assistance Listing Titles: Federal Pell Grant Program and Federal Direct Student Loans

Assistance Listing Numbers: 84.063 and 84.268

Award Year: 2021-2022

Pass-through entity: Not applicable

Management provides robust, on-going training related to disbursement and federal reporting timeframes. Most recently, the COD reporting requirements were reviewed in the monthly Office of Financial Aid and Scholarships management meeting, inclusive of managers within each unit of the office and IT. The student records outside of the normal parameters identified challenges within our current SIS system and staffing limitations. The student information system in place is aging and lacks flexible controls.

The Office of Financial Aid and Scholarships is migrating to a new student information system (Oracle SFP) for the 2024-25 academic year. We are reengineering our disbursement process to maximize the enhanced controls and automation within Oracle SFP to ensure compliance with disbursement and federal reporting timeframes. Until a more robust system is in place, management will develop exception reports to identify discrepancies in FAME versus COD disbursement dates beginning with the 2023 summer term. Exception

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June 30, 2022

reports will be reviewed bi-weekly to ensure compliance with the required reporting timeline. Additionally, management continues to request additional full-time professional staff to support the administration of federal student aid and ensure regulatory compliance in all areas as federal, state and institutional aid programs continue to expand and evolve.

For inquiries regarding this finding, please contact Rebecca Sanchez at (949) 824-8262 who is responsible for the corrective action.

2022-003 – Return of Title IV Funds

Cluster: Student Financial Assistance

Sponsoring Agency: Department of Education

Award Names: Federal Supplemental Educational Opportunity Grants (FSEOG), Federal Pell Grant Program and Federal Direct Student Loans

Award Numbers: Not applicable

Assistance Listing Titles: Federal Supplemental Educational Opportunity Grants (FSEOG), Federal Pell Grant Program and Federal Direct Student Loans

Assistance Listing Numbers: 84.007, 84.063 and 84.268

Award Year: 2021-2022

Pass-through entity: Not applicable

Campus 1

Management provides robust, on-going training related to the Return of Title IV Funds. The Office of Financial Aid and Scholarships staffing levels have not sufficiently adjusted as student aid programs grow in size and complexity. Management is in the process of hiring additional staff and will continue to request additional full-time staff in our annual budget proposals. As additional federal and state financial aid programs are developed, there are simply not enough staff to complete all work required each week.

Beginning fiscal year 2024, R2T4 reports will be reviewed in weekly team meetings and prioritized for processing to ensure compliance with regulatory timeframes. Long-term, the Office of Financial Aid and Scholarships is migrating to a new student information system (Oracle SFP) for the 2024-25 academic year. Enhanced controls and automation within Oracle SFP will ensure compliance with Return of Title IV Funds regulatory timeframes. The new student information system will increase efficiency and effectiveness by eliminating previous manual processes.

Campus 2

As of October 2022, all disbursements are reported immediately, rather than the previous weekly cadence. Weekly review procedures are, and will be, a continued process to identify discrepancies and reconcile within 30 days. As an effort to address staff changes and the change in disbursement reporting, additional training was provided to staff in October of 2022.

For inquiries regarding this finding, please contact Rebecca Sanchez at (949) 824-8262 and Trina Wilson at (530) 752-9278 who are responsible for the corrective action.

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2022-004 – Enrollment Reporting

Cluster: Student Financial Assistance

Sponsoring Agency: Department of Education

Award Names: Federal Pell Grant Program and Federal Direct Student Loans

Award Numbers: Not applicable

Assistance Listing Titles: Federal Pell Grant Program and Federal Direct Student Loans

Assistance Listing Numbers: 84.063 and 84.268

Award Year: 2021-2022

Pass-through entity: Not applicable

Campus 1

The mismatch between the enrollment effective dates on the campus-level and program-level reports identified by PwC auditors occurred due to a bug in the Campus Solutions system during the calculation of enrollment status change dates. The campus-level status date was sometimes incorrectly set as blank, which was then set to the term start date by NSLDS import process.

As of September 14, 2022, the Office of the Registrar has modified the program that creates the NSLDS data file to correct the blank status dates, removing the mismatches that were found by PwC auditors.

This ensures that the campus-level and program-level effective dates match.

Campus 2

Historically, reporting to the National Student Clearinghouse (the “Clearinghouse”) of students’ enrollment status, e.g., full-time status, has been accomplished via enrollment files. These files are submitted at least every 30 days to ensure changes in enrollment status, especially withdrawals, are captured in a timely manner. To update enrollment status to graduated, two other processes have been relied upon:

- The first process uses Graduates Only files. Relying on the Clearinghouse’s advice, Graduates Only files are submitted for spring quarter only.
- The second process is the degree file submissions to support third-party verification of students’ degrees through the Clearinghouse. When a degree file is submitted, the enrollment status should be updated to graduated.

The issue exists with the second process where, for a variety of reasons, the Clearinghouse process does not successfully update every enrollment record with a graduated status when the degree file is submitted. These problems typically occur when students have been in more than one Clearinghouse branch, such as medical students in more than one degree program, students receiving their degree in a quarter in which they were not registered, and students who do not have a SSN.

The campus began to recognize these problems in the summer of 2022 and had already decided to utilize a feature available in the quarterly Clearinghouse enrollment reporting to send a graduated status, rather than full-time status, whenever a student has graduated. This change, which is scheduled to be implemented in March 2023, will resolve most of the issues in which students may not have been reported to NSLDS as graduated.

Effective immediately, error reports will be methodically checked and resolved after degree files are submitted to the Clearinghouse to ensure that enrollment records are updated for every student. By adjusting and coordinating the timing and sequencing of file submissions, the number of “false” errors will be greatly reduced, and the error resolution process will be manageable. The resequencing of files submission will begin with the Spring 2023 semester. These two steps, in addition to the continuation of enrollment and degree reporting, should eliminate cases of students not being reported to NSLDS as graduated.

For inquiries regarding this finding, please contact Cruz Grimaldo (510) 316-2932 and Jerry Lopez at (415) 476-4181 who are responsible for the corrective action.

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2022-005 – HEERF Institutional portion unallowable costs

Cluster: Not applicable

Sponsoring Agency: Department of Education

Award Names: COVID-19 Higher Education Emergency Relief Fund (HEERF) II and III Institutional Portions

Award Numbers: P425F202269 and P425F201852 - 20A

Assistance Listing Title: COVID-19 HEERF Institutional Portion

Assistance Listing Number: 84.425F

Award Year: 2020-2022

Pass-through entity: Not applicable

Campus 1

Questioned costs will be reversed by March 31, 2023. Currently, no scholarship expenditures have been incurred in fiscal year 2023 from HEERF institutional funds, and a final review of expenditures made from HEERF institutional funds will be completed by the end of fiscal year 2023.

Campus 2

The affected campus acknowledges and agrees with the finding. The campus will develop and implement a formal review of the eligibility analysis that includes upfront documentation of the calculation of amounts to be charged on the award.

In 2022, the \$1,345,330 real estate revenue loss transaction was reversed, triggering the necessary refund in the draw system, to be performed consistent with institutional policy and procedure for refunds to federal sponsors. In January 2023, the HEERF quarterly reporting was updated to reflect this, posted to the campus HEERF Reporting website, and emailed to the Department of Education. Separately, campus immediately worked to determine if the funds could be used for other allowable purposes. As of February 2023, all of the amount previously returned has been re-purposed, fully documented to ensure allowable use of HEERF institutional funding including CFO review and approval, and re-drawn in the federal draw system.

In regards to the fringe benefit rate that was not supported, by June 2023, the campus will work with the affected department and the campus recharge rate review committee to document the fringe rate calculation and approval to substantiate allowable costs included on the award.

For inquiries regarding this finding, please contact Bobbi McCracken at (951) 827-3303 and Nickolaus Lekovish (858) 534-0660 who are responsible for the corrective action.

2022-006 – Quarterly HEERF Reporting

Cluster: Not applicable

Sponsoring Agency: Department of Education

Award Names: COVID-19 Higher Education Emergency Relief Fund (HEERF) Student Portion and COVID-19 HEERF Supplemental Assistance to Institutions of Higher Education (SAIHE) Program

Award Numbers: P425F202269 and P425S210019

Assistance Listing Titles: COVID-19 HEERF Student Portion and COVID-19 HEERF SAIHE Program

Assistance Listing Number: 84.425E and 84.425S

Award Year: 2020-2022

Pass-through entity: Not applicable

The campus received an allocation under 84.425S funding and elected to split the allocation, 50% for institutional purpose and 50% for student emergency grants. Since 50% was allocated as student emergency grants, expenditures were reported under the student emergency grants section (84.425E) incorrectly. Per recommendations, the University will amend the June 30, 2022, report and will ensure that these expenditures are not reported under section 84.425E of future HEERF quarterly and annual reports. This

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June 30, 2022

amendment will be processed no later than March 15, 2023. Additionally, campus will review all previous reports and amend as necessary with a target completion date in April 2023.

For inquiries regarding this finding, please contact Cruz Grimaldo (510) 316-2932 who is responsible for the corrective action.

2022-007 – HEERF Procurement, Suspension and Debarment

Cluster: Not applicable

Sponsoring Agency: Department of Education

Award Names: COVID-19 Higher Education Emergency Relief Fund (HEERF) Institutional Portion

Award Numbers: P425F202269

Assistance Listing Title: COVID-19 HEERF Institutional Portion

Assistance Listing Number: 84.425F

Award Year: 2020-2022

Pass-through entity: Not applicable

The Chief Procurement Officer (CPO) has recommunicated the requirements to verify suspension and debarment status from SAM.gov and Descartes Visual Compliance at the September 2022 staff meeting. A comprehensive review of the Federal Funds Checklist and related documentation will be covered at the April 2023 staff meeting. Specifically, staff will be reminded to perform these compliance checks at the time of the order when funded by federal funds as well as the required document retention protocols (i.e., all required documents will be attached to the purchase order). Procurement staff will annually acknowledge the requirement. The CPO will monitor compliance annually by performing random spot checks of federally-funded orders issued during the previous 12 months. The spot checks will take place in September each year.

For inquiries regarding this finding, please contact Cruz Grimaldo (510) 316-2932 who is responsible for the corrective action.

2022-008 – Completeness and accuracy of certain COVID-19 programs on the Prior Year Schedule of Expenditures of Federal Awards (SEFA) - (Significant Deficiency)

Cluster: Not applicable

Sponsoring Agency: Department of Health and Human Services (HHS) - Health Resources and Services Administration (HRSA) and Department of Education

Award Names: COVID-19 Provider Relief Fund (PRF) and COVID-19 Higher Education Emergency Relief Fund (HEERF) Institutional Portion

Award Numbers: Not applicable and P425F202269

Assistance Listing Titles: COVID-19 Provider Relief Fund and American Rescue Plan (ARP) Rural Distribution and COVID-19 HEERF Institutional Portion

Assistance Listing Number: 93.498 and 84.425F

Award Year: 2020-2021 and 2020-2022

Pass-through entity: Not applicable

Management agrees that additional controls should be implemented to ensure the accuracy and completeness of the SEFA.

As a result of the prior year omissions discovered during the current year SEFA preparation and Single Audit, the University performed a reconciliation (prior to issuance of the audit report) of the PRF payments reflected in the HRSA reporting portal systemwide. The reconciliation did not identify any misstatements other than those described in the finding. The University of California Office of the President (UCOP) will work with campuses to fully reconcile PRF for the fiscal year 2023. Also beginning in 2023, campuses and medical centers will be assigned responsibility for reviewing and signing off on their respective final SEFAs, inclusive

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of HEERF, PRF, and any other atypical federal programs that are not captured in the campuses' financial system (e.g., those for which there is not expense recognition in a federal fund). The Systemwide Controller will also be included in the review process and signoff on the final SEFA reports.

Beginning in FY 2024, the University will implement more comprehensive financial reporting controls as follows:

- Interim SEFA reports, inclusive of atypical programs, will be prepared centrally and distributed to campuses for review and alignment with campus records. Campus management will be tasked with the responsibility for overall review and signoff for both interim and final SEFA reports.
- The Systemwide Controller will also be included in the review process by performing an overall review and signoff for the final SEFA report.

For inquiries regarding this finding, please contact Barbara Cevallos at (510) 987-0013 who is responsible for the corrective action.

DocuSigned by:


Barbara B. Cevallos

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