# **University of Michigan**

Report on Federal Awards in Accordance with the Uniform Guidance For the Year Ended June 30, 2021 EIN 38-6006309

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# **Report of Independent Auditors**

To the Regents of the University of Michigan

# **Report on the Financial Statements**

We have audited the accompanying financial statements of the business-type activities and aggregate fiduciary activities of the University of Michigan (the "University"), which comprise the statements of net position and of fiduciary net position as of June 30, 2021 and 2020, and the related statements of revenues, expenses and changes in net position, of cash flows, and of changes in fiduciary net position for the years then ended, and the related notes to the financial statements, which collectively comprise the University's basic financial statements.

# Management's Responsibility for the Financial Statements

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

# Auditors' Responsibility

Our responsibility is to express opinions on the financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

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

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# **Opinions**

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities and aggregate fiduciary activities of the University of Michigan as of June 30, 2021 and 2020, 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.

# **Emphasis of Matter**

As discussed in Note 1 to the financial statements, the University changed the manner in which it accounts for fiduciary activities in 2021. Our opinion is not modified with respect to this matter.

# **Other Matters**

# Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on pages 4 through 30 and the supplementary information for pension plan and postemployment benefits on pages 83 through 85 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the *Governmental Accounting Standards Board* who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

# Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that comprise the University's basic financial statements. The accompanying schedule of expenditures of federal awards for the year ended June 30, 2021 is 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 is not a required part of the financial statements. The accompanying schedule of expenditures of federal awards is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. Such information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the 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 schedule of expenditures of federal awards is fairly stated, in all material respects, 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 October 21, 2021 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, 2021. 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.

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October 21, 2021

#### Management's Discussion and Analysis (Unaudited)

#### Introduction

The following discussion and analysis provides an overview of the financial position of the University of Michigan (the "University") at June 30, 2021 and 2020 and its activities for the three fiscal years ended June 30, 2021. This discussion has been prepared by management and should be read in conjunction with the financial statements and the notes thereto, which follow this section.

The University is a comprehensive public institution of higher learning with over 63,500 students and approximately 8,500 faculty members on three campuses in southeast Michigan. The University offers a diverse range of degree programs from baccalaureate to post-doctoral levels through 19 schools and colleges, and contributes to the state and nation through related research and public service programs. The University also has a nationally renowned health system which includes the University of Michigan Health System ("UMHS"), the University's Medical School, Michigan Health Corporation (a wholly-owned corporation created for joint venture and managed care initiatives) and UM Health (a wholly-owned corporation created to hold and develop the University's statewide network of hospitals, hospital joint ventures and other hospital affiliations, primarily consisting of Metropolitan Hospital). The University's health system currently includes four hospitals as well as numerous health centers and outpatient clinics.

The University consistently ranks among the nation's top universities by various measures of quality, both in general academic terms and in terms of strength of offerings, in specific academic disciplines and professional subjects. Research is central to the University's mission and a key aspect of its strong reputation among educational institutions. The University is widely recognized for the breadth and excellence of its research enterprise as well as for the exceptional level of cooperation across disciplines, which allows faculty and students to address the full complexity of real-world challenges. The University's health system also has a tradition of excellence in teaching, advancement of medical science and patient care, consistently ranking among the best health care systems in the nation.

The global outbreak of COVID-19, a respiratory disease caused by a new strain of coronavirus, was declared a pandemic by the World Health Organization on March 11, 2020 and a national emergency by the President of the United States on March 13, 2020. The outbreak and related actions taken by federal and state governments in response have impacted several aspects of the University's mission, including those related to instruction, research, patient care and other auxiliary activities.

#### Management's Discussion and Analysis (Unaudited)—Continued

#### **Financial Highlights**

The University's financial position remains strong, with total assets and deferred outflows of \$30.2 billion and total liabilities and deferred inflows of \$10.7 billion at June 30, 2021, compared to total assets and deferred outflows of \$24.0 billion and total liabilities and deferred inflows of \$9.5 billion at June 30, 2020. Net position, which represents the residual interest in the University's total assets and deferred outflows after total liabilities and deferred inflows are deducted, totaled \$19.5 billion and \$14.5 billion at June 30, 2021 and 2020, respectively. Changes in net position represent the University's results of operations and are summarized for the years ended June 30 as follows:

	2021	2020	2019
		(in millions)	
Operating revenues and educational appropriations	\$ 8,831	\$ 8,340	\$ 8,411
Federal economic relief funds	256	144	
Private gifts for operating activities	184	179	178
Operating and net interest expenses	(9,608)	(9,445)	(9,099)
	(337)	(782)	(510)
Net investment income	5,141	323	810
Endowment, capital gifts and grants, and other	176	182	223
Increase (decrease) in net position	\$ 4,980	\$ (277)	\$ 523

The results of operations reflect the University's emphasis on maintaining its national standards in academics, research and health care, within a competitive recruitment environment for faculty and health care professionals and a period of constrained state appropriations and rising health care, regulatory and facility costs. During 2021 and 2020, the University also faced significant challenges associated with the COVID-19 pandemic, which impacted a broad range of its activities. The University is addressing these risks through aggressive cost cutting and productivity gains designed to help preserve access to affordable higher education and healthcare for Michigan families. To achieve sustainable long-term goals for cost cutting and productivity gains, the University is also strategically utilizing resources to support enterprise-wide information technology projects and other initiatives.

The University's long-term investment strategy combined with its endowment spending policy serves to insulate operations from expected volatility in the capital markets and provides for a stable and predictable level of spending distributions from the endowment. The success of the University's long-term investment strategy is evidenced by strong returns over sustained periods of time and the ability to limit losses in the face of challenging markets.

#### Management's Discussion and Analysis (Unaudited)—Continued

The University invests its financial assets in pools with distinct risk and liquidity characteristics based on its needs, with a majority of its financial assets invested in two such pools. The University's working capital is primarily invested in relatively short duration, liquid assets, through its Daily and Monthly Portfolios, while the endowment is primarily invested, along with the noncurrent portion of insurance and benefit reserves, in an equity oriented long-term strategy through its Long Term Portfolio.

#### **Using the Basic Financial Statements**

The University's financial report includes: the Consolidated Statement of Net Position; the Consolidated Statement of Revenues, Expenses and Changes in Net Position; the Consolidated Statement of Cash Flows; the Statement of Fiduciary Net Position; and the Statement of Changes in Fiduciary Net Position. These basic financial statements are prepared in accordance with Governmental Accounting Standards Board ("GASB") principles, which establish standards for external financial reporting for public colleges and universities. The University's business-type activities are reported in the consolidated financial statements, while its fiduciary activities are reported in the fiduciary financial statements.

# Management's Discussion and Analysis (Unaudited)—Continued

#### **Consolidated Statement of Net Position**

The consolidated statement of net position presents the financial position of the University at the end of the fiscal year and includes all assets, deferred outflows, liabilities and deferred inflows of the University. The difference between total assets and deferred outflows as compared to total liabilities and deferred inflows – net position – is one indicator of the current financial condition of the University, while the change in net position is an indication of whether the overall financial condition has improved or worsened during the year. The University's assets, deferred outflows, liabilities, deferred inflows and net position at June 30 are summarized as follows:

	2021	<b>2020</b> (in millions)	2019
Current assets Noncurrent assets:	\$ 4,898	\$ 4,010	\$ 2,885
Endowment, life income and other investments	17,533	12,704	12,660
Capital assets, net Other	6,187 445	6,273 518	6,227 500
Total assets	29,063	23,505	22,272
Deferred outflows	1,124	514	371
Current liabilities	2,538	2,374	1,708
Noncurrent liabilities	7,688	6,647	5,611
Total liabilities	10,226	9,021	7,319
Deferred inflows	454	471	520
Net position	\$ 19,507	\$ 14,527	\$ 14,804

During 2021, the University adopted GASB Statement No. 84, *Fiduciary Activities* ("GASB 84"), which required the removal of fiduciary activities from the University's consolidated financial statements at July 1, 2019, resulting in a decrease in current assets and current liabilities of \$46 million, and a decrease in endowment, life income and other investments and noncurrent liabilities of \$174 million as compared to amounts previously reported. As a result of the adoption of this statement, the University's fiduciary activities are now presented within the statement of fiduciary net position and the statement of changes in fiduciary net position.

For purposes of management's discussion and analysis, comparative data for the consolidated statement of net position has been provided by reflecting the adoption of GASB 84 at June 30, 2019.

# Management's Discussion and Analysis (Unaudited)—Continued

The University continues to maintain and protect its strong financial foundation. This financial health, as reflected in the University's net position, results from the prudent utilization of financial resources including careful cost controls, preservation of endowment funds, conservative utilization of debt and adherence to a long-range capital plan for the maintenance and replacement of the physical plant.

Current assets consist primarily of cash and cash equivalents, operating and capital investments and accounts receivable and increased \$888 million to \$4.9 billion at June 30, 2021, as compared to \$4.0 billion at June 30, 2020, primarily as a result of the University's continued focus on liquidity in response to uncertainties surrounding the COVID-19 pandemic, as well as increased patient care receivables. Cash, cash equivalents and investments for operating activities totaled \$2.9 billion at June 30, 2021, which represents approximately four months of total expenses excluding depreciation.

Deferred outflows represent the consumption of net assets attributable to a future period and are primarily associated with the University's obligations for postemployment benefits, debt and derivative activity, and the defined benefit pension plan for Metropolitan Hospital. Deferred outflows totaled \$1.1 billion and \$514 million at June 30, 2021 and 2020, respectively.

Current liabilities consist primarily of accounts payable, accrued compensation, unearned revenue, commercial paper, the current portion of bonds payable and net long-term bonds payable subject to remarketing. Current liabilities totaled \$2.5 billion and \$2.4 billion at June 30, 2021 and 2020, respectively.

Deferred inflows represent the acquisition of net assets attributable to a future period and are associated with the University's obligations for postemployment benefits, Metropolitan Hospital's defined benefit pension plan and irrevocable split-interest agreements. Deferred inflows totaled \$454 million and \$471 million at June 30, 2021 and 2020, respectively.

#### Management's Discussion and Analysis (Unaudited)—Continued

#### **Endowment, Life Income and Other Investments**

The composition of the University's endowment, life income and other investments at June 30 is summarized as follows:

	2021	<b>2020</b> (in millions)	2019
Endowment investments Life income investments Noncurrent portion of insurance and benefits	\$ 17,023 191	\$ 12,313 145	\$ 12,275 147
obligations investments Other	293	225	216 22
Oulei	<u>26</u> \$ 17,533	21 \$ 12,704	\$ 12,660

The University's endowment funds consist of both permanent endowments and funds functioning as endowment. Permanent endowments are those funds received from donors with the stipulation that the principal remain intact and be invested in perpetuity to produce income that is to be expended for the purposes specified by the donors. Funds functioning as endowment consist of restricted gifts or unrestricted funds that have been allocated by the University for long-term investment purposes, but are not limited by donor stipulations requiring the University to preserve principal in perpetuity. Programs supported by endowment funds include scholarships, fellowships, professorships, research efforts and other important programs and activities.

The University uses its endowment funds to support operations in a way that strikes a balance between generating a predictable stream of annual support for current needs and preserving the purchasing power of the endowment funds for future periods. A majority of the endowment is maintained in the University Endowment Fund, a unitized pool which represents a collection of over 12,000 separate (individual) funds, the majority of which are restricted for specific purposes. The University Endowment Fund is invested in the University's Long Term Portfolio, a single diversified investment pool.

The endowment spending rule provides for distributions from the University Endowment Fund to the entities that benefit from the endowment fund. The annual distribution rate is 4.5 percent of the one-quarter lagged seven year moving average fair value of University Endowment Fund shares. This spending rule is one element of an ongoing financial management strategy that has allowed the University to effectively weather the uncertainties of challenging economic environments.

# Management's Discussion and Analysis (Unaudited)—Continued

To protect endowment principal in the event of a prolonged market downturn, distributions are limited to 5.3 percent of the current fair value of fund shares. Capital gains or income generated above the endowment spending rate are reinvested so that in lean times funds will be available for distribution. In addition, departments may also use withdrawals from funds functioning as endowment to support capital expenditures and operations.

Endowment spending rate distributions totaled \$404 million, \$384 million and \$361 million and withdrawals from funds functioning as endowment totaled \$4 million, \$7 million and \$38 million in 2021, 2020 and 2019, respectively. Total spending rate distributions combined with withdrawals from funds functioning as endowment averaged 3.8 percent, 4.3 percent and 4.5 percent of the current year average fair value of the University Endowment Fund for 2021, 2020 and 2019, respectively. Over the past ten years, total spending rate distributions combined with withdrawals from funds functioning as endowment averaged 4.6 percent.

The University participates in certain split-interest agreements and currently holds life income funds for beneficiaries of the pooled income fund, charitable remainder trusts and the gift annuity program. These funds generally pay lifetime income to beneficiaries, after which the principal is made available to the University in accordance with donor intentions.

# **Capital and Debt Activities**

One of the critical factors in continuing the quality of the University's academic, research and clinical programs is the development and renewal of capital assets. The University continues to implement its long-range plan to maintain and modernize its existing infrastructure and strategically invest in new construction.

Capital asset additions totaled \$488 million in 2021 as compared to \$618 million in 2020. Capital asset additions primarily represent renovation and new construction of academic, research and clinical facilities, as well as significant investments in equipment, including information technology. Current year capital asset additions were primarily funded with net position and gifts designated for capital purposes of \$427 million, as well as debt proceeds of \$29 million and state capital appropriations of \$32 million.

Projects completed in 2021 include significant new construction and renovation of academic and research facilities.

The new Ford Motor Company Robotics Building brings all parts of the Michigan Robotics enterprise together in one complex. This 134,000 square foot state-of-the-art facility houses classrooms, makerspaces, research and testing laboratories, associated support functions and offices. The building also provides space for its corporate partner, Ford Motor Company,

# Management's Discussion and Analysis (Unaudited)—Continued

to perform robotics research and engineering activities in collaboration with the University and other industry leaders, and has specialized labs for robot walking, flight testing, rehabilitation robotics, and electronics and software development.

The Edward Henry Kraus Building, which was originally completed in 1915, underwent an extensive renovation of 183,000 square feet as well as construction of an infill addition of 62,000 square feet within the exterior courtyard. This renovation and addition enables the School of Kinesiology to consolidate its programs and operations into one location and allows for future growth.

Laboratory renovations at two of the North Campus Research Complex buildings, which cover 158,000 square feet, will accommodate growth of the Medical School's wet laboratory research over the next decade. A 6,900 square foot infill addition improves connectivity between the buildings and throughout the complex. The project also addressed deferred maintenance including heating, ventilation, air conditioning, electrical and life safety system upgrades, and provided accessibility improvements and new finishes in public spaces.

Renovation and expansion of the Engineering Lab Building on the University's Dearborn campus, which was originally constructed in 1959, facilitates entrepreneurial problem solving, encourages multidisciplinary cooperation in the context of 21st-century engineering instruction, and provides students with new collaboration and project spaces. It also allows for research partnerships with industry, as well as expanded K-12 and community outreach efforts, with a focus on women and minorities. The 123,000 square feet facility includes classrooms, research and teaching laboratories, faculty offices and student support spaces. Replacement of regional boilers and electrical distribution equipment were also part of this project.

Expansion of the William R. Murchie Science Building on the University's Flint campus addresses immediate space limitations, and supports growing demand for instructional, research, and collaborative spaces for the science, technology, engineering and math disciplines, and create engineering-specific instructional and research laboratories. The project added 61,000 square feet and a third wing to the current Murchie building structure.

Construction in progress, which totaled \$482 million and \$636 million at June 30, 2021 and 2020, respectively, includes important projects for academic instruction, research and patient care, as well as central campus utilities.

#### Management's Discussion and Analysis (Unaudited)—Continued

The new Central Campus Classroom Building is being constructed to replace the 1964 addition to the Ruthven building. When complete, this new facility will include 100,000 square feet of active learning classrooms, including an auditorium that will seat approximately 550 students, with total building classroom capacity in excess of 1,400 students. The project also includes the 1928 Ruthven building which will be renovated to include a 200 person multipurpose room as well as space to accommodate the University's central administration staff that is currently located in the Fleming Administration Building. This project is scheduled to be completed in fall 2021.

Renovation and expansion of the W.K. Kellogg Institute and Dental Building will create a more welcoming, accessible facility with an improved patient entrance as well as new modern teaching clinics including a special care clinic to treat patients with complex medical conditions and disabilities. An open, flexible research space will be created along with space designed to foster collaboration among faculty and students. This project will also address deferred maintenance including exterior envelope repairs and life safety, electrical, mechanical and plumbing system improvements. This project is scheduled to be completed in summer 2022.

Expansion of the University's Central Power Plant will enhance power reliability and reduce greenhouse gas emissions, in accordance with a recommendation by the 2015 President's Committee on Greenhouse Gas Reduction. The Central Power Plant is a highly efficient, reliable on-campus source of heat and electricity that supports mission-critical functions across the University, including research and the demands of a major regional medical center. The expansion includes a 15 megawatt combustion turbine to increase the amount of energy that can be generated on campus, as well as reduce the amount of coal-based electricity purchased by the University. A cumulative reduction of more than 400,000 metric tons of carbon is expected within the first ten years of operation. This project is scheduled to be completed in fall 2021.

The University is aware of its financial stewardship responsibility and works diligently to manage its financial resources effectively, including the prudent use of debt to finance capital projects. A strong debt rating is an important indicator of the University's success in this area. In 2020, S&P Global affirmed its highest credit rating (AAA) for bonds backed by a broad revenue pledge based on the University's robust enrollment and demand, exceptional student quality, retention and graduation rates, strong reputation of the University's health system, excellent balance sheet, exceptional research presence and manageable debt burden. Moody's also affirmed its highest credit rating (Aaa) based on the University's diversified student demand, sustained philanthropic support, expansive research enterprise, high brand value and reputation of the University's health system, and well-established strategic and budgetary framework.

# Management's Discussion and Analysis (Unaudited)—Continued

		20	21	
	Beginning			Ending
	Balance	Additions	Reductions	Balance
		(in mi	llions)	
Commercial paper	\$ 135	\$ 165	\$ 146	\$ 154
Bonds	3,241		81	3,160
	\$ 3,376	\$ 165	\$ 227	\$ 3,314
		20	20	
	Beginning			Ending
	Balance	Additions	Reductions	Balance
		(in mi	llions)	
Commercial paper	\$ 145		\$ 10	\$ 135
Bonds	2,330	\$ 1,026	115	3,241
	\$ 2,475	\$ 1,026	\$ 125	\$ 3,376

Long-term debt activity for the years ended June 30 is summarized as follows:

The University utilizes commercial paper, backed by a general revenue pledge, to provide interim financing for its capital improvement program. Outstanding commercial paper is converted to long-term debt financing as appropriate, within the normal course of business. Outstanding bonds are also supported by the University's general revenue pledge.

# Management's Discussion and Analysis (Unaudited)—Continued

During 2020, the University issued \$988 million of general revenue bonds with a net original issue premium of \$38 million, which included \$138 million of fixed rate, tax-exempt bonds, and \$850 million of fixed rate, taxable bonds. Total bond proceeds of \$1,026 million were utilized to refund existing bonds of \$26 million and provide \$150 million for capital projects, \$848 million for capital projects, refunding of debt and general purposes, and \$2 million for debt issuance costs.

The composition of the University's debt at June 30 is summarized as follows:

	2021	<b>2020</b> (in millions)	2019
Variable rate:			
Commercial paper	\$ 154	\$ 135	\$ 145
Bonds	523	551	566
Fixed rate bonds	2,637	2,690	1,764
	\$ 3,314	\$ 3,376	\$ 2,475

A significant portion of the University's variable rate bonds are subject to remarketing and, in accordance with GASB requirements, such debt is classified as current unless supported by liquidity arrangements such as lines of credit or standby bond purchase agreements which could refinance the debt on a long-term basis. In the event that variable rate bonds are put back to the University by the debt holder, management believes that the use of remarketing agents as well as the University's strong credit rating will ensure that the bonds will be remarketed within a reasonable period of time.

While fixed rate bonds typically have a higher effective rate of interest at the date of issuance as compared to variable rate bonds, they reduce the volatility of required debt service payments and do not require liquidity support such as lines of credit, standby bond purchase agreements or internal liquidity.

Effective interest rates averaged 2.5 percent and 2.9 percent in 2021 and 2020, respectively, including the federal subsidies for interest on taxable Build America Bonds. Interest expense net of federal subsidies received for interest on taxable Build America Bonds totaled \$89 million and \$80 million in 2021 and 2020, respectively.

# Management's Discussion and Analysis (Unaudited)—Continued

#### **Obligations for Postemployment Benefits**

Using current actuarial assumptions, and presuming a continuation of the current level of benefits, the University's obligations for postemployment benefits totaled \$4.4 billion at June 30, 2021, as compared to \$3.5 billion and \$3.1 billion at June 30, 2020 and 2019, respectively. The increase in the reported liability at June 30, 2021 was driven primarily by a decrease in the discount rate offset by a reduction in expected health care claims cost due to favorable experience and changes in health care claims trend assumption rates. The increase in the reported liability at June 30, 2020 was driven primarily by a decrease in the discount rate and mortality and longevity improvements, offset by a reduction in expected health care claims cost due to favorable experience. Since a portion of retiree medical services will be provided by the University's health system, this liability is net of the related margin and fixed costs associated with providing those services which totaled \$795 million, \$629 million and \$580 million at June 30, 2021, 2020 and 2019, respectively.

By implementing a series of health benefit initiatives over the past several years, the University has favorably impacted its total liability for postemployment benefits by \$2.0 billion at June 30, 2021. These initiatives have included cost sharing changes, elimination of Medicare Part B reimbursements for certain retirees and the adjustment of retirement eligibility criteria.

# Management's Discussion and Analysis (Unaudited)—Continued

#### **Net Position**

Net position represents the residual interest in the University's assets and deferred outflows after liabilities and deferred inflows are deducted. The composition of the University's net position at June 30 is summarized as follows:

	2021	<b>2020</b> (in millions)	2019
Net investment in capital assets Restricted:	\$ 3,677	\$ 3,767	\$ 3,743
Nonexpendable:			
Permanent endowment corpus	2,625	2,483	2,329
Expendable:			
Net appreciation of permanent endowments	3,684	2,055	2,144
Funds functioning as endowment	2,974	2,260	2,382
Restricted for operations and other	925	852	686
Unrestricted	5,622	3,110	3,520
	\$ 19,507	\$ 14,527	\$ 14,804

Net investment in capital assets represents the University's capital assets net of accumulated depreciation, outstanding principal balances of debt and capital lease liabilities, unexpended bond proceeds and deferred outflows associated with the acquisition, construction or improvement of those assets.

Restricted nonexpendable net position represents the historical value (corpus) of gifts to the University's permanent endowment funds. Restricted expendable net position is subject to externally imposed stipulations governing their use and includes net appreciation of permanent endowments, funds functioning as endowment and net position restricted for operations, facilities and student loan programs. Restricted expendable net position increased 47 percent, or \$2.4 billion, to \$7.6 billion at June 30, 2021, as compared to a decrease of 1 percent, or \$45 million, to \$5.2 billion at June 30, 2020. The increase experienced during 2021 was driven primarily by strong investment returns within the University's Long Term Portfolio.

Although unrestricted net position is not subject to externally imposed stipulations, substantially all of the University's unrestricted net position has been designated for various academic programs, research initiatives and capital projects. Unrestricted net position at June 30, 2021 totaled \$5.6 billion and included funds functioning as endowment of \$7.7 billion offset by unfunded obligations for postemployment benefits of \$3.6 billion. Unrestricted net position at June 30, 2020 totaled \$3.1 billion and included funds functioning as endowment of \$5.5 billion offset by unfunded obligations for postemployment benefits of \$3.4 billion. Unrestricted net position also includes other net resources which totaled \$1.5 billion and \$1.0 billion at June 30, 2021 and 2020, respectively.

# Management's Discussion and Analysis (Unaudited)—Continued

# **Consolidated Statement of Revenues, Expenses and Changes in Net Position**

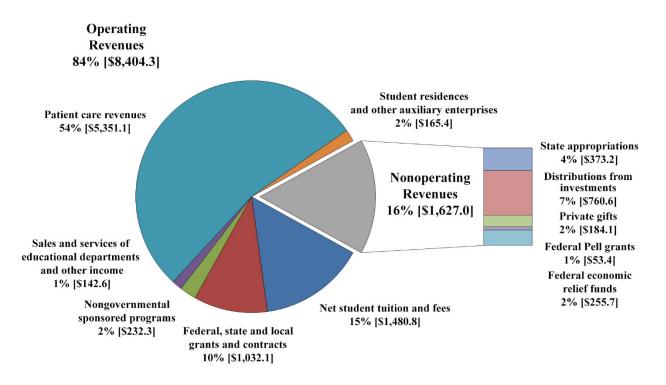
The consolidated statement of revenues, expenses and changes in net position presents the University's results of operations. In accordance with GASB reporting principles, revenues and expenses are classified as either operating or nonoperating. The University's revenues, expenses and changes in net position for the years ended June 30 are summarized as follows:

	2021	<b>2020</b> (in millions)	2019
Operating revenues:			
Net student tuition and fees	\$ 1,480.8	\$ 1,455.6	\$ 1,366.5
Sponsored programs	1,264.4	1,259.9	1,266.4
Patient care revenues, net	5,351.1	4,767.9	4,845.1
Other	308.0	472.2	511.9
	8,404.3	7,955.6	7,989.9
Operating expenses	9,519.1	9,364.3	9,025.0
Operating loss	(1,114.8)	(1,408.7)	(1,035.1)
Nonoperating and other revenues (expenses):			
State educational appropriations	373.2	331.3	370.4
Federal Pell grants	53.4	53.5	51.2
Federal economic relief funds	255.7	143.8	
Private gifts for operating activities	184.1	178.8	177.8
Net investment income	5,141.3	322.6	810.0
Interest expense	(94.7)	(86.0)	(81.4)
Federal subsidies for interest on Build America Bonds	5.5	5.6	7.0
State capital appropriations	32.1	13.9	
Endowment and capital gifts and grants	151.0	167.6	206.1
Other	(6.6)	0.7	16.9
Nonoperating and other revenues, net	6,095.0	1,131.8	1,558.0
Increase (decrease) in net position	4,980.2	(276.9)	522.9
Net position, beginning of year	14,527.0	14,803.9	14,281.0
Net position, end of year	\$ 19,507.2	\$ 14,527.0	\$ 14,803.9

# Management's Discussion and Analysis (Unaudited)—Continued

One of the University's greatest strengths is the diverse streams of revenue that supplement its student tuition and fees, including private support from individuals, foundations and corporations, along with government and other sponsored programs, state appropriations and investment income. The University continues to aggressively seek funding from all possible sources consistent with its mission in order to supplement student tuition and prudently manage the financial resources realized from these efforts to fund its operating activities, which include instruction, patient care and research.

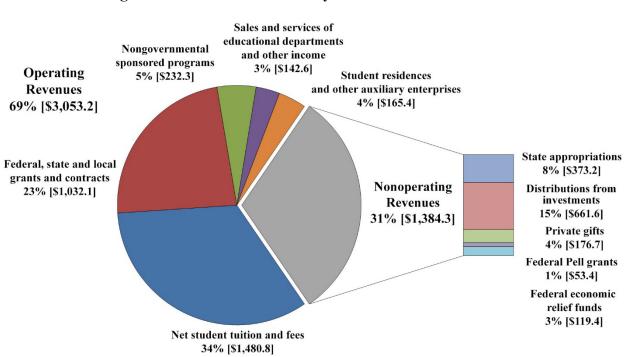
The following is a graphic illustration of revenues by source, both operating and nonoperating, which are used to fund the University's operating activities for the year ended June 30, 2021 (amounts are presented in millions of dollars). Certain recurring sources of the University's revenues are considered nonoperating, as defined by GASB, such as state appropriations, distributions from investments, private gifts and federal Pell grants.



# **2021 Revenues for Operating Activities**

#### Management's Discussion and Analysis (Unaudited)—Continued

The University measures its performance both for the University as a whole and for the University without its health system and other clinical activities. The exclusion of these activities allows a clearer view of the operations of the schools and colleges, as well as central administration. The following is a graphic illustration of University revenues by source, both operating and nonoperating, which are used to fund operating activities other than the health system and other clinical activities, for the year ended June 30, 2021 (amounts are presented in millions of dollars).



#### 2021 Revenues for Operating Activities Excluding Revenues from the Health System and Other Clinical Activities

Tuition and state appropriations are the primary sources of funding for the University's academic programs. There is a relationship between the growth or reduction in state support and the University's ability to restrain tuition fee increases. Together, net student tuition and fees and state educational appropriations increased 4 percent, or \$67 million, to \$1.9 billion in 2021, as compared to 3 percent, or \$50 million, to \$1.8 billion in 2020.

#### Management's Discussion and Analysis (Unaudited)—Continued

In 2021, the University's state educational appropriations increased 13 percent, or \$42 million, to \$373 million reflecting a return to pre-COVID-19 pandemic funding levels. In 2020, the University's state educational appropriations decreased 11 percent, or \$39 million, to \$331 million primarily as a result of the establishment of an allowance against the University's outstanding state educational appropriations receivable due to uncertainties associated with the COVID-19 pandemic.

For the years ended June 30, net student tuition and fees revenue consisted of the following components:

	2021	2020	2019
		(in millions)	
Student tuition and fees Less scholarship allowances	\$ 1,978.0 497.2	\$ 1,944.2 488.6	\$ 1,812.5 446.0
	\$ 1,480.8	\$ 1,455.6	\$ 1,366.5

In 2021, net student tuition and fees revenue increased 2 percent, or \$25 million, to \$1.5 billion, which reflects an increase of 2 percent, or \$34 million, in gross student tuition and fees revenue offset by an increase of 2 percent, or \$9 million, in scholarship allowances. Tuition rate increases in 2021 were 1.9 percent for both resident and nonresident undergraduate students and most graduate students on the Ann Arbor campus, with a 1.9 and 3.9 percent tuition rate increase for most resident undergraduate students on the Dearborn and Flint campuses, respectively. During 2021, the University experienced moderate growth in the number of students, as well as a shift in mix from resident to nonresident students.

In 2020, net student tuition and fees revenue increased 7 percent, or \$89 million, to \$1.5 billion, which reflects an increase of 7 percent, or \$132 million, in gross student tuition and fees revenue offset by an increase of 10 percent, or \$43 million, in scholarship allowances. Tuition rate increases in 2020 were 1.9 percent for resident undergraduate students, 3.7 percent for nonresident undergraduate students and 3.2 percent for most graduate students on the Ann Arbor campus, with a 3.2 and 5.0 percent tuition rate increase for most resident undergraduate students on the Dearborn and Flint campuses, respectively. During 2020, the University experienced moderate growth in the number of students, as well as a shift in mix from resident to nonresident students.

The University's tuition rate increases have consistently been among the lowest in the state, even in years of significant reductions in state appropriations, which reflects a commitment to affordable higher education for Michigan families. In addition, the University has increased scholarship and fellowship expenses and related allowances to benefit students in financial need. The University's long-term plan includes an ongoing commitment to cost containment and reallocating resources to the highest priorities to provide support for innovative new initiatives to maintain academic excellence and help students keep pace with the evolving needs of society.

# Management's Discussion and Analysis (Unaudited)—Continued

While tuition and state appropriations fund a large percentage of University costs, private support is also essential to the University's academic distinction. Private gifts for other than capital and endowment purposes totaled \$184 million in 2021, as compared to \$179 million in 2020 and \$178 million in 2019.

The University receives revenues for sponsored programs from various government agencies and private sources, which normally provide for both direct and indirect costs to perform these sponsored activities, with a significant portion related to federal research. Revenues for sponsored programs remained stable at \$1.3 billion in both 2021 and 2020 as the rate of increase during these periods was limited by capacity constraints within the University's research labs which were initiated in response to the COVID-19 pandemic.

Patient care revenues are principally generated within the University's hospitals and ambulatory care facilities. Patient care revenues increased 12 percent, or \$583 million, to \$5.4 billion in 2021, due primarily to growth in patient volume as well as an increase in revenue per patient case. Patient care revenues decreased 2 percent, or \$77 million, to \$4.8 billion in 2020, due primarily to a decrease in patient volume resulting from a temporary reduction in operations in response to the COVID-19 pandemic.

	<b>2021 2020 2019</b> (in millions)		
University of Michigan Health System UM Health Michigan Health Corporation Other	\$ 4,682.6 507.0 30.9 130.6 \$ 5,351.1	\$ 4,152.6 464.3 36.4 114.6 \$ 4,767.9	\$ 4,212.4 472.5 39.1 121.1 \$ 4,845.1

The largest component of patient care revenues is generated by UMHS, a national leader in advanced patient care and comprehensive education of physicians and medical scientists. UMHS serves as the principal teaching facility for the University's Medical School and operates three hospitals with 1,043 licensed beds for acute care and psychiatric needs, as well as numerous ambulatory care centers, outpatient clinics and various other health care programs across the state. Substantially all physician services to UMHS patients are provided by the University's Medical School faculty. UMHS also provides educational and clinical opportunities to students of the University's Schools of Nursing, Dentistry, Social Work and Public Health, as well as the College of Pharmacy.

#### Management's Discussion and Analysis (Unaudited)—Continued

UM Health patient care revenues primarily represent Metropolitan Hospital, a community health care provider in west Michigan, which operates a hospital with 208 licensed beds for acute care, as well as neighborhood outpatient clinics and a growing network of specialty services. The University's affiliation with Metropolitan Hospital positions UM Health to expand research capabilities, primary care, specialty services and the use of complex medical technologies.

Michigan Health Corporation generates revenue through its various joint venture and managed care initiatives, which provide services to patients including dialysis and other health services.

Other patient care revenues include amounts received from governmental and commercial payers associated with initiatives designed to improve accessibility and quality of care for patients, services provided by physicians working at facilities outside of the University and ambulatory care services provided by University Health Service, the School of Dentistry and the School of Nursing.

Contractual arrangements with governmental payers (Medicare and Medicaid) and private insurers impact patient care revenues. The distribution of net patient care service revenue by primary payer source for the years ended June 30 is summarized as follows:

	2021	2020	2019
Medicare	27%	27%	26%
Medicaid	12%	11%	12%
Blue Cross	38%	39%	38%
Other	23%	23%	24%

Federal economic relief funds represent amounts received from the federal government to provide economic assistance to entities that have been negatively impacted by the COVID-19 pandemic. The University recognized revenue of \$135 million in both 2021 and 2020 associated with the Provider Relief Fund distributed by the U.S. Department of Health and Human Services. Revenue associated with the Higher Education Emergency Relief Fund distributed by the U.S. Department of Education totaled \$77 million in 2021 as compared to \$9 million in 2020. Revenue of \$42 million associated with the Coronavirus Relief Fund distributed by the U.S. Department of the Treasury was recognized during 2021.

Net investment income totaled \$5.1 billion in 2021 as compared to \$323 million in 2020 and \$810 million in 2019. During 2021 the financial markets experienced strong growth following the impact of the COVID-19 pandemic induced slowdown from the prior year. In 2021, the alternative assets returned 51 percent with venture capital and private equity assets leading the alternative asset class with returns of 78 and 51 percent, respectively. Within the marketable assets class, equities led with a return of 51 percent.

# Management's Discussion and Analysis (Unaudited)—Continued

The investment environment in 2020 experienced a significant amount of volatility during the third and fourth quarters due to the impact of the COVID-19 pandemic. During 2020, the alternative asset class had the strongest performance and returned 6 percent for the year. The venture capital and private equity assets led the alternative asset class with returns of 19 percent and 11 percent, respectively.

State capital appropriations help the University improve its academic buildings. Recent capital outlays have supported renovations of the Engineering Lab Building on the Dearborn campus and the William R. Murchie Science Building on the Flint campus.

Gifts and grants for endowment and capital purposes continue to be a significant part of sustaining the University's excellence. Private gifts for permanent endowment purposes totaled \$136 million in 2021, as compared to \$149 million and \$176 million in 2020 and 2019, respectively. Capital gifts and grants totaled \$15 million in 2021, as compared to \$19 million and \$30 million in 2020 and 2019, respectively. In recent years, major gifts have been received in support of the University's wide-ranging capital initiatives which include the health system, Ross School of Business, College of Engineering and Intercollegiate Athletics.

In addition to revenue diversification, the University continues to make cost containment an ongoing priority. This is necessary as the University faces significant financial pressures, particularly in the areas of compensation and benefits, which represent 64 percent of total expenses, as well as in the areas of energy, technology and ongoing maintenance of facilities and infrastructure.

	2021	l	2020	)	201	9
Operating:						
Compensation and benefits	\$ 6,137.5	64%	\$ 6,049.9	64%	\$ 5,769.0	63%
Supplies and services	2,614.4	27	2,574.6	27	2,523.8	28
Depreciation	566.8	6	566.7	6	567.8	6
Scholarships and fellowships	200.4	2	173.1	2	164.4	2
	9,519.1	99	9,364.3	99	9,025.0	99
Nonoperating:						
Interest, net	89.2	1	80.4	1	74.4	1
	\$ 9,608.3	100%	\$ 9,444.7	100%	\$ 9,099.4	100%

The University's expenses for the years ended June 30 are summarized as follows (amounts in millions):

#### Management's Discussion and Analysis (Unaudited)—Continued

The University is committed to recruiting and retaining outstanding faculty and staff and the compensation package is one way to successfully compete with peer institutions and nonacademic employers. Compensation and benefits increased 1 percent, or \$88 million, to \$6.1 billion in 2021 as compared to 5 percent, or \$281 million, to \$6.0 billion in 2020. Of the 2021 increase, compensation increased less than 1 percent, or \$11 million, to \$4.6 billion, due primarily to temporary cost saving measures taken in response to the COVID-19 pandemic, and employee benefits increased 5 percent, or \$77 million, to \$1.5 billion, resulting from an increase in prescription drug costs as well as activity associated with the University's postemployment benefits obligations. For 2020, compensation increased 5 percent, to \$4.6 billion, and benefits increased 5 percent, to \$1.4 billion.

The University faces external and industry realities that put significant pressure on its ability to reduce compensation costs while remaining competitive. To help address this risk, the University continues to review components of its existing benefits program to find opportunities for potential savings without compromising the ability to offer competitive benefits to all faculty and staff.

Health care benefits are one of the most significant employee benefits. Compared to most employers, the University is in a unique position to utilize internal experts to advise and guide its health care and drug plans. Over the past several years, the University has implemented initiatives to better control its rate of cost increase, encourage employees to choose the lowest cost health care plan that meets their needs and share a larger portion of health care cost increases with employees. These initiatives reflect the reality of the national landscape while remaining true to the commitment we make to our employees for a robust benefits package. Careful stewardship of our health benefit plans, including the use of wellness initiatives, helps maintain our competitive position while preserving funding for the University's core mission.

#### Management's Discussion and Analysis (Unaudited)—Continued

Supplies and services expenses increased 2 percent, or \$40 million, to \$2.6 billion in 2021 as compared to an increase of 2 percent, or \$51 million, to \$2.6 billion in 2020. These increases reflect the growth in patient care related expenses, offset partially by cost containment measures taken in response to the COVID-19 pandemic.

In addition to their natural (object) classification, it is also informative to review operating expenses by function. The University's expenses by functional classification for the years ended June 30 are summarized as follows (amounts in millions):

	2021	l	202	0	2019	)
Operating:						
Instruction	\$ 1,175.4	12%	\$ 1,204.8	13%	\$ 1,195.2	13%
Research	853.2	9	862.8	9	857.6	10
Public service	287.9	3	206.4	2	208.7	2
Institutional and academic support	849.5	9	779.9	8	767.0	8
Operations and maintenance of plant	271.9	3	324.1	3	351.6	4
Auxiliary enterprises:						
Patient care	5,114.3	53	4,975.4	53	4,661.5	51
Other	199.7	2	271.1	3	251.2	3
Depreciation	566.8	6	566.7	6	567.8	6
Scholarships and fellowships	200.4	2	173.1	2	164.4	2
<b>Å Å</b>	9,519.1	99	9,364.3	99	9,025.0	99
Nonoperating:	·		, ,			
Interest, net	89.2	1	80.4	1	74.4	1
	\$ 9,608.3	100%	\$ 9,444.7	100%	\$ 9,099.4	100%

Instruction expenses decreased 2 percent, or \$29 million, in 2021, and increased less than 1 percent, or \$10 million, in 2020. This activity reflects the growth in the related revenue sources offset by cost containment efforts.

# Management's Discussion and Analysis (Unaudited)—Continued

Research expenses decreased 1 percent, or \$10 million, in 2021, as compared to an increase of less than 1 percent, or \$5 million, in 2020. The relative stability in both 2021 and 2020, despite the ongoing challenges associated with the COVID-19 pandemic, reflects the strength of the University's overall research enterprise. To measure its total volume of research expenditures, the University considers research expenses included in the above table, as well as research related facilities and administrative expenses, research initiative and start-up expenses and research equipment purchases. These amounts totaled \$1.58 billion in 2021, and \$1.62 billion in both 2020 and 2019.

Patient care expenses increased 3 percent, or \$139 million, in 2021, and 7 percent, or \$314 million, in 2020, and reflect the impact of additional patient activity and capacity expansion. Increased medical supplies expense resulted from higher patient activity levels, the rising cost of pharmaceuticals and the additional cost of personal protective equipment acquired in response to the COVID-19 pandemic.

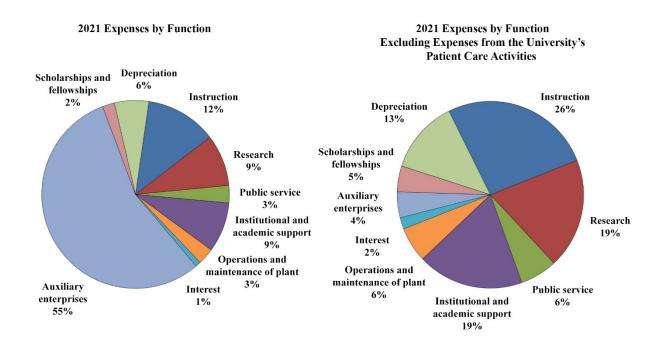
Scholarships and fellowships provided to students totaled \$708 million in 2021, as compared to \$685 million in 2020 and \$635 million in 2019, an increase of 12 percent over the past two years. Tuition, housing and fees revenues are reported net of aid applied to students' accounts, while amounts paid directly to students are reported as scholarships and fellowships expense. Scholarships and fellowships for the years ended June 30 are summarized as follows:

	2021	<b>2020</b> (in millions)	2019
Paid directly to students Applied to tuition and fees Applied to University Housing	\$ 200.4 497.2 10.3	\$ 173.1 488.6 23.1	\$ 164.4 446.0 24.2
	\$ 707.9	\$ 684.8	\$ 634.6

During 2021 and 2020, scholarships and fellowships expense included emergency financial aid grants distributed directly to students in accordance with the terms of the Higher Education Emergency Relief Fund of \$26 million and \$8 million, respectively.

#### Management's Discussion and Analysis (Unaudited)—Continued

The following graphic illustrations present total expenses by function, with and without the University's health system and other patient care activities:



# Management's Discussion and Analysis (Unaudited)—Continued

# **Consolidated Statement of Cash Flows**

The consolidated statement of cash flows provides additional information about the University's financial results by reporting the major sources and uses of cash. The University's cash flows for the years ended June 30 are summarized as follows:

	2021	<b>2020</b> (in millions)	2019
Cash received from operations	\$ 8,081.4	\$ 8,345.6	\$ 7,965.9
Cash expended for operations	(8,412.8)	(8,440.6)	(8,283.8)
Net cash used in operating activities	(331.4)	(95.0)	(317.9)
Net cash provided by noncapital financing activities	900.9	1,705.4	767.7
Net cash used in capital and related financing activities	(569.8)	(602.3)	(597.2)
Net cash (used in) provided by investing activities	(271.3)	(130.0)	411.3
Net (decrease) increase in cash and cash equivalents	(271.6)	878.1	263.9
Cash and cash equivalents, beginning of year	1,275.4	397.3	133.4
Cash and cash equivalents, end of year	\$ 1,003.8	\$ 1,275.4	\$ 397.3

Cash received from operations primarily consists of student tuition, sponsored program grants and contracts, and patient care revenues. Significant sources of cash provided by noncapital financing activities, as defined by GASB, include state appropriations, federal Pell grants and private gifts used to fund operating activities.

# **Economic Factors That May Affect the Future**

The University maintains the highest credit ratings of S&P Global (AAA) and Moody's (Aaa). Achieving and maintaining the highest credit ratings provides the University with significant flexibility in securing capital funds on the most competitive terms. This flexibility, along with ongoing efforts toward revenue diversification and cost containment, will enable the University to provide the necessary resources to support a consistent level of excellence in service to students, patients, the research community, the state and the nation.

#### Management's Discussion and Analysis (Unaudited)—Continued

A crucial element to the University's future continues to be a strong relationship with the state of Michigan. Historically, there has been a connection between the growth or reduction of state support and the University's ability to control tuition increases. Over the past several years, the University has successfully addressed the realities of the state's challenging economy and, pursuant to a long-range plan, continues to work relentlessly to cut and mitigate operational costs in order to remain affordable and preserve access, while protecting the academic enterprise.

The on-going COVID-19 pandemic is expected to continue to impact the state's revenues, which provide the foundation for the University's annual appropriations. Although the State has worked to identify and initiate various cost saving measures in response to the pandemic, the University's budget for 2022 reflects the impact of these economic challenges at the state and local level, and therefore anticipates no change in the level of base state educational appropriations as compared to the prior year. The 2022 budget also anticipates a 1.4 percent tuition rate increase for Ann Arbor campus resident undergraduates and a 6.4 percent increase in centrally awarded financial aid. Nonresident undergraduate tuition rates as well as most graduate and professional rates will increase 1.8 percent. Resident undergraduate tuition rates for the Dearborn campus will increase 1.9 percent, while the Flint campus will see no increase in their resident undergraduate rates.

The University continues to execute its long-range plan to maintain, modernize and expand its complement of older facilities while adding key new facilities for instruction, research, patient care, athletics and residential life. This strategy addresses the University's growth and the continuing effects of technology on teaching, research and clinical activities. Authorized costs to complete construction and other projects totaled \$1,130 million at June 30, 2021. Funding for these projects is anticipated to include \$1,034 million from internal sources, gifts, grants and proceeds from borrowings, \$44 million from the State Building Authority and \$52 million from the utilization of unexpended bond proceeds.

The University's health system continues its strategy to expand access to patients, locally and on a statewide basis. In addition to strategic capital and technological investments, the University's health system is also focusing on clinical affiliation arrangements and population management programs designed to expand community access and improve patient, family and provider experiences across the continuum of care. The affiliation arrangements are also expected to enhance clinical research, physician recruitment and support services.

# Management's Discussion and Analysis (Unaudited)—Continued

While the University's health system is well positioned to maintain its strong financial condition in the near term, ongoing constraints on revenue are expected due to fiscal pressures from employers and federal and state governments. Lawmakers continue to discuss Medicare and Medicaid changes which may target graduate medical education-related payments and could result in a significant impact on teaching hospitals. In addition, private insurance and managed care contracts historically provide for annual increases in reimbursement rates that met or exceeded the rate of inflation; however, there can be no assurance that such trends will continue. Management believes that much of the payment pressure can be offset by growth in patient volume and continued efforts to contain certain costs.

The University will continue to employ its long-term investment strategy to maximize total returns, at an appropriate level of risk, while utilizing a spending rate policy to preserve endowment capital and insulate the University's operations from temporary market volatility.

As a labor-intensive organization, the University faces competitive pressures related to attracting and retaining faculty and staff. Moreover, consistent with the national landscape, the University also faces rising costs of health benefits for its employees and retirees. The University has successfully taken and will continue to take proactive steps to respond to these challenges while protecting the quality of the overall benefits package.

A portion of the University's labor force is unionized, with negotiated labor agreements defining terms and conditions of employment. Changes in relations with unions and represented employees, including the negotiation of new agreements, could have a material effect on the University.

The COVID-19 pandemic and related actions taken by federal and state governments in response may materially impact the University's financial position and its results of operations, including those related to instruction, research, patient care and other auxiliary activities. While the University continues to design and execute plans to mitigate these risks, the extent of the impact to the University will depend on future developments beyond its control, including the overall duration and spread of the outbreak, and cannot be fully determined at this time.

While it is not possible to predict the ultimate results, management believes that the University's financial position will remain strong.

# **Consolidated Statement of Net Position**

Consolidated Statement of Ne		•
	Jun 2021	e 30, 2020
		ousands)
Assets		
Current Assets:		
Cash and cash equivalents	\$ 1,003,846	\$ 1,275,401
Investments for operating activities	1,912,859	1,519,753
Investments for capital activities	627,926	301,721
Investments for student loan activities	70,481	69,866
Accounts receivable, net	970,600	583,857
Current portion of notes and pledges receivable, net	108,708	98,723
Current portion of other assets	183,656	151,859
Cash collateral held by agent	20,040	8,728
Total Current Assets	4,898,116	4,009,908
Noncurrent Assets:		
Unexpended bond proceeds	52,451	125,905
Endowment, life income and other investments	17,532,653	12,704,098
Notes and pledges receivable, net	260,554	275,714
Other assets	131,951	116,184
Capital assets, net	6,187,063	6,273,008
Total Noncurrent Assets	24,164,672	19,494,909
Total Assets	29,062,788	23,504,817
Deferred Outflows	1,124,313	514,092
Liabilities		
Current Liabilities:		
Accounts payable	312,367	333,934
Accrued compensation and other	746,422	550,605
Unearned revenue	557,109	586,252
Current portion of insurance and benefits reserves	269,789	144,827
Current portion of obligations for postemployment benefits	95,581	92,684
Commercial paper and current portion of bonds payable	235,875	215,658
Long-term bonds payable subject to remarketing, net	300,542	441,450
Collateral held for securities lending	20,040	8,728
Total Current Liabilities	2,537,725	2,374,138
Noncurrent Liabilities:		
Accrued compensation	103,563	88,952
Insurance and benefits reserves	170,059	158,604
Obligations for defined benefit pension plan, net	(6,322)	(1,247)
Obligations for postemployment benefits	4,316,565	3,384,804
Obligations under life income agreements	76,995	71,556
Government loan advances	55,585	64,989
Bonds payable	2,777,621	2,719,063
Other liabilities	194,568	160,209
Total Noncurrent Liabilities	7,688,634	6,646,930
Total Liabilities	10,226,359	9,021,068
Deferred Inflows	453,562	470,841
Net Position		
Net investment in capital assets	3,677,053	3,767,199
Restricted:		
Nonexpendable	2,625,459	2,483,225
Expendable	7,582,296	5,166,803
Unrestricted	5,622,372	3,109,773
Total Net Position	\$ 19,507,180	\$ 14,527,000

# Consolidated Statement of Revenues, Expenses and Changes in Net Position

	Year Ende 2021	d June 30, 2020
	(in tho	usands)
Operating Revenues		
Student tuition and fees	\$ 1,977,983	\$ 1,944,169
Less scholarship allowances	497,162	488,576
Net student tuition and fees	1,480,821	1,455,593
Federal grants and contracts	1,019,559	1,005,408
State and local grants and contracts	12,577	11,129
Nongovernmental sponsored programs	232,286	243,326
Sales and services of educational departments	140,594	127,353
Auxiliary enterprises:		
Patient care revenues (net of provision for bad debts of	5 251 266	1 5 ( 5 0 5 0
\$140,672 in 2021 and \$119,101 in 2020)	5,351,066	4,767,872
Student residence fees (net of scholarship allowances of	50.004	114 (40
\$10,260 in 2021 and \$23,138 in 2020)	50,334	114,648
Other revenues	115,029	228,034
Student loan interest income and fees	2,057	2,246
Total Operating Revenues	8,404,323	7,955,609
Operating Expenses		
Compensation and benefits	6,137,455	6,049,913
Supplies and services	2,614,367	2,574,614
Depreciation	566,848	566,694
Scholarships and fellowships	200,431	173,073
Total Operating Expenses	9,519,101	9,364,294
Operating Loss	(1,114,778)	(1,408,685)
Nonoperating Revenues (Expenses)	272 220	221 220
State educational appropriations	373,230	331,330
Federal Pell grants Federal economic relief funds	53,396	53,488
	255,673	143,829
Private gifts for other than capital and endowment purposes Net investment income	184,108	178,754
	5,141,252	322,642
Interest expense Federal subsidies for interest on Build America Bonds	(94,705) 5,529	(86,035)
	<u> </u>	5,584
Total Nonoperating Revenues, Net	5,918,485	949,592
Income (Loss) Before Other Revenues (Expenses)	4,803,705	(459,093)
Other Revenues (Expenses)		
State capital appropriations	32,062	13,853
Capital gifts and grants	14,639	18,682
Private gifts for permanent endowment purposes	136,402	148,932
Other	(6,628)	718
Total Other Revenues, Net	176,475	182,185
Increase (Decrease) in Net Position	4,980,180	(276,908)
Net Position, Beginning of Year	14,527,000	14,803,908
Net Position, End of Year	\$ 19,507,180	\$ 14,527,000
INCLE USHION, ENU OF YEAF	\$ 19,507,180	\$ 14,527,000

# **Consolidated Statement of Cash Flows**

	Year Ender 2021	d June 30, 2020
		usands)
Cash Flows from Operating Activities		usanusj
Student tuition and fees	\$ 1,487,613	\$ 1,448,009
Federal, state and local grants and contracts	1,016,803	1,035,664
Nongovernmental sponsored programs	238,827	256,097
Sales and services of educational departments and other	274,665	309,712
Patient care revenues	4,994,855	5,161,492
Student residence fees	50,936	114,183
Payments to employees	(4,543,478)	(4,548,764)
Payments for benefits	(1,142,841)	(1,240,427)
Payments to suppliers	(2,519,582)	(2,471,802)
Payments for scholarships and fellowships	(200,431)	(173,073)
Student loans issued	(6,430)	(6,523)
Student loans collected	15,662	18,234
Student loan interest and fees collected	2,057	2,246
Net Cash Used in Operating Activities	(331,344)	(94,952)
····· ······ ·························	(*****)	(* 1)* = )
Cash Flows from Noncapital Financing Activities		
State educational appropriations	331,523	372,530
Federal Pell grants	53,396	53,488
Federal economic relief funds	249,737	142,164
Private gifts and other receipts	285,710	291,577
Proceeds from issuance of debt		850,025
Interest payments on debt	(16,830)	
Payments for bond refunding and related costs		(1,963)
Student direct lending receipts	312,147	317,320
Student direct lending disbursements	(311,608)	(316,410)
Amounts received for annuity and life income funds	5,979	6,370
Amounts paid to annuitants and life beneficiaries and related expenses	(9,118)	(9,702)
Net Cash Provided by Noncapital Financing Activities	900,936	1,705,399
Cash Flows from Capital and Related Financing Activities		
State capital appropriations	31,033	10,938
Private gifts and other receipts	37,788	36,347
Proceeds from issuance of capital debt	164,875	175,997
Principal payments on capital debt	(211,690)	(107,946)
Interest payments on capital debt	(91,237)	(101,409)
Federal subsidies for Build America Bonds interest	5,531	9,315
Payments for bond refunding and related costs		(273)
Purchases of capital assets	(507,859)	(626,564)
Proceeds from sales of capital assets	1,739	1,240
Net Cash Used in Capital and Related Financing Activities	(569,820)	(602,355)

# Consolidated Statement of Cash Flows—Continued

	Year Ended June 30,	
	2021	2020
	(in thou	usands)
Cash Flows from Investing Activities		
Interest and dividends on investments, net	24,323	49,260
Proceeds from sales and maturities of investments	8,341,799	5,472,203
Purchases of investments	(8,710,091)	(5,491,398)
Net decrease (increase) in unexpended capital debt proceeds	73,454	(35,092)
Net decrease (increase) in cash equivalents from noncurrent investments	8,232	(116,546)
Net decrease in fiduciary custodial funds and other	(9,044)	(8,397)
Net Cash Used in Investing Activities	(271,327)	(129,970)
Net (Decrease) Increase in Cash and Cash Equivalents	(271,555)	878,122
Cash and Cash Equivalents, Beginning of Year	1,275,401	397,279
Cash and Cash Equivalents, End of Year	\$ 1,003,846	\$ 1,275,401
Operating loss Adjustments to reconcile operating loss to net cash used in operating	\$ (1,114,778)	\$ (1,408,685)
	\$ (1,114,778)	\$ (1,408,685)
activities:		
Depreciation expense	566,848	566,694
Changes in assets and liabilities:		
Accounts receivable, net	(331,111)	106,576
Other assets	(46,807)	(16,161)
Accounts payable	(11,484)	49,994
Accrued compensation and other	230,719	93,947
Unearned revenue	(27,462)	272,979
Insurance and benefits reserves	136,417	71,519
Obligations for defined benefit pension plan, net	(5,075)	1,671
Obligations for postemployment benefits	934,658	363,433
Changes in deferred outflows	(615,072)	(147,161)
Changes in deferred inflows	(48,197)	(49,758)
Net Cash Used in Operating Activities	\$ (331,344)	\$ (94,952)

# **Statement of Fiduciary Net Position**

	June 30,		September 30,		
	2021	2020	2020	2019	
	Custodi	al Funds	Pension T	rust Funds	
		(in thou	isands)		
Assets					
Receivables			\$ 220	\$ 827	
Investments	\$ 274,374	\$ 213,617	77,486	75,590	
Total Assets	274,374	213,617	77,706	76,417	
Liabilities					
Due to individuals and organizations	50,578	49,858	142	52	
Total Liabilities	50,578	49,858	142	52	
Fiduciary Net Position					
Restricted for:					
Pension			77,564	76,365	
Organizations	223,796	163,759			
<b>Total Fiduciary Net Position</b>	\$ 223,796	\$ 163,759	\$ 77,564	\$ 76,365	

The accompanying notes are an integral part of the consolidated financial statements.

# **Statement of Changes in Fiduciary Net Position**

	Year Ende 2021	d June 30, 2020	Year Ended S 2020	September 30, 2019
-	Custodia			rust Funds
		(in thou		
Additions				
Contributions:				
Organizations	\$ 6,327	\$ 3,522		
Employer			\$ 60	\$ 900
Total contributions	6,327	3,522	60	900
Net investment income (loss)	54,582	(9,106)	7,079	5,219
Total Additions	60,909	(5,584)	7,139	6,119
Deductions				
Benefits paid to participants			5,565	8,470
Administrative expenses			375	400
Withdrawals	872	4,850		
Total Deductions	872	4,850	5,940	8,870
Increase (Decrease) in Fiduciary Net				
Position	60,037	(10,434)	1,199	(2,751)
Fiduciary Net Position, Beginning of Year	163,759		76,365	
Adoption of GASB 84		174,193		79,116
Fiduciary Net Position, Beginning of Year,				
as Restated	163,759	174,193	76,365	79,116
Fiduciary Net Position, End of Year	\$ 223,796	\$ 163,759	\$ 77,564	\$ 76,365

The accompanying notes are an integral part of the consolidated financial statements.

#### Notes to Consolidated Financial Statements

June 30, 2021 and 2020

### Note 1—Organization and Summary of Significant Accounting Policies

<u>Organization and Basis of Presentation</u>: The University of Michigan (the "University") is a statesupported institution with an enrollment of over 63,500 students on its three campuses. The financial statements include the individual schools, colleges and departments, the University of Michigan Health System, Michigan Health Corporation (a wholly-owned corporation created for joint venture and managed care initiatives), UM Health (a wholly-owned corporation created to hold and develop the University's statewide network of hospitals, hospital joint ventures and other hospital affiliations, primarily consisting of Metropolitan Hospital) and Veritas Insurance Corporation (a wholly-owned captive insurance company). While the University is a political subdivision of the state of Michigan, it is not a component unit of the State in accordance with Governmental Accounting Standards Board ("GASB") Statement No. 14, *The Financial Reporting Entity*. The University is classified as a state instrumentality under Internal Revenue Code Section 115 and a charitable organization under Internal Revenue Code Section 501(c)(3), and is therefore exempt from federal income taxes. Certain activities of the University may be subject to taxation as unrelated business income under Internal Revenue Code Sections 511 to 514.

Within its consolidated financial statements, the University reports as a special purpose government entity engaged primarily in business type activities, as defined by GASB, on the accrual basis. Business type activities are those that are financed in whole or in part by fees charged to external parties for goods or services.

During 2021, the University adopted GASB Statement No. 84, *Fiduciary Activities*, which required the University to remove fiduciary activities from its consolidated financial statements and present them within the statement of fiduciary net position and statement of changes in fiduciary net position. The University's fiduciary activities represent those resources for which the University acts as a trustee or custodian, including the Metropolitan Hospital pension plan trust which is considered a fiduciary component unit. The adoption of this statement resulted in a decrease in investments for operating activities and deposits of affiliates and others of \$46,348,000, and a decrease in endowment, life income and other investments and deposits of affiliates and other of \$174,193,000 at July 1, 2019.

# Notes to Consolidated Financial Statements—Continued

# Note 1—Organization and Summary of Significant Accounting Policies—Continued

Net position is categorized as:

- Net investment in capital assets: Capital assets, net of accumulated depreciation, outstanding principal balances of debt and capital lease liabilities, unexpended bond proceeds and deferred outflows associated with the acquisition, construction or improvement of those assets.
- Restricted:

<u>Nonexpendable</u> – Net position subject to externally imposed stipulations that it be maintained permanently. Such net position includes the corpus portion (historical value) of gifts to the University's permanent endowment funds and certain investment earnings stipulated by the donor to be reinvested permanently.

<u>Expendable</u> – Net position subject to externally imposed stipulations that can be fulfilled by actions of the University pursuant to those stipulations or that expire by the passage of time. Such net position includes net appreciation of the University's permanent endowment funds that have not been stipulated by the donor to be reinvested permanently.

• Unrestricted: Net position not subject to externally imposed stipulations. Unrestricted net position may be designated for specific purposes by action of management or the Board of Regents. Substantially all unrestricted net position is designated for various academic programs, research initiatives and capital projects.

<u>Summary of Significant Accounting Policies</u>: The University considers all highly liquid investments purchased with a maturity of three months or less to be cash equivalents. Cash equivalents representing assets of the University's endowment, life income and other investments are included in noncurrent investments as these funds are not used for operating purposes.

Investments are reported in four categories in the statement of net position. Investments reported as endowment, life income and other investments are those funds invested in portfolios that are considered by management to be of a long duration. Investments for student loan and capital activities are those funds that are intended to be used for these specific activities. All other investments are reported as investments for operating activities.

# Notes to Consolidated Financial Statements—Continued

# Note 1—Organization and Summary of Significant Accounting Policies—Continued

GASB defines fair value and establishes a framework for measuring fair value that includes a three tiered hierarchy of valuation inputs, placing a priority on those which are observable in the market. Observable inputs reflect market data obtained from sources independent of the reporting entity and unobservable inputs reflect the University's own assumptions about how market participants would value an asset or liability based on the best information available. To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. The three levels of inputs, of which the first two are considered observable and the last unobservable, are as follows:

- Level 1 Quoted prices for identical assets or liabilities in active markets that can be accessed at the measurement date
- Level 2 Other significant observable inputs, either direct or indirect, such as quoted prices for similar assets or liabilities in active markets; quoted prices for identical or similar assets or liabilities in markets that are not active; inputs other than quoted prices that are observable; or market corroborated inputs
- Level 3 Unobservable inputs

GASB allows for the use of net asset value ("NAV") as a practical expedient to determine the fair value of nonmarketable investments if the NAV is calculated in a manner consistent with the Financial Accounting Standards Board's measurement principles for investment companies. Investments that use NAV in determining fair value are disclosed separately from the valuation hierarchy as presented in Note 2.

Investments in marketable securities are carried at fair value, as established by the major securities markets. Purchases and sales of investments are accounted for on the trade date basis. Investment income is recorded on the accrual basis. Realized and unrealized gains and losses are reported in investment income.

Investments in nonmarketable limited partnerships are carried at fair value, which is generally established using the NAV provided by the management of the investment partnerships at June 30, 2021 and 2020. The University may also adjust the fair value of these investments based on market conditions, specific redemption terms and restrictions, risk considerations and other factors. As these investments are not readily marketable, the estimated value is subject to uncertainty, and therefore, may differ from the value that would have been used had a ready market for the investments existed.

# Notes to Consolidated Financial Statements—Continued

# Note 1—Organization and Summary of Significant Accounting Policies—Continued

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 denominated in foreign currencies and related income are translated at spot exchange rates on the transaction dates.

Derivative instruments such as financial futures, forward foreign exchange contracts and interest rate swaps held in investment portfolios, are recorded on the contract date and are carried at fair value using listed price quotations or amounts that approximate fair value. To facilitate trading in financial futures, the University is required to post cash or securities to satisfy margin requirements of the exchange where such futures contracts are listed. The University monitors the required amount of cash and securities on deposit for financial futures transactions and withdraws or deposits cash or securities as necessary.

Accounts receivable are recorded net of an allowance for uncollectible accounts receivable. The allowance is based on management's judgment of potential uncollectible amounts, which includes such factors as historical experience and type of receivable.

The University receives pledges and bequests of financial support from corporations, foundations and individuals. Revenue is recognized when a pledge representing an unconditional promise to give is received and all eligibility requirements, including time requirements, have been met. In the absence of such a promise, revenue is recognized when the gift is received. Permanent endowment pledges do not meet eligibility requirements, as defined by GASB, and are not recorded as assets until the related gift is received.

Unconditional promises to give that are expected to be collected in future years are recorded at the present value of the estimated future cash flows. The discounts on these amounts are computed using risk-free interest rates applicable to the years in which the promises are made, commensurate with expected future payments. An allowance for uncollectible pledges receivable is provided based on management's judgment of potential uncollectible amounts and includes such factors as prior collection history, type of gift and nature of fundraising.

Capital assets are recorded at cost or, if donated, at acquisition value at the date of donation. Depreciation of capital assets is provided on a straight-line method over the estimated useful lives of the respective assets, which generally range from three to fifty years. The University does not capitalize works of art or historical treasures that are held for exhibition, education, research or public service, as these collections are neither disposed of for financial gain nor encumbered in any way.

# Notes to Consolidated Financial Statements—Continued

# Note 1—Organization and Summary of Significant Accounting Policies—Continued

Deferred outflows represent the consumption of net assets attributable to a future period and are primarily associated with the University's obligations for postemployment benefits, debt and derivative activity, and the defined benefit pension plan for Metropolitan Hospital.

Unearned revenue consists primarily of cash received from grant and contract sponsors which has not yet been earned under the terms of the agreement. Unearned revenue also includes amounts received in advance of an event, such as student tuition and advance ticket sales related to future fiscal years. In 2020, the University received amounts from the Centers for Medicare and Medicaid Services under the terms of their Accelerated and Advance Payment Program, which was expanded in response to the COVID-19 pandemic. The unearned portion of these additional advanced payments totaled \$261,396,000 and \$302,298,000 at June 30, 2021 and 2020, respectively, and will be reported as patient care revenues as the qualifying patient care services are performed.

The University holds life income funds for beneficiaries of the pooled income fund, charitable remainder trusts and the gift annuity program. These funds generally pay lifetime income to beneficiaries, after which the principal is made available to the University in accordance with donor intentions. All life income fund assets, including those held in trust, are recorded at fair value. The present value of estimated future payments due to life income beneficiaries is recorded as a liability.

Deferred inflows represent the acquisition of net assets attributable to a future period and are associated with the University's obligations for postemployment benefits, Metropolitan Hospital's defined benefit pension plan and irrevocable split-interest agreements.

For donor restricted endowments, the Uniform Prudent Management of Institutional Funds Act, as adopted in Michigan, permits the Board of Regents to appropriate amounts for endowment spending rule distributions as is considered prudent. The University's policy is to retain net realized and unrealized appreciation with the endowment after spending rule distributions. Net appreciation of permanent endowment funds, which totaled \$3,684,197,000 and \$2,055,430,000 at June 30, 2021 and 2020, respectively, is recorded in restricted expendable net position. The University's endowment spending rule is further discussed in Note 2.

Student tuition and residence fees are presented net of scholarships and fellowships applied to student accounts, while stipends and other payments made directly to students are presented as scholarship and fellowship expenses.

# Notes to Consolidated Financial Statements—Continued

# Note 1—Organization and Summary of Significant Accounting Policies—Continued

Patient care revenues are reported net of contractual allowances and bad debt expenses. Contractual allowances are estimated based on agreements with third-party payers that provide payments for patient care services at amounts different from established rates. These allowances are subject to the laws and regulations governing the federal and state programs and post-payment audits, and adjusted in future periods as final settlements are determined. Patient care services are primarily provided through the University's health system, which includes University Health Service, which offers health care services to students, faculty and staff, and Dental Faculty Associates, which offers dental care services performed by faculty dentists.

Patient care services are provided to patients who meet certain criteria under the University's charity care policies without charge or at amounts less than its established rates. Accordingly, charity care is not reported as revenue in the accompanying statement of revenues, expenses and changes in net position. Charges forgone for charity care services totaled \$62,596,000 and \$94,292,000 in 2021 and 2020, respectively.

Other auxiliary enterprise revenues primarily represent revenues generated by intercollegiate athletics, parking, student unions and student publications.

The University's policy for defining operating activities as reported on the statement of revenues, expenses and changes in net position are those that generally result from exchange transactions such as payments received for providing services and payments made for services or goods received. Nearly all of the University's expenses result from exchange transactions.

Certain significant revenue streams relied upon for operations result from nonexchange transactions and are recorded as nonoperating revenues including state appropriations, federal Pell grants, gifts and investment income.

Federal economic relief funds represent amounts received from the federal government to provide economic assistance to entities that have been negatively impacted by the COVID-19 pandemic. During 2021 and 2020, the University received payments primarily from three programs, the Provider Relief Fund, the Higher Education Emergency Relief Fund and the Coronavirus Relief Fund.

The Provider Relief Fund is administered through the U.S. Department of Health and Human Services and offers funding to hospitals and health care providers to support expenses incurred or revenues lost associated with the COVID-19 pandemic. Funds received are recognized into revenue as the University identifies eligible expenditures or lost revenues which qualify for reimbursement. Revenue recognized under the terms of this program totaled \$135,325,000 and \$134,670,000 in 2021 and 2020, respectively.

# Notes to Consolidated Financial Statements—Continued

# Note 1—Organization and Summary of Significant Accounting Policies—Continued

The Higher Education Emergency Relief Fund is administered through the U.S. Department of Education and was designed to facilitate the distribution of emergency financial aid grants directly to students, as well as to provide funding for institutions negatively impacted by the COVID-19 pandemic. Under the terms of the student portion of this program, revenue is recognized once eligible expenditures associated with the distribution of aid to students have been incurred. For the institutional portions of this program, revenue is recognized as the University identifies eligible expenditures or lost revenues which qualify for reimbursement. Revenue recognized under the terms of this program totaled \$77,055,000 and \$9,159,000 in 2021 and 2020, respectively.

The Coronavirus Relief Fund is administered through the U.S. Department of the Treasury and provides assistance to state, local and tribal governments to support expenses incurred due to the public health emergency associated with the COVID-19 pandemic. Funds received from the state of Michigan are recognized into revenue as the University identifies eligible expenditures which qualify for reimbursement. Revenue recognized under the terms of this program totaled \$42,380,000 in 2021.

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 amounts reported in the financial statements and accompanying notes. Actual results could differ from those estimates. The most significant areas that require management estimates relate to self-insurance and benefits obligations.

### Note 2—Cash and Investments

<u>Summary</u>: The University maintains centralized management for substantially all of its cash and investments.

Working capital of individual University units is primarily invested in the University Investment Pool ("UIP"). Together with the University's short-term insurance and other benefits reserves, the UIP is invested in the Daily and Monthly Portfolios, which are principally invested in investmentgrade money market securities, U.S. government and other fixed income securities, and absolute return strategies.

The University collectively invests substantially all of the assets of its endowment funds along with a portion of its insurance and benefits reserves, charitable remainder trusts and gift annuity program in the Long Term Portfolio. The longer investment horizon of the Long Term Portfolio allows for an equity-oriented strategy to achieve higher expected returns over time, and permits

# Notes to Consolidated Financial Statements—Continued

## Note 2—Cash and Investments—Continued

the use of less liquid alternative investments, providing for equity diversification beyond the stock markets. The Long Term Portfolio includes investments in domestic and non-U.S. stocks and bonds, commingled funds and limited partnerships consisting of venture capital, private equity, real estate, natural resources and absolute return strategies.

The University also separately invests certain endowments and charitable remainder trusts, unexpended bond proceeds and other funds with investment restrictions outside of the Daily, Monthly and Long Term Portfolios.

The University holds invested funds as a result of agency relationships with various groups that are considered fiduciary in nature. Funds received are invested in either UIP, or the University Endowment Fund ("UEF"), a comingled pool invested entirely in the Long Term Portfolio. The University establishes the fair value of the UIP at \$1.00 per share and any participant in the pool may purchase or redeem shares at that price. The University determines the fair value of UEF shares at the end of each calendar quarter based on the fair value of the pool. Participants may purchase or redeem UEF shares at fair value at each valuation date, subject to minimum holding and notice requirements.

Given the comingled nature of the underlying pools in which the UIP and UEF invest, unitized shares are not specifically associated with individual investments. Therefore, the University's investment activities as presented within the consolidated statement of cash flows as well as this note are presented gross, with a corresponding adjustment to remove the fiduciary custodial activities that are presented within the statement of fiduciary net position and statement of changes in fiduciary net position.

<u>Authorizations</u>: The University's investment policies are governed and authorized by University Bylaws and the Board of Regents. The approved asset allocation policy for the Long Term Portfolio sets general targets for both equities and fixed income securities. Since diversification is a fundamental risk management strategy, the Long Term Portfolio is broadly diversified within these general categories.

The endowment spending rule provides for distributions from the UEF to the entities that benefit from the endowment fund. The annual distribution rate is 4.5 percent of the one-quarter lagged seven year moving average fair value of fund shares. To protect endowment principal in the event of a prolonged market downturn, distributions are limited to 5.3 percent of the current fair value of fund shares. Distributions are also made from the UIP based on the 90-day U.S. Treasury Bill rate. The University's costs to administer and grow the UEF and UIP are funded by investment returns.

## Notes to Consolidated Financial Statements—Continued

## Note 2—Cash and Investments—Continued

<u>Cash and Cash Equivalents and Unexpended Bond Proceeds</u>: Cash and cash equivalents, which totaled \$1,003,846,000 and \$1,275,401,000 at June 30, 2021 and 2020, respectively, represent cash and short-term money market investments in mutual funds, overnight collective funds managed by the University's custodian or short-term highly liquid investments registered as securities and held by the University or its agents in the University's name. Of its cash and cash equivalents, the University had actual cash balances in its bank accounts in excess of Federal Deposit Insurance Corporation limits in the amount of \$72,126,000 and \$84,860,000 at June 30, 2021 and 2020, respectively. The University does not require its deposits to be collateralized or insured.

Unexpended bond proceeds, which totaled \$52,451,000 and \$125,905,000 at June 30, 2021 and 2020, respectively, represent short-term money market investments in mutual funds. These amounts are used solely for the reimbursement of qualifying expenditures for construction projects associated with certain outstanding general revenue bonds issued by the University.

Cash and cash equivalents and unexpended bond proceeds include certain securities that are subject to the leveling requirements defined by GASB. Level 1 securities, which primarily consist of money market funds and U.S. government securities, totaled \$926,114,000 and \$1,198,773,000 at June 30, 2021 and 2020, respectively. Level 2 securities, which primarily consist of U.S. agencies, totaled \$5,500,000 and \$59,000,000 at June 30, 2021 and 2020, respectively.

<u>Investments</u>: At June 30, 2021 and 2020, the University's investments, which are held by the University or its agents in the University's name, are summarized as follows:

	<b>2021</b> (in th	<b>2020</b> nousands)
Cash equivalents, noncurrent	\$ 276,168	\$ 284,268
Equity securities	752,048	486,404
Fixed income securities	3,010,819	2,075,171
Commingled funds	3,190,302	2,589,411
Nonmarketable alternative investments	13,183,395	9,361,811
Other investments	5,561	11,990
	20,418,293	14,809,055
Less fiduciary custodial funds	274,374	213,617
	\$ 20,143,919	\$ 14,595,438

# Notes to Consolidated Financial Statements—Continued

# Note 2—Cash and Investments—Continued

At June 30, 2021 and 2020, the fair value of the University's investments based on the inputs used to value them is summarized as follows:

	2021				
	Level 1	Level 2	Level 3 (in thousands)	NAV	Total Fair Value
Cash equivalents, noncurrent	\$ 276,168	-	-	-	\$ 276,168
Equity securities:					
Domestic	155,737		\$ 52,154		207,891
Foreign	542,969		1,188		544,157
	698,706	_	53,342	-	752,048
Fixed income securities:					,010
U.S. Treasury	1,887,542				1,887,542
U.S. government agency		\$ 49,513			49,513
Corporate and other		1,068,479	5,285		1,073,764
-	1,887,542	1,117,992	5,285	-	3,010,819
Commingled funds:					
Absolute return				\$ 2,524,614	2,524,614
Domestic equities	14,060			268,714	282,774
Global equities	49			359,321	359,370
U.S. fixed income	3,092				3,092
Other	20,452				20,452
	37,653	-	-	3,152,649	3,190,302
Nonmarketable alternative investments:					
Venture capital				4,592,803	4,592,803
Absolute return				2,556,764	2,556,764
Private equity			449,800	2,460,896	2,910,696
Real estate			8,658	1,590,549	1,599,207
Natural resources			203,886	1,320,039	1,523,925
-	-	-	662,344	12,521,051	13,183,395
Other investments	(2,665)	(1,235)	9,461	-	5,561
	\$ 2,897,404	\$ 1,116,757	\$ 730,432	\$ 15,673,700	20,418,293

funds

274,374 \$ 20,143,919

## Notes to Consolidated Financial Statements—Continued

#### Note 2—Cash and Investments—Continued

			2020		
-	Level 1	Level 2	Level 3 (in thousands)	NAV	Total Fair Value
Cash equivalents, noncurrent	\$ 284,268	-	-	-	\$ 284,268
Equity securities:					
Domestic	88,599		\$ 52,098		140,697
Foreign	344,722		985		345,707
<u> </u>	433,321	-	53,083	-	486,404
Fixed income securities: U.S. Treasury U.S. government agency Corporate and other	1,405,695	\$ 31,848 626,043	11,585		1,405,695 31,848 637,628
-	1,405,695	657,891	11,585	-	2,075,171
Commingled funds: Absolute return Domestic equities Global equities U.S. fixed income Other	9,494 674 3,061 16,003			\$ 2,154,259 144,541 261,379	2,154,259 154,035 262,053 3,061 16,003
	29,232	-	-	2,560,179	2,589,411
Nonmarketable alternative investments: Venture capital Absolute return Private equity Real estate Natural resources	-	-	279,200 8,331 160,993 448,524	2,673,995 2,174,643 1,701,552 1,347,008 1,016,089 8,913,287	2,673,995 2,174,643 1,980,752 1,355,339 1,177,082 9,361,811
Other investments	(6) \$ 2,152,510	2,467	9,529 \$ 522,721	- \$ 11,473,466	11,990 14,809,055
Less fiduciary custodial funds	÷ 2,102,010	¥ 000,220	<i>Ф оцц, ц</i>	÷ 11,175,100	<u>213,617</u> \$ 14,595,438

Investments categorized as Level 1 are valued using prices quoted in active markets for those securities. Equity securities categorized as Level 3 represent investments in start-up or venture companies. Fixed income securities categorized as Level 2 represent investments valued using a matrix pricing technique, which values debt securities based on their relationship to a benchmark and the relative spread to that benchmark. Fixed income securities categorized as Level 3 represent debt investments with select venture funded University faculty start-ups. Nonmarketable alternative investments categorized as Level 3 primarily represent direct investments which are valued using models that rely on inputs which are unobservable in the market.

#### Notes to Consolidated Financial Statements—Continued

#### Note 2—Cash and Investments—Continued

The University's investment strategy incorporates certain financial instruments that involve, to varying degrees, elements of market risk and credit risk in excess of amounts recorded in the financial statements. Market risk is the potential for changes in the value of financial instruments due to market changes, including interest and foreign exchange rate movements and fluctuations embodied in forwards, futures and commodity or security prices. Market risk is directly impacted by the volatility and liquidity of the markets in which the underlying assets are traded. Credit risk is the possibility that a loss may occur due to the failure of a counterparty to perform according to the terms of the contract. The University's risk of loss in the event of a counterparty default is typically limited to the amounts recognized in the statement of net position and is not represented by the contract or notional amounts of the instruments.

Fixed income securities have inherent financial risks, including credit risk and interest rate risk. Credit risk for fixed income securities is the risk that the issuer will not fulfill its obligations. Nationally recognized statistical rating organizations ("NSROs"), such as S&P Global and Moody's, assign credit ratings to security issues and issuers that indicate a measure of potential credit risk to investors. Fixed income securities considered investment grade are those rated at least BBB by S&P Global and Baa by Moody's. To manage credit risk, the University specifies minimum average and minimum absolute quality NSRO ratings for securities held pursuant to its management agreements.

The University minimizes concentration of credit risk, the risk of a large loss attributed to the magnitude of the investment in a single issuer of fixed income securities, by diversifying its fixed income issues and issuers and holding U.S. Treasury securities which are considered to have minimal credit risk. The University also manages this risk at the account level by limiting each fixed income manager's holding of any non-U.S. government issuer to 5 percent of the value of the investment account.

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of fixed income securities. Effective duration, a commonly used measure of interest rate risk, incorporates a security's yield, coupon, final maturity, call features and other embedded options into one number expressed in years that indicates how price-sensitive a security or portfolio of securities is to changes in interest rates. The effective duration of a security or portfolio indicates the approximate percentage change in fair value expected for a one percent change in interest rates. The longer the duration, the more sensitive the security or portfolio is to changes in interest rates. The weighted average effective duration of the University's fixed income securities was 3.2 years at June 30, 2021 compared to 3.6 years at June 30, 2020. The University manages the effective duration of its fixed income securities at the account level, where fixed income managers generally may not deviate from the duration of their respective benchmarks by more than 25 percent. The Monthly Portfolio held positions in bond futures at June 30, 2021 and 2020, which are used to adjust the duration of cash equivalents and the fixed income portion of the portfolios.

#### Notes to Consolidated Financial Statements—Continued

#### Note 2—Cash and Investments—Continued

The composition of fixed income securities at June 30, 2021 and 2020, along with credit quality and effective duration measures, is summarized as follows:

			2021			
	U.S. Government	Investment Grade	Non- Investment Grade (in thousands)	Not Rated	Total	Duration (in years)
U.S. Treasury U.S. Treasury inflation	\$ 1,884,675				\$ 1,884,675	2.7
protected U.S. government agency	2,867 49,513				2,867 49,513	17.1 5.2
Mortgage backed Asset backed		\$ 40,465 111,033	\$ 66	\$ 10,047 400	50,578 111,433	1.6 0.8
Corporate and other	\$ 1,937,055	845,052 \$ 996,550	19,927 \$ 19,993	46,774 \$ 57,221	911,753 \$ 3,010,819	4.5 3.2
			2020			
	U.S. Government	Investment Grade	Non- Investment Grade (in thousands)	Not Rated	Total	Duration (in years)
U.S. Treasury U.S. Treasury inflation	\$ 1,396,416				\$ 1,396,416	2.1
protected U.S. government agency	9,279 31,848				9,279 31,848	8.0 1.7
Mortgage backed Asset backed		\$ 31,752 40,676	\$ 299	\$ 2,531	34,582 40,676	1.9 0.9
Corporate and other	\$ 1,437,543	527,843 \$ 600,271	14,431 \$ 14,730	20,096 \$ 22,627	562,370 \$ 2,075,171	7.8 3.6

Of the University's fixed income securities, 97 percent and 98 percent were rated investment grade or better at June 30, 2021 and 2020, respectively, and 73 percent and 75 percent of these securities consisted of either U.S. treasury and government agencies or non-U.S. government securities rated AAA/Aaa at June 30, 2021 and 2020, respectively.

Commingled (pooled) funds include Securities and Exchange Commission regulated mutual funds and externally managed funds, limited partnerships and corporate structures which are generally unrated and unregulated. Certain commingled funds may use derivatives, short positions and leverage as part of their investment strategy. These investments are structured to limit the University's risk exposure to the amount of invested capital.

## Notes to Consolidated Financial Statements—Continued

## Note 2—Cash and Investments—Continued

Nonmarketable alternative investments consist of limited partnerships and similar vehicles involving an advance commitment of capital called by the general partner as needed and distributions of capital and return on invested capital as underlying strategies are concluded during the life of the partnership. There is not an active secondary market for these alternative investments, which are generally unrated and unregulated, and the liquidity of these investments is dependent on actions taken by the general partner. The University's limited partnerships are diversified in terms of manager selection, industry and geographic focus. At June 30, 2021 and 2020, no individual partnership investment represented 5 percent or more of total investments.

Absolute return strategies in the commingled funds and nonmarketable alternative investments classifications include long/short stock programs, merger arbitrage, intra-capital structure arbitrage and distressed debt investments. The goal of absolute return strategies is to provide, in aggregate, a return that is consistently positive and uncorrelated with the overall market.

The University's investments in commingled funds and nonmarketable alternative investments are contractual agreements that may limit the ability to initiate redemptions due to notice periods, lock-ups and gates. Additional information about current redemption terms and outstanding commitments at June 30, 2021 is summarized as follows (amounts in thousands):

		Remaining	Outstanding		
	Fair Value	Life	Commitments	Redemption Terms	Redemption Notice
Commingled funds	\$ 3,190,302	N/A	\$ -	Daily, monthly, quarterly and annually, with varying notice periods	Lock-up provisions range from none to five years
Nonmarketable alternative					
investments	\$ 13,183,395	1-12 years	\$ 4,622,311	Ineligible for redemption	N/A

Commingled funds have liquidity (redemption) provisions, which enable the University to make full or partial withdrawals with notice, subject to restrictions on the timing and amount. Of the University's commingled funds at June 30, 2021 and 2020, 79 percent and 74 percent, respectively, are redeemable within one year, with 65 percent and 55 percent, respectively, redeemable within 90 days under normal market conditions. The remaining amounts are redeemable beyond one year, with redemption of certain funds dependent on disposition of the underlying assets. The University's committed but unpaid obligation to nonmarketable alternative investments is further discussed in Note 14.

#### Notes to Consolidated Financial Statements—Continued

#### Note 2—Cash and Investments—Continued

The University participates in non-U.S. developed and emerging markets through commingled funds invested in non-U.S./global equities and absolute return strategies. Although all of these funds are reported in U.S. dollars, price changes of the underlying securities in local markets as well as changes to the value of local currencies relative to the U.S. dollar are embedded in investment returns. In addition, a portion of the University's equity securities and nonmarketable alternative investments are denominated in foreign currencies, which must be settled in local (non-U.S.) currencies.

Foreign exchange risk is the risk that investments denominated in foreign currencies may lose value due to adverse fluctuations in the value of the U.S. dollar relative to foreign currencies. Forward foreign currency contracts are typically used to manage the risks related to fluctuations in currency exchange rates between the time of purchase or sale and the actual settlement of foreign securities. Various investment managers acting for the University use forward foreign exchange contracts in risk-based transactions to carry out their portfolio strategies and are subject to agreements that provide minimum diversification and maximum exposure limits by country and currency.

The value of the University's non-U.S. dollar holdings, net of the value of the outstanding forward foreign exchange contracts, totaled \$1,777,448,000 or 9 percent of total investments at June 30, 2021, and \$1,377,093,000 or 9 percent of total investments at June 30, 2020, and are summarized as follows:

	2021	2020
	(in th	nousands)
Euro	\$ 885,763	\$ 840,583
British pound sterling	279,092	173,115
Swedish krona	236,595	100,114
Canadian dollar	143,015	43,004
Japanese yen	135,042	129,016
Norwegian krone	51,616	63,875
Other	46,325	27,386
	\$ 1,777,448	\$ 1,377,093

The Long Term Portfolio and the Monthly Portfolio participate in a short-term, fully collateralized, securities lending program administered by the University's master custodian. Together, the Portfolios had \$21,472,000 and \$15,989,000 in securities loans outstanding at June 30, 2021 and 2020, respectively. At loan inception, an approved borrower must deliver collateral of cash, securities or letters of credit to the University's lending agent equal to 102 percent of fair

## Notes to Consolidated Financial Statements—Continued

# Note 2—Cash and Investments—Continued

value for domestic securities and 105 percent for foreign securities. Collateral positions are monitored daily to ensure that borrowed securities are never less than 100 percent collateralized. At June 30, 2021, collateral of \$22,227,000 (104 percent of securities on loan) includes invested cash of \$20,040,000 and U.S. government securities of \$2,187,000, while at June 30, 2020, collateral of \$16,607,000 (104 percent of securities on loan) includes invested cash of \$8,728,000 and U.S. government securities on loan) includes invested cash of \$8,728,000 and U.S. government securities on loan) includes invested cash of \$8,728,000 and U.S. government securities on loan) includes invested cash of \$8,728,000 and U.S. government securities of \$7,879,000.

Cash collateral held by the University's lending agent, along with the offsetting liability to return the collateral at loan termination, are recorded in the statement of net position. Neither the University nor its securities lending agent has the ability to pledge or sell securities received as collateral unless a borrower defaults. Securities loans may be terminated upon notice by either the University or the borrower.

### Note 3—Accounts Receivable

The composition of accounts receivable at June 30, 2021 and 2020 is summarized as follows:

	2021	2020
	(in thousands)	
Patient care Sponsored programs	\$ 778,548 177,384	\$ 439,345 153,470
State appropriations, educational and capital	71,804	70,732
Student accounts	38,445	43,327
Other	45,947	38,500
	1,112,128	745,374
Less allowance for uncollectible accounts receivable:		
Patient care	131,628	110,131
State educational appropriations		41,664
All other	9,900	9,722
	\$ 970,600	\$ 583,857

During 2020, the state of Michigan experienced a reduction to its overall revenues due to the economic impact of the COVID-19 pandemic, which created uncertainty regarding the timing and amount of the University's state appropriations payments. In July 2020, the State amended its 2020 appropriations bill to replace \$41,664,000 of the University's state educational appropriations with Coronavirus Relief Funds. The University considered this amendment to be a recognized subsequent event relative to contingencies that existed at June 30, 2020, and therefore established a corresponding valuation allowance as of that date.

#### Notes to Consolidated Financial Statements—Continued

#### Note 4—Notes and Pledges Receivable

The composition of notes and pledges receivable at June 30, 2021 and 2020 is summarized as follows:

	2021	2020
	(in thou	isands)
Notes:		
Federal student loan programs	\$ 54,341	\$ 63,134
University student loan funds	14,233	14,777
Other	7,909	5,664
	76,483	83,575
Less allowance for uncollectible notes	3,100	3,134
Total notes receivable, net	73,383	80,441
Gift pledges: Capital	94,264	119,205
Operations	212,471	186,723
Less:	306,735	305,928
Allowance for uncollectible pledges	7,407	7,488
Unamortized discount to present value	3,449	4,444
Total pledges receivable, net	295,879	293,996
Total votes and aladaes approximable wat	260.262	274 427
Total notes and pledges receivable, net	369,262	374,437
Less current portion	108,708	98,723
	\$ 260,554	\$ 275,714

The principal repayment and interest rate terms of federal and University loans vary considerably. The allowance for uncollectible notes only applies to University funded loans and the University portion of federal student loans, as the University is not obligated to fund the federal portion of uncollected student loans. Federal loan programs are funded principally with federal advances to the University under the Perkins and various health professions loan programs.

#### Notes to Consolidated Financial Statements—Continued

### Note 4—Notes and Pledges Receivable—Continued

Payments on pledges receivable at June 30, 2021 are expected to be received in the following years ended June 30 (in thousands):

2022	\$ 92,921
2023	57,687
2024	65,712
2025	32,844
2026	21,050
2027 and after	36,521
	\$ 306,735

Permanent endowment pledges do not meet eligibility requirements, as defined by GASB, until the related gift is received. Accordingly, permanent endowment pledges totaling \$129,158,000 and \$140,439,000 at June 30, 2021 and 2020, respectively, are not recognized as assets in the accompanying financial statements. In addition, bequest intentions and other conditional promises are not recognized as assets until the specified conditions are met due to uncertainties with regard to their realizability and valuation.

#### Notes to Consolidated Financial Statements—Continued

### Note 5—Capital Assets

Capital assets activity for the years ended June 30, 2021 and 2020 is summarized as follows:

	2021						
	Beginning			Ending			
	Balance	Additions	Retirements	Balance			
		(in th	ousands)	1			
Land	\$ 153,218	\$ 1,897	\$ 4	\$ 155,111			
Land improvements	163,626	5,671	1,176	168,121			
Infrastructure	264,778	96		264,874			
Buildings	9,608,386	516,904	55,670	10,069,620			
Construction in progress	635,515	(153,610)		481,905			
Equipment	2,241,083	91,249	99,717	2,232,615			
Library materials	699,201	25,471		724,672			
	13,765,807	487,678	156,567	14,096,918			
Less accumulated depreciation	7,492,799	566,848	149,792	7,909,855			
	\$ 6,273,008	\$ (79,170)	\$ 6,775	\$ 6,187,063			

	2020			
	Beginning			Ending
	Balance	Additions	Retirements	Balance
		(in th	iousands)	1
Land	\$ 153,310		\$ 92	\$ 153,218
Land improvements	160,301	\$ 3,666	341	163,626
Infrastructure	264,757	21		264,778
Buildings	9,412,876	224,134	28,624	9,608,386
Construction in progress	413,207	222,308		635,515
Equipment	2,242,493	143,259	144,669	2,241,083
Library materials	674,491	24,710		699,201
	13,321,435	618,098	173,726	13,765,807
Less accumulated depreciation	7,094,466	566,694	168,361	7,492,799
	\$ 6,226,969	\$ 51,404	\$ 5,365	\$ 6,273,008

The decrease in construction in progress of \$153,610,000 in 2021 represents the amount of capital expenditures for new projects of \$359,238,000 net of assets placed in service of \$512,848,000. The increase in construction in progress of \$222,308,000 in 2020 represents the amount of capital expenditures for new projects of \$501,330,000 net of assets placed in service of \$279,022,000.

# Notes to Consolidated Financial Statements—Continued

# Note 6—Long-term Debt

Long-term debt at June 30, 2021 and 2020 is summarized as follows:

	<b>2021</b> (in tho	<b>2020</b> Isands)
Commercial paper:		sund)
Tax-exempt, variable rate (0.11%)*	\$ 149,305	\$ 133,585
Taxable, variable rate (0.08%)*	4,220	1,720
General revenue bonds:	· ·	,
Series 2020A, 4.00% to 5.00% through 2050	138,430	138,430
unamortized premium	35,589	37,469
Series 2020B, taxable, 1.004% to 2.562% through 2050	850,025	850,025
Series 2019A, 5.00% through 2036	132,140	140,470
unamortized premium	20,674	23,721
Series 2019B, taxable, 2.706% to 3.416% through 2029	13,765	15,280
Series 2019C, 4.00% through 2049	61,725	61,725
unamortized premium	5,443	5,696
Series 2018A, 4.00% to 5.00% through 2048	130,025	132,640
unamortized premium	15,915	16,941
Series 2017A, 4.00% to 5.00% through 2047	420,990	434,505
unamortized premium	60,910	66,527
Series 2015, 4.00% to 5.00% through 2046	280,950	287,170
unamortized premium	38,791	41,662
Series 2014A, 4.25% to 5.00% through 2044	70,425	72,375
unamortized premium	5,201	5,621
Series 2014B, taxable, 2.922% to 3.516% through 2024	2,945	3,890
Series 2013A, 2.50% to 5.00% through 2029	40,780	42,180
unamortized premium	1,005	1,209
Series 2012A, variable rate (0.02%)* through 2036	50,000	50,000
Series 2012B, variable rate (0.01%)* through 2042	65,000	65,000
Series 2012D-1, variable rate (0.01%)* through 2025 with partial swap		
to fixed through 2025	48,915	52,870
Series 2012D-2, variable rate (0.02%)* through 2030 with partial swap		
to fixed through 2026	49,025	53,750
Series 2012E**, variable rate (0.30%)* through 2033	82,020	94,015
Series 2010A, taxable Build America Bonds, 4.926% to 5.593% through 2040	163,110	163,110
Series 2010D, taxable Build America Bonds, 3.606% to 5.333% through 2041	148,205	149,755
Series 2009B, variable rate (0.10%)* through 2039	118,710	118,710
Series 2008A, variable rate (0.01%)* through 2038	57,085	57,085
Series 2008B, variable rate (0.02%)* through 2028 with partial swap to fixed		
through 2026	52,715	59,035
	3,314,038	3,376,171
Less:	225.055	015 (50
Commercial paper and current portion of bonds payable	235,875	215,658
Long-term bonds payable subject to remarketing, net	300,542	441,450
	\$ 2,777,621	\$ 2,719,063

\* Denotes variable rate at June 30, 2021\*\* Denotes variable rate bonds not subject to remarketing

#### Notes to Consolidated Financial Statements—Continued

#### Note 6—Long-term Debt—Continued

Certain variable rate bonds have remarketing features which allow bondholders to put debt back to the University. Accordingly, these variable rate bonds are classified as current unless supported by liquidity agreements, such as lines of credit or standby bond purchase agreements, which can refinance the debt on a long-term basis. The classification of the University's variable rate bonds payable subject to remarketing at June 30, 2021 and 2020 is summarized as follows:

	2021	2020
	(in the	usands)
Variable rate bonds payable subject to remarketing	\$ 441,450	\$ 456,450
Less: Current principal maturities	15,645	15,000
Long-term liquidity agreements:	,	,
Unsecured lines of credit	125,263	
Long-term bonds payable subject to remarketing, net	\$ 300,542	\$ 441,450

The University's available lines of credit totaled \$1,247,085,000 and were entirely unused at both June 30, 2021 and 2020.

In connection with certain issues of variable rate debt, the University has entered into floating-tofixed interest rate swaps to convert all or a portion of the associated variable rate debt to synthetic fixed rates to protect against the potential of rising interest rates. The fair value, significant terms and other information about the University's interest rate swaps is discussed in Note 7.

# Notes to Consolidated Financial Statements—Continued

## Note 6—Long-term Debt—Continued

Long-term debt activity for the years ended June 30, 2021 and 2020 is summarized as follows:

	2021			
-	Beginning			Ending
	Balance	Additions	Reductions	Balance
		(in tho	usands)	
Commercial paper	\$ 135,305	\$ 164,875	\$ 146,655	\$ 153,525
Bonds	3,240,866		80,353	3,160,513
	\$ 3,376,171	\$ 164,875	\$ 227,008	\$ 3,314,038
		20	20	
	Beginning			Ending
	Balance	Additions	Reductions	Balance
		(in tho	usands)	
Commercial paper	\$ 145,240		\$ 9,935	\$ 135,305
Bonds	2,329,697	\$ 1,026,022	114,853	3,240,866
Other	91		91	
	\$ 2,475,028	\$ 1,026,022	\$ 124,879	\$ 3,376,171

The University maintains a combination of variable and fixed rate debt supported by general revenues, with effective interest rates that averaged 2.5 percent and 2.9 percent in 2021 and 2020, respectively, including federal subsidies for interest on taxable Build America Bonds.

The University utilizes commercial paper to provide interim financing for its capital improvement program. The Board of Regents has authorized the issuance of up to \$300,000,000 in commercial paper backed by a general revenue pledge. Outstanding commercial paper debt is converted to long-term debt financing, as appropriate, within the normal course of business.

During 2020, the University issued \$988,455,000 of General Revenue Bonds with a net original issue premium of \$37,567,000, which included \$138,430,000 of fixed rate, tax-exempt bonds Series 2020A and \$850,025,000 of fixed rate, taxable bonds Series 2020B. Total bond proceeds of \$1,026,022,000 were utilized to refund existing bonds of \$26,023,000 and provide \$149,700,000 for capital projects, \$848,063,000 for capital projects, refunding of debt and general purposes, and \$2,236,000 for debt issuance costs.

#### Notes to Consolidated Financial Statements—Continued

#### Note 6—Long-term Debt—Continued

Deferred outflows associated with the University's refunding activity totaled \$4,064,000 and \$6,078,000 at June 30, 2021 and 2020, respectively, which will be amortized into interest expense over the remaining life of the refunded bonds.

Debt obligations are generally callable by the University and mature at various dates through fiscal 2050. Principal maturities, including interest on debt obligations, based on scheduled bond maturities for the next five years and in subsequent five-year periods are as follows:

	Principal	Interest* (in thousands)	Total
2022 2023	\$ 220,430 81,010	\$ 97,256 95,361	\$ 317,686 176,371
2024	95,170	92,725	187,895
2025 2026	198,705 99,510	89,470 85,184	288,175 184,694
2027-2031	590,455	360,003	950,458
2032-2036 2037-2041	515,230 791,295	267,940 172,355	783,170 963,650
2042-2046 2047-2050	182,325 356,380	75,876 35,712	258,201 392,092
Total payments	3,130,510	\$ 1,371,882	\$ 4,502,392
Plus unamortized premiums	<u>183,528</u> \$ 3,314,038		

\* Interest on variable rate debt is estimated based on rates in effect at June 30, 2021; amounts do not reflect federal subsidies to be received for Build America Bonds interest

#### Notes to Consolidated Financial Statements—Continued

### Note 6—Long-term Debt—Continued

The University maintains certain unsecured lines of credit and standby bond purchase agreements that, in accordance with GASB requirements, do not qualify to support the noncurrent classification of variable rate bonds payable subject to remarketing. If all of the variable rate bonds subject to remarketing were put back to the University and these existing unsecured lines of credit and standby bond purchase agreements were not extended upon their current expiration dates, the total principal payments due in 2022 would decrease to \$204,785,000, total principal payments due in 2023 would increase to \$103,775,000, total principal payments due in 2024 would decrease to \$67,850,000, total principal payments due in 2025 would increase to \$366,408,000 and total principal payments due in 2026 would increase to \$283,732,000. Accordingly, principal payments due in subsequent years would be reduced to \$521,995,000 in 2027 through 2031, \$376,390,000 in 2032 through 2036, \$677,945,000 in 2037 through 2041 and \$171,250,000 in 2042 through 2046. Principal payments due in 2047 through 2050 would not change. There would not be a material impact on annual interest payments due to the low variable rate of interest on these bonds.

#### **Note 7—Derivative Instruments**

Derivatives held by the University are recorded at fair value in the statement of net position. For hedging derivative instruments that are effective in significantly reducing an identified financial risk, the corresponding change in fair value is deferred and included in the statement of net position. For all other derivative instruments, changes in fair value are reported as investment income or loss.

# Notes to Consolidated Financial Statements—Continued

# Note 7—Derivative Instruments—Continued

Derivative instruments held by the University at June 30, 2021 and 2020 are summarized as follows:

	2021		
	Notional		
	Amount	Fair Value	
	(in thou	isands)	
Investment derivative instruments:			
Investment portfolios:	\$ 97,399	\$ (432)	
Futures	\$ 97,399	\$ (432)	
Foreign currency forwards: Euro	193,416	(8,305)	
New Zealand dollar	144,792	4,769	
Swedish krona	165,644	(4,624)	
Canadian dollar	83,602	(4,456)	
Japanese Yen	240,261	3,250	
Australian dollar	140,630	3,241	
All other currencies	889,389	10,842	
	1,857,734	4,717	
Other	25,134	248	
	\$ 1,980,267	\$ 4,533	
Floating-to-fixed interest rate swaps on debt	\$ 48,815	\$ (4,982)	
Effective cash flow hedges:			
Floating-to-fixed interest rate swaps on debt	¢ 60.760	\$ (4.720)	
Proating-to-fixed interest fate swaps on debt	\$ 60,760	\$ (4,739)	
	20	20	
	Notional		
	Amount	Fair Value	
• · · • • • • · · ·	(in thou	isands)	
Investment derivative instruments:			
Investment portfolios:	¢ 20.057	¢ (6)	
Futures	\$ 29,957	\$ (6)	
Foreign currency forwards: Turkish lira	29,798	(8,074)	
Brazil real	7,959	5,592	
Norwegian krone	73,382	3,050	
Indian rupee	30,362	(2,995)	
Czech koruna	14,518	2,156	
Mexican peso	10,890	(2,035)	
All other currencies	542,244	4,431	
	709,153	2,125	
Other	14,082	(462)	
Other	14,082 \$ 753,192	(462) \$ 1,657	
Other Floating-to-fixed interest rate swaps on debt			
Floating-to-fixed interest rate swaps on debt	\$ 753,192	\$ 1,657	
	\$ 753,192	\$ 1,657	

#### Notes to Consolidated Financial Statements—Continued

#### Note 7—Derivative Instruments—Continued

The University utilizes bond futures in its investment portfolios to adjust the duration of cash equivalents and fixed income securities, while foreign currency forward contracts are utilized to settle securities and transactions denominated in foreign currencies and manage foreign exchange risk. Other derivative instruments in the University's investment portfolios consist primarily of interest rate swaps, credit default swaps and total return swaps used to carry out investment and portfolio strategies.

In connection with certain issues of variable rate debt, the University has entered into floating-tofixed interest rate swaps to convert all or a portion of the associated variable rate debt to synthetic fixed rates to protect against the potential of rising interest rates. The fair value of these swaps generally represent the estimated amount that the University would pay to terminate the swap agreements at the statement of net position date, taking into account current interest rates and creditworthiness of the underlying counterparty. The valuation inputs used to determine the fair value of these instruments are considered Level 2, as they rely on observable inputs other than quoted market prices. The notional amount represents the underlying reference of the instrument and does not represent the amount of the University's settlement obligations.

At June 30, 2021 and 2020, the fair value of floating-to-fixed interest rate swaps associated with the University's variable rate debt is (\$9,721,000) and (\$14,388,000), respectively, and is included in the statement of net position as a component of other liabilities. The deferred outflows associated with the fair value of swaps deemed effective cash flow hedges totaled \$3,550,000 and \$5,474,000 at June 30, 2021 and 2020, respectively.

The change in fair value of derivative instruments, which includes realized gains and losses on positions closed, for the years ended June 30, 2021 and 2020 is summarized as follows:

	2021	2020	
	(in thousands)		
Investment derivative instruments:			
Investment portfolios:			
Futures	\$ 25,502	\$ 25,144	
Foreign currency forwards	13,688	53,557	
Other	731	(28,758)	
	\$ 39,921	\$ 49,943	
Floating-to-fixed interest rate swaps on debt	\$ 2,219	\$ 234	
Effective cash flow hedges: Floating-to-fixed interest rate swaps on debt	\$ 2,448	\$ (927)	

# Notes to Consolidated Financial Statements—Continued

### Note 7—Derivative Instruments—Continued

The University's interest rate swaps, along with their associated variable rate debt and significant terms, are summarized below.

The floating-to-fixed interest rate swap associated with the Series 2008B General Revenue Bonds has a notional amount of \$36,000,000 and \$42,320,000 at June 30, 2021 and 2020, respectively, covering a portion of the principal outstanding and the notional amount decreases as principal on the underlying bonds is repaid. The University makes payments based on a fixed rate of 3.105 percent and receives variable rate payments from the swap counterparty based on 68 percent of the One-Month USD LIBOR, until the swap terminates in April 2026. The University has the option to terminate the swap upon five business days written notice and payment of the fair market compensation for the value of the swap. This swap is considered an effective hedge at June 30, 2021 and 2020 and has a fair value of (\$3,017,000) and (\$4,560,000), respectively.

The floating-to-fixed interest rate swap associated with the Series 2012D-2 General Revenue Bonds has a notional amount of \$24,760,000 and \$29,475,000 at June 30, 2021 and 2020, respectively, covering a portion of the principal outstanding and the notional amount decreases as principal on the underlying bonds is repaid. The University makes payments based on a fixed rate of 3.229 percent and receives variable rate payments from the swap counterparty based on 68 percent of the One-Month USD LIBOR, until the swap terminates in December 2025. The University has the option to terminate the swap upon five business days written notice and payment of the fair market compensation for the value of the swap. This swap is considered an effective hedge at June 30, 2021 and 2020 and has a fair value of (\$1,722,000) and (\$2,627,000), respectively.

The first floating-to-fixed interest rate swap associated with the Series 2012D-1 General Revenue Bonds has a notional amount of \$44,670,000 at both June 30, 2021 and 2020, covering a portion of the principal outstanding and the notional amount decreases as principal on the underlying bonds is repaid. The University makes payments based on a fixed rate of 4.705 percent and receives variable rate payments from the swap counterparty based on the floating Securities Industry and Financial Markets Association ("SIFMA") Municipal Index through the final maturity dates of the underlying bonds in December 2024. The counterparty has the option of terminating the swaps if for any 180-day period the average variable rate is more than 7.0 percent. During 2020, this swap was determined to be ineffective and was reclassified from an effective cash flow hedge to an investment derivative instrument. This swap has a fair value of (\$4,886,000) and (\$6,858,000) at June 30, 2021 and 2020, respectively.

The second floating-to-fixed interest rate swap associated with the Series 2012D-1 General Revenue Bonds has a notional amount of \$4,145,000 and \$8,090,000 at June 30, 2021 and 2020, respectively, covering a portion of the principal outstanding and the notional amount decreases

## Notes to Consolidated Financial Statements—Continued

# Note 7—Derivative Instruments—Continued

as principal on the underlying bonds is repaid. The University makes payments based on a fixed rate of 4.685 percent and receives variable rate payments based on the floating SIFMA Municipal Index through the final maturity dates of a portion of the underlying bonds in December 2021. The counterparty has the option of terminating the swaps if for any 180-day period the average variable rate is more than 7.0 percent. During 2020, this swap was determined to be ineffective and was reclassified from an effective cash flow hedge to an investment derivative instrument. This swap has a fair value of (\$96,000) and (\$343,000) at June 30, 2021 and 2020, respectively.

Using rates in effect at June 30, 2021, the projected cash flows for the floating-to-fixed interest rate swaps deemed effective cash flow hedges, along with the debt service requirements of the associated variable rate debt, are summarized as follows:

	Variable R	ate Bonds	Swap Payments,	Total
	Principal	Interest	Net	Payments
		(in tho	usands)	-
		<b>.</b>		
2022	\$ 11,490	\$ 19	\$ 1,741	\$ 13,250
2023	11,925	17	1,362	13,304
2024	12,410	15	971	13,396
2025	12,940	12	559	13,511
2026	12,045	10	157	12,212
2027-2030	40,930	13		40,943
	\$ 101,740	\$ 86	\$ 4,790	\$ 106,616

By using derivative financial instruments to hedge exposures to changes in interest rates, the University is exposed to termination risk and basis risk. There is termination risk with floating-to-fixed interest rate swaps as the University or swap counterparty may terminate a swap if the other party fails to perform under the terms of the contract or its credit rating falls below investment grade. Termination risk is the risk that the associated variable rate debt no longer carries a synthetic fixed rate and if at the time of termination a swap has a negative fair value, the University is liable to the counterparty for payment equal to the swap's fair value. The University is also exposed to basis risk as a portion of the variable payments paid to the University by the counterparties are based on a percentage of LIBOR. Basis risk is the risk that changes in the relationship between SIFMA and LIBOR may impact the synthetic fixed rate of the variable rate debt. At June 30, 2021 and 2020, the University is not exposed to credit risk as the swaps have negative fair values.

The University is subject to collateral requirements with its counterparties on certain derivative instrument positions. To meet trading margin requirements for bond futures, the University had cash and U.S. government securities with a fair value of \$7,477,000 and \$366,000 at June 30, 2021 and 2020, respectively, on deposit with its futures broker as collateral.

### Notes to Consolidated Financial Statements—Continued

#### Note 8—Self-Insurance

The University is self-insured for medical malpractice, workers' compensation, directors' and officers' liability, property damage, auto liability and general liability through Veritas Insurance Corporation. The University is also self-insured for various employee benefits through internally maintained funds.

Claims and expenses are reported when it is probable that a loss has occurred and the amount of the loss can be reasonably estimated. Those losses include an estimate of claims that have been incurred but not reported and the future costs of handling claims. These liabilities are generally based on actuarial valuations and are reported at present value, discounted at a rate of 5 percent.

Changes in the total reported liability for insurance and benefits obligations for the years ended June 30, 2021 and 2020 are summarized as follows:

	2021	2020
	(in tho	usands)
Balance, beginning of year	\$ 303,431	\$ 231,912
Claims incurred and changes in estimates	948,519	825,721
Claim payments	(812,102)	(754,202)
Balance, end of year	439,848	303,431
Less current portion	269,789	144,827
-	\$ 170,059	\$ 158,604

## Notes to Consolidated Financial Statements—Continued

## Note 9—Pension Plan

Metropolitan Hospital has a noncontributory, single-employer defined benefit pension plan, which covered substantially all employees prior to being frozen at December 31, 2007. The plan generally provides benefits based on each employee's years of service and final average earnings, as defined, and does not provide any automatic or ad-hoc cost of living adjustments. The Metropolitan Hospital Board of Directors has the authority to establish and amend benefit provisions of the plan.

The annual pension expense and net pension liability is actuarially calculated using the entry age normal level percent of pay method. Metropolitan Hospital has elected to measure the net pension liability one year prior to the fiscal year end reporting date and amounts measured at June 30, 2020 and 2019 were determined based on an actuarial valuation at October 1, 2019 and 2018, respectively. There are no significant changes known which would impact the net pension liability between the measurement date and the reporting date, other than typical plan experience.

For purposes of the June 30, 2020 and 2019 measurement dates, the number of plan participants consisted of the following:

	2020	2019
Active participants	493	545
Vested terminated participants	810	867
Retirees, beneficiaries and disabled participants	465	405
	1,768	1.817

#### Notes to Consolidated Financial Statements—Continued

## Note 9—Pension Plan—Continued

Changes in the reported net pension liability for the years ended June 30, 2021 and 2020 are summarized as follows:

	2021		
	<b>Total Pension</b>	Plan Fiduciary	Net Pension
	Liability	Net Position	Liability
		(in thousands)	-
Balance, beginning of year	\$ 75,964	\$ 77,211	\$ (1,247)
Interest cost	4,687		4,687
Changes in assumptions	(3,540)		(3,540)
Differences between expected and actual			
plan experience	(1,662)		(1,662)
Benefit payments	(7,714)	(7,714)	-
Contributions from the employer		900	(900)
Net investment income:			
Expected investment earnings		4,797	(4,797)
Differences between expected and actual			
investment earnings		(1,137)	1,137
Balance, end of year	\$ 67,735	\$ 74,057	\$ (6,322)

	2020		
	<b>Total Pension</b>	Plan Fiduciary	Net Pension
	Liability	Net Position	Liability
		(in thousands)	
Balance, beginning of year	\$ 74,209	\$ 77,127	\$ (2,918)
Interest cost	4,957		4,957
Changes in assumptions	3,713		3,713
Differences between expected and actual			
plan experience	(124)		(124)
Benefit payments	(6,791)	(6,791)	-
Contributions from the employer		1,244	(1,244)
Net investment income:			
Expected investment earnings		5,205	(5,205)
Differences between expected and actual			
investment earnings		426	(426)
Balance, end of year	\$ 75,964	\$ 77,211	\$ (1,247)

The plan fiduciary net position as a percentage of the total pension liability was 109 percent and 102 percent at June 30, 2021 and 2020, respectively.

#### Notes to Consolidated Financial Statements—Continued

#### Note 9—Pension Plan—Continued

Significant actuarial assumptions used at the June 30, 2020 and 2019 measurement dates are as follows:

	2020	2019
Discount rate	7.0%	6.5%
Inflation	2.0%	2.0%
Investment rate of return	7.0%	6.5%
Mortality table	Pri-2012, Scale MP-2019	RP-2014 Employee and Healthy
		Annuitant, Scale MP-2018

Discount rates are based on the expected rate of return on pension plan investments. The projection of cash flows used to determine the single discount rate for each fiscal year end assumed that employer contributions will be made based on the minimum contribution projection under provisions of ERISA and the Pension Protection Act of 2006, including MAP-21, for future years. Based on the stated assumptions, the pension plan's fiduciary net position and future contributions were sufficient to finance the future benefit payments of the current plan members for all projection years. As a result, the long-term expected rate of return on pension plan investments was applied to all periods of the projected benefit payments to determine the total pension liability.

The long-term expected rate of return on pension plan investments of 7.0 percent and 6.5 percent at June 30, 2020 and 2019, respectively, was determined using the expected future rates of return for the target asset allocation of the portfolio. The target allocation and best estimate geometric rates of return by asset class are summarized as follows:

		2020	2019		
	Portfolio Long-Term		Portfolio	Long-Term	
	Allocation	Expected Return	Allocation	Expected Return	
U.S. large cap	25.0%	7.9%	25.0%	6.4%	
U.S. mid cap	10.5%	8.6%	10.5%	7.2%	
U.S. small cap	6.5%	9.1%	6.5%	7.8%	
International developed	14.0%	6.2%	14.0%	5.1%	
Emerging market	9.0%	5.7%	9.0%	5.2%	
STRIPs	7.0%	4.6%	7.0%	4.5%	
Corporate 10+ year	28.0%	4.6%	28.0%	4.9%	

# Notes to Consolidated Financial Statements—Continued

#### Note 9—Pension Plan—Continued

A one-percentage point change in the discount rate would impact the reported net pension liability at June 30, 2021 and 2020 as follows:

	2021		2020	
	1% Decrease	1% Increase	1% Decrease	1% Increase
	(in thousands)			
Net pension liability	\$ 7,463	\$ (6,250)	\$ 8,757	\$ (7,292)

The components of pension (income) expense for the years ended June 30, 2021 and 2020 are summarized as follows:

	2021	2020	
	(in thousands)		
Interest cost Expected investment earnings Amortization of deferred outflows and deferred	\$ 4,687 (4,797)	\$ 4,957 (5,205)	
inflows	(1,139)	817	
	\$ (1,249)	\$ 569	

Deferred outflows and deferred inflows related to the reported net pension liability at June 30, 2021 and 2020 are summarized as follows:

	2021		20	20
	Deferred	Deferred	Deferred	Deferred
	Outflows	Inflows	Outflows	Inflows
	(in thousands)			
Changes in assumptions	\$ 526	\$ 2,021	\$ 2,119	\$ 44
Differences between expected and				
actual plan experience		966	217	70
Differences between expected and				
actual investment earnings	1,377	988	701	2,069
	1,903	3,975	3,037	2,183
Contributions made after measurement				
date	891		900	
	\$ 2,794	\$ 3,975	\$ 3,937	\$ 2,183

#### Notes to Consolidated Financial Statements—Continued

### Note 9—Pension Plan—Continued

Deferred outflows and deferred inflows related to changes in assumptions and differences between expected and actual experience will be recognized into expense in the following years ended June 30 based upon the average future work life expectancy of plan participants (in thousands):

2022	\$ (2,081)
2023	(361)
2024	142
2025	228
	\$ (2,072)

The inputs used to determine the fair value of the plan's investments reported at June 30, 2021 and 2020 are summarized as follows:

	2021				
				Total Fair	
	Level 1	Level 2	NAV	Value	
	(in thousands)				
<b>_</b>	<b>*</b> • • • • • •			<b>* * * * *</b>	
Equity securities	\$ 49,482			\$ 49,482	
Fixed income securities		\$ 24,326		24,326	
Nonmarketable					
alternative investments			\$ 249	249	
	\$ 49,482	\$ 24,326	\$ 249	\$ 74,057	
	2020				
				Total Fair	
	Level 1	Level 2	NAV	Value	
	(in thousands)				
Equity securities	\$ 52,917			\$ 52,917	
Fixed income securities		\$ 22,818		22,818	
Nonmarketable					
alternative investments			\$ 1,476	1,476	
	\$ 52,917	\$ 22,818	\$ 1,476	\$ 77,211	

# Notes to Consolidated Financial Statements—Continued

# Note 10—Postemployment Benefits

The University provides retiree health and welfare benefits, primarily medical, prescription drug, dental and life insurance coverage, to eligible retirees and their eligible dependents. Substantially all full-time regular University employees may become eligible for these benefits if they reach retirement age while working for the University. For employees retiring on or after January 1, 1987, contributions toward health and welfare benefits are shared between the University and the retiree and can vary based on date of hire, date of retirement, age and coverage elections.

The University also provides income replacement benefits, retirement savings contributions, and health and life insurance benefits to substantially all regular University employees that are enrolled in a University sponsored long-term disability plan and qualify, based on disability status while working for the University, to receive basic or expanded long-term disability benefits. Contributions toward the expanded long-term disability plan are shared between the University and employees and vary based on years of service, annual base salary and coverage elections. Contributions toward the basic long-term disability plan are paid entirely by the University.

These postemployment benefits are provided through single-employer plans administered by the University. The Executive Vice Presidents of the University have the authority to establish and amend benefit provisions of the plans.

Actuarial projections of postemployment benefits are based on the substantive plan (the plan as understood by the employer and the plan members) and include the types of benefits provided and announced future changes at the time of each valuation and the historical pattern of sharing benefit costs between the employer and plan members to that point.

The University's reported liability for postemployment benefits obligations is calculated using the entry age normal level percent of pay method. The University has elected to measure the total postemployment liability one year prior to the fiscal year end reporting date and amounts measured at June 30, 2020 and 2019 were determined based on an actuarial valuation at January 1, 2020 and 2019, respectively. There are no significant changes known which would impact the total postemployment liability between the measurement date and the reporting date, other than typical plan experience.

# Notes to Consolidated Financial Statements—Continued

# Note 10—Postemployment Benefits—Continued

For purposes of the June 30, 2020 and 2019 measurement dates, the number of plan participants consisted of the following:

	2020		2019	
	Retiree Health and Welfare	Long-term Disability	Retiree Health and Welfare	Long-term Disability
Active employees Retirees receiving benefits Surviving spouses Participants receiving	44,746 11,125 883	38,181	43,380 10,785 898	37,042
disability benefits		555		560
-	56,754	38,736	55,063	37,602

### Notes to Consolidated Financial Statements—Continued

### Note 10—Postemployment Benefits—Continued

Changes in the reported total liability for postemployment benefits obligations for the years ended June 30, 2021 and 2020 are summarized as follows:

		2021	
	Retiree Health	Long-term	
	and Welfare	Disability	Total
		(in thousands)	
Balance, beginning of year	\$ 3,172,947	\$ 304,541	\$ 3,477,488
Service cost	118,293	33,632	151,925
Interest cost	114,122	11,299	125,421
Changes in assumptions	713,614	17,606	731,220
Differences between expected and			
actual plan experience	26,070	(7,294)	18,776
Benefit payments	(61,750)	(30,934)	(92,684)
Balance, end of year	4,083,296	328,850	4,412,146
Less current portion	62,869	32,712	95,581
	\$ 4,020,427	\$ 296,138	\$ 4,316,565
		2020	
	Retiree Health	Long-term	
	and Welfare	Disability	Total
		(in thousands)	
Balance, beginning of year	\$ 2,815,041	\$ 299,014	\$ 3,114,055
Service cost	102,097	32,018	134,115
Interest cost	111,804	12,219	124,023
Changes in assumptions	156,047	(1,270)	154,777
Differences between expected and			
actual plan experience	44,773	(6,543)	38,230
Benefit payments	(56,815)	(30,897)	(87,712)
	(50,015)		
Balance, end of year	3,172,947	304,541	3,477,488
			3,477,488 92,684

Since a portion of retiree medical services will be provided by the University's health system, the reported liability for postemployment benefits obligations is net of the related margin and fixed costs associated with providing those services which totaled \$794,964,000 and \$628,624,000 at June 30, 2021 and 2020, respectively.

### Notes to Consolidated Financial Statements—Continued

### Note 10—Postemployment Benefits—Continued

The University's liability for postemployment benefits obligations is not reduced by the anticipated Medicare Retiree Drug Subsidy for future periods. This subsidy would reduce the total postemployment benefits liability by approximately \$443,000,000 and \$353,000,000 at June 30, 2021 and 2020, respectively.

Assets used to fund postemployment benefits are not maintained in a separate legal trust. The University has no obligation to make contributions in advance of when insurance premiums or claims are due for payment and currently pays for postemployment benefits on a pay-as-you-go basis. The University's reported postemployment benefits obligations at June 30, 2021 and 2020 as a percentage of covered payroll of \$4,255,709,000 and \$4,214,627,000 were 104 percent and 83 percent, respectively.

Significant actuarial assumptions used at the June 30, 2020 and 2019 measurement dates are as follows:

	2020	2019
Discount rate*	2.21%	3.50%
Inflation rate	2.00%	2.00%
Immediate/ultimate administrative trend rate	0.0%/3.0%	0.0%/3.0%
Immediate/ultimate medical trend rate	6.0%/4.5%	6.0%/4.5%
Immediate/ultimate Rx trend rate	7.25%/4.5%	7.5%/4.5%
Increase in compensation rate**	0.0%/0.0%/3.75%	4.00%
Mortality table***	PUB-2010 Teachers Head	PUB-2010 Teachers Head
	Count Table, Scale MP-2019	Count Table, Scale MP-2018
Average future work life expectancy (years):		
Retiree health and welfare	9.04	9.03
Long-term disability	11.46	11.34

\* Bond Buyer 20-year General Obligation Municipal Bond Index as of the last publication of the measurement period

\*\* Beginning with the June 30, 2020 measurement date, estimates are provided for faculty, staff and union employees

\*\*\* Based on the University's study of mortality experience from 2015-2019

### Notes to Consolidated Financial Statements—Continued

# Note 10—Postemployment Benefits—Continued

A one-percentage point change in the discount rate and assumed health care cost trend rates would impact the reported total liability for postemployment benefits obligations at June 30, 2021 and 2020 as follows:

	20	21	20	20
	1% Decrease	1% Increase	1% Decrease	1% Increase
		(in tho	usands)	
Discount rate: Retiree health and welfare Long-term disability	\$ 948,617 \$ 12,530	\$ (726,846) \$ (10,140)	\$ 692,685 \$ 10,615	\$ (534,811) \$ (10,820)
Health care cost trend rates: Retiree health and welfare Long-term disability	\$ (807,936) \$ (17,191)	\$ 1,102,842 \$ 17,486	\$ (588,152) \$ (10,598)	\$ 793,519 \$ 10,829

The components of postemployment benefits expense for the years ended June 30, 2021 and 2020 are summarized as follows:

		2021	
	Retiree Health and Welfare	Long-term Disability	Total
		(in thousands)	
Service cost Interest cost Amortization of deferred outflows	\$ 118,293 114,122	\$ 33,632 11,299	\$ 151,925 125,421
and deferred inflows	82,332	3,346	85,678
	\$ 314,747	\$ 48,277	\$ 363,024

		2020	
	Retiree Health	Long-term	
	and Welfare	Disability	Total
		(in thousands)	
Service cost	\$ 102,097	\$ 32,018	\$ 134,115
Interest cost	111,804	12,219	124,023
Amortization of deferred outflows			
and deferred inflows	508	2,446	2,954
	\$ 214,409	\$ 46,683	\$ 261,092

### Notes to Consolidated Financial Statements—Continued

### Note 10—Postemployment Benefits—Continued

Deferred outflows and deferred inflows related to the reported total liability for postemployment benefits obligations at June 30, 2021 and 2020 are summarized as follows:

	20	21	20	20
	Deferred	Deferred	Deferred	Deferred
	Outflows	Inflows	Outflows	Inflows
		(in thou	usands)	
Changes in assumptions Differences between expected	\$ 905,690	\$ 329,105	\$ 300,209	\$ 384,678
and actual plan experience	111,758	16,253	102,910	10,669
	1,017,448	345,358	403,119	395,347
Benefit payments made after				
measurement date	95,581		92,684	
	\$ 1,113,029	\$ 345,358	\$ 495,803	\$ 395,347

Deferred outflows and deferred inflows related to changes in assumptions and the differences between expected and actual plan experience will be recognized into expense in the following years ended June 30 based upon the average future work life expectancy of plan participants (in thousands):

2022	\$ 85,678
2023	85,678
2024	85,678
2025	85,678
2026	73,656
2027 and beyond	255,722
	\$ 672,090

### Notes to Consolidated Financial Statements—Continued

### Note 11—Retirement Plan

The University has a defined contribution retirement plan for all qualified employees through TIAA and Fidelity Management Trust Company ("FMTC") mutual funds. All regular and supplemental instructional and primary staff are eligible to participate in the plan based upon age and service requirements. Participants maintain individual contracts with TIAA, or accounts with FMTC, and are fully vested.

For payroll covered under the plan, eligible employees generally contribute 5 percent of their pay and the University generally contributes 10 percent of employees' pay to the plan. The University contribution commences after an employee has completed one year of employment. Participants may elect to contribute additional amounts to the plans within specified limits that are not matched by University contributions. Contributions and covered payroll under the plan (excluding participants' additional contributions) for the years ended June 30, 2021 and 2020 are summarized as follows:

	2021	2020
	(in thou	usands)
University contributions Employee contributions Payroll covered under plan Total payroll	\$ 264,244 \$ 170,622 \$ 4,255,709 \$ 4,400,615	\$ 324,186 \$ 169,014 \$ 4,214,627 \$ 4,389,523

# Notes to Consolidated Financial Statements—Continued

# Note 12—Net Position

The composition of net position at June 30, 2021 and 2020 is summarized as follows:

	2021	2020
	 (in thou	usands)
Net investment in capital assets	\$ 3,677,053	\$ 3,767,199
Restricted: Nonexpendable:		
Permanent endowment corpus	2,625,459	2,483,225
Expendable:		
Net appreciation of permanent endowments	3,684,197	2,055,430
Funds functioning as endowment	2,973,422	2,259,664
Restricted for operations and other	924,677	851,709
Unrestricted	5,622,372	3,109,773
	\$ 19,507,180	\$ 14,527,000

Unrestricted net position is not subject to externally imposed stipulations; however, it is subject to internal restrictions. For example, unrestricted net position may be designated for specific purposes by action of management or the Board of Regents. At June 30, 2021 and 2020, substantially all of the unrestricted net position has been designated for various academic programs, research initiatives and capital projects.

## Note 13—Federal Direct Lending Program

The University distributed \$311,608,000 and \$316,410,000 during the years ended June 30, 2021 and 2020, respectively, for student loans through the U.S. Department of Education ("DoED") Federal Direct Lending Program. These distributions and related funding sources are not included as expenses and revenues in the accompanying financial statements. The statement of net position includes a receivable of \$1,065,000 and \$1,604,000 at June 30, 2021 and 2020, respectively, for DoED funding received subsequent to distribution.

### Notes to Consolidated Financial Statements—Continued

### Note 14—Commitments and Contingencies

Authorized expenditures for construction and other projects unexpended at June 30, 2021 were \$1,130,427,000. Of these expenditures, the University expects that \$1,033,751,000 will be funded by internal sources, gifts, grants and proceeds from borrowings; \$44,225,000 by the State Building Authority and the remaining \$52,451,000 will be funded using unexpended bond proceeds.

Under the terms of various limited partnership agreements approved by the Board of Regents or University officers, the University is obligated to make periodic payments for advance commitments to venture capital, private equity, real estate, natural resources and absolute return strategies. At June 30, 2021, the University had committed, but not paid, a total of \$4,622,311,000 in funding for these alternative investments. Based on historical capital calls and discussions with those managing the limited partnerships, outstanding commitments for such investments are anticipated to be paid in the following years ended June 30 (in thousands):

2022	\$ 1,703,560
2023	1,078,304
2024	594,724
2025	464,645
2026	285,849
2027 and beyond	495,229
	\$ 4,622,311

These commitments are generally able to be called prior to an agreed commitment expiration date and therefore may occur earlier or later than estimated.

The University has entered into capital and operating leases for certain space and equipment, which expire at various dates through 2039. Outstanding commitments for these leases are expected to be paid in the following years ended June 30:

-	Capital	Operating	
-	(in thousands)		
2022	\$ 8,310	\$ 46,027	
2022	\$ 0,310 8,392	40,038	
2024	8,280	35,771	
2025	8,482	31,992	
2026	8,619	21,435	
2027-2031	45,572	46,828	
2032-2036	38,376	16,984	
2037-2039	9,936		
	135,967	\$ 239,075	
Less amount representing interest	58,076		
Present value of minimum lease payments	\$ 77,891		

# Notes to Consolidated Financial Statements—Continued

# Note 14—Commitments and Contingencies—Continued

Operating lease expenses totaled \$48,247,000 and \$49,215,000 in 2021 and 2020, respectively.

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

The University is a party to various pending legal actions and other claims in the normal course of business, and is of the opinion that the outcome of these proceedings will not have a material adverse effect on its financial position.

The University has been served with complaints (or waived service) in cases brought by plaintiffs who allege that Robert Anderson, a former University doctor who died in 2008, sexually assaulted them decades ago. The extent of the impact to the University's financial position and results of operations arising from these complaints cannot be fully determined at this time.

The COVID-19 pandemic and related actions taken by federal and state governments in response may materially impact the University's financial position and its results of operations, including those related to instruction, research, patient care and other auxiliary activities. While the University continues to design and execute plans to mitigate these risks, the extent of the impact to the University will depend on future developments beyond its control, including the overall duration and spread of the outbreak, and cannot be fully determined at this time.

Event Subsequent to the Original Issuance of the Financial Statements (Unaudited): On January 18, 2022, the University and attorneys for approximately 1,050 claimants who alleged abuse by the late University doctor Robert Anderson reached a settlement agreement that would resolve those survivors' claims against the University pending documentation and approval by the Board of Regents; the claimants, as recommended by their attorneys; and the federal court overseeing the process. The total amount for the settlement is \$490,000,000. Of that total, \$460,000,000 will be available to the approximately 1,050 claimants, and \$30,000,000 would be reserved for future claimants who choose to participate in the settlement before July 31, 2023.

# Notes to Consolidated Financial Statements—Continued

# Note 15—Operating Expenses by Function

Operating expenses by functional classification for the years ended June 30, 2021 and 2020 are summarized as follows:

			2021		
	Compensation	Supplies		Scholarships	
	and	and		and	
	Benefits	Services	Depreciation (in thousands)	Fellowships	Total
Instruction	\$ 1,092,866	\$ 82,550			\$ 1,175,416
Research	616,727	236,466			853,193
Public service	191,972	95,896			287,868
Academic support	310,667	49,516			360,183
Student services	107,156	24,979			132,135
Institutional support	191,449	165,771			357,220
Operations and maintenance of					
plant	93,937	177,968			271,905
Auxiliary enterprises	3,532,681	1,781,221			5,313,902
Depreciation			\$ 566,848		566,848
Scholarships and fellowships				\$ 200,431	200,431
	\$ 6,137,455	\$ 2,614,367	\$ 566,848	\$ 200,431	\$ 9,519,101

			2020		
	Compensation	Supplies		Scholarships	
	and	and		and	
	Benefits	Services	Depreciation	Fellowships	Total
			(in thousands)		
Instruction	\$ 1,074,171	\$ 130,602			\$ 1,204,773
Research	603,920	258,893			862,813
Public service	137,962	68,472			206,434
Academic support	294,759	65,199			359,958
Student services	106,563	25,959			132,522
Institutional support	209,173	78,203			287,376
Operations and maintenance of					
plant	91,458	232,618			324,076
Auxiliary enterprises	3,531,907	1,714,668			5,246,575
Depreciation			\$ 566,694		566,694
Scholarships and fellowships				\$ 173,073	173,073
	\$ 6,049,913	\$ 2,574,614	\$ 566,694	\$ 173,073	\$ 9,364,294

# Notes to Consolidated Financial Statements—Continued

### Note 16—UM Health

Condensed financial information for UM Health, a blended component unit, before the elimination of certain intra-University transactions, at and for the years ended June 30, 2021 and 2020 is as follows:

	2021	2020
	(in thou	sands)
Condensed Statement of Net Position		
Assets:	<b>* 1 * * * *</b>	¢ 100 100
Current assets	\$ 126,853	\$ 128,493
Noncurrent assets	296,484	265,182
Total assets	423,337	393,675
Deferred outflows	2,589	5,535
Liabilities:		
Current liabilities	87,493	86,184
Noncurrent liabilities	210,574	220,892
Total liabilities	298,067	307,076
Deferred inflows	6,288	4,662
Net position:		
Net investment in capital assets	61,043	31,229
Restricted:	01,015	51,225
Nonexpendable	682	682
Expendable	14,853	14,252
Unrestricted	44,993	41,309
Total net position	\$ 121,571	\$ 87,472
Condensed Statement of Revenues, Expenses and Changes in Net Position		
Operating revenues	\$ 508,348	\$ 465,138
Operating expenses other than depreciation expense	459,556	439,535
Depreciation expense	22,459	21,195
Operating income	26,333	4,408
Nonoperating (expenses) revenues, net	(2,855)	9,144
Other expenses, net	(2,379)	(4,572)
Net revenues before transfers	21,099	8,980
Transfers from other University units	13,000	
Increase in net position	34,099	8,980
Net position, beginning of year	87,472	78,492
Net position, end of year	\$ 121,571	\$ 87,472
Condensed Statement of Cash Flows		
Net cash provided by operating activities	\$ 37,892	\$ 71,492
Net cash provided by noncapital financing activities	2,463	36,339
Net cash used in capital and related financing activities	(56,575)	(44,128)
Net cash provided by (used in) investing activities	4,939	(1,220)
Net (decrease) increase in cash and cash equivalents	(11,281)	62,483
Cash and cash equivalents, beginning of year	68,660	6,177
Cash and cash equivalents, end of year	\$ 57,379	\$ 68,660

# **Required Supplementary Information (Unaudited)**

# **Pension Plan**

Changes in the reported net pension liability for the years ended June 30 are summarized as follows (amounts in thousands):

2021	2020	2019	2018	2017
\$ 4,687	\$ 4,957	\$ 4,930	\$ 5,013	\$ 4,482
(3,540)	3,713	(273)	(822)	(24,906)
(1,662)	(124)	1,361	(767)	2,067
(7,714)	(6,791)	(4,489)	(4,712)	(4,089)
(8,229)	1,755	1,529	(1,288)	(22,446)
75,964	74,209	72,680	73,968	96,414
\$ 67,735	\$ 75,964	\$ 74,209	\$ 72,680	\$ 73,968
\$ (7,714)	\$ (6,791)	\$ (4,489)	\$ (4,712)	\$ (4,089)
900	1,244	1,047	2,171	2,903
4,797	5,205	5,234	4,848	3,166
(1,137)	426	(1,168)	3,664	1,316
(3,154)	84	624	5,971	3,296
77,211	77,127	76,503	70,532	67,236
\$ 74,057	\$ 77,211	\$ 77,127	\$ 76,503	\$ 70,532
\$ (6,322)	\$ (1,247)	\$ (2,918)	\$ (3,823)	\$ 3,436
109%	102%	104%	105%	95%
	\$ 4,687 (3,540) (1,662) (7,714) (8,229) 75,964 \$ 67,735 \$ (7,714) 900 4,797 (1,137) (3,154) 77,211 \$ 74,057 \$ (6,322)	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

# **Required Supplementary Information (Unaudited)**—Continued

## **Pension Plan—Continued**

Employer contributions in relation to actuarially determined contributions for the years ended June 30 are as follows:

	Employer Contributions*	Actuarially Determined Contributions (in thousands)	(Deficient) Excess Contributions		
2021	\$ 891	\$ 2,133	\$ (1,242)		
2020	\$ 900	\$ 1,336	\$ (436)		
2019	\$ 1,244	\$ 393	\$ 851		
2018	\$ 1,047	\$ 1,622	\$ (575)		
2017	\$ 2,171	\$ 1,754	\$ 417		

\* Reflects no employer contributions after April 30 of the respective fiscal year

Significant methods and assumptions used to calculate the actuarially determined contributions for the years ended June 30 are as follows:

Actuarially determined contributions	Pension P actuarially	Protection Act of	2006 (including M	der the provisions of MAP-21, HATFA t the IRC Section	and BBA). The
Contributions in relation to actuarially determined contributions	plan year	is generally 81/2 m	onths after the end	imum required com of the plan year. Fo une 15 of the follow	or the plan years
Actuarial cost method	Unit Credi	it method			
Asset valuation method	24-month	smoothed value of	assets		
Interest rate	•	First	Second	Third	Effective
		Segment Rate	Segment Rate	Segment Rate	Rate
	2021	3.74%	5.35%	6.11%	5.57%
	2020	3.92%	5.52%	6.29%	5.73%
	2019	4.16%	5.72%	6.48%	5.94%
	2018	4.16%	5.72%	6.48%	5.93%
	2017	4.43%	5.91%	6.65%	6.13%
Mortality	Tables pre	scribed by the Sec	retary of Treasury.		

# **Required Supplementary Information (Unaudited)**—Continued

# **Postemployment Benefits**

The historical reconciliation of the reported total liability for postemployment benefits obligations for the years ended June 30 is summarized as follows (amounts in thousands):

	2021	2020	
Service cost Interest cost Changes in assumptions Differences between expected and	\$ 151,925 125,421 731,220	\$ 134,115 124,023 154,777	
actual plan experience	18,776	38,230	
Benefit payments	(92,684)	(87,712)	
Net change	\$ 934,658	\$ 363,433	
Total liability, end of year Covered employee payroll Total liability as a percentage of covered employee payroll	\$ 4,412,146 \$ 4,255,709 104%	\$ 3,477,488 \$ 4,214,627 83%	
employee payron	10470	0370	
	2019	2018	2017
Service cost Interest cost Changes in assumptions	<b>2019</b> \$ 141,933 121,800 (383,315)	<b>2018</b> \$ 143,787 94,153 (107,874)	<b>2017</b> \$ 122,073 108,561 255,041
Interest cost	\$ 141,933 121,800	\$ 143,787 94,153	\$ 122,073 108,561
Interest cost Changes in assumptions Differences between expected and actual plan experience Benefit payments	\$ 141,933 121,800 (383,315) 17,535 (87,638)	\$ 143,787 94,153 (107,874) 52,721 (77,374)	\$ 122,073 108,561 255,041 14,028 (72,302)

Discount rates used in determining the reported total liability for postemployment benefits obligations at June 30 are as follows:

2021	2.21%
2020	3.50%
2019	3.87%
2018	3.58%
2017	2.85%
2016	3.80%

Cluster Title/Federal Grantor/Program	Type Pass-Through Gran	or Award Identifier	Assistance Listing Number	Assistance Listing Program Title	Federa	l Expenditures	Passed-Throug to Subrecipient
STUDENT FINANCIAL ASSISTANCE CLUSTER							
Education, Department of	Direct		84.007	Federal Supplemental Educational Opportunity Grant	\$	3,963,869	s -
Education, Department of	Direct		84.033	Federal Work-Study Program	\$	4,664,277	s -
Education, Department of	Direct		84.038	Federal Perkins Loan Program Federal Capital Contributions - Balance Outstanding at Beginning of Year	ç	42,188,340	¢
Education, Department of	Direct		84.063	Federal Pell Grant Program	\$	53,000,825	
Education, Department of	Direct		84.268	William D. Ford Federal Direct Loan Program	\$	311,608,072	
	<b>D</b> . (		84.379	Teacher Education Assistance for College and Higher	¢	45,572	
Education, Department of	Direct		84.379	Education Grants (TEACH Grants) Postsecondary Education Scholarships for Veteran's	\$	45,572	- •
Education, Department of	Direct		84.408	Dependents	\$	5,983	s -
		Total Education, Department of			\$	415,476,938	ş -
				Nurse Faculty Loan Program (NFLP) - Balance Outstanding at	r		
Health and Human Services, Department of	Direct		93.264	Beginning of Year	\$	3,909,049	s -
Health and Human Services, Department of	Direct		93.264	Nurse Faculty Loan Program (NFLP) - New Loans		917,566	_
					\$	4,826,615	<u>s -</u>
				Health Professions Student Loans, Including Primary Care Loans/Loans for Disadvantaged Students - Balance			
Health and Human Services, Department of	Direct		93.342	Outstanding at Beginning of Year	\$	10,361,203	s -
				Health Professions Student Loans, Including Primary Care			
Health and Human Services, Department of	Direct		93.342	Loans/Loans for Disadvantaged Students - New Loans	<u></u>	1,729,372	-
				Nursing Student Loans - Balance Outstanding at Beginning of	\$	12,090,575	s -
Health and Human Services, Department of	Direct		93.364	Year	\$	1,772,890	s -
Health and Human Services, Department of	Direct		93.364	Nursing Student Loans - New Loans		459,756	-
					\$	2,232,646	\$ -
				Scholarships for Health Professions Students from Disadvantaged Backgrounds - Balance Outstanding at			
Health and Human Services, Department of	Direct		93.925	Beginning of Year	\$	4,902,074	s -
· · ·				Scholarships for Health Professions Students from			
Health and Human Services, Department of	Direct		93.925	Disadvantaged Backgrounds - New Loans	<u></u>	473,382	-
		Total Health and Human Services, Depa	rtment of		\$ \$	5,375,456 24,525,292	
		Four Health and Human Services, Depa	in unione of			/	
		Total student financial assistance clust	er		\$	440,002,230	<u>s</u> -
ECONOMIC DEVELOPMENT CLUSTER							
Commerce, Department of D	Direct	ED20CHI3070040	11.307	Economic Adjustment Assistance	\$	98,884	s -
		Total economic development cluster			\$	98,884	s -
HIGHNAY BLANNING AND CONSTRUCTION OF							
HIGHWAY PLANNING AND CONSTRUCTION CLU Transportation, Department of P	JSTER ass-Through Michigan, State of, Transportation, Department of	2014-0006/Job 122203	20.205	Highway Planning and Construction	\$	2,587	s _
	ass-Through Michigan, State of, Transportation, Department of	2020-0006	20.205	Highway Planning and Construction	Ψ	41,684	-
		Total highway planning and constructi	ion cluster		\$	44,271	s -
HIGHWAY SAFETY CLUSTER							
	ass-Through Michigan, State of, State Police	TR-20-05	20.600	State and Community Highway Safety	\$	155,611	s -
Transportation, Department of P	ass-Through Michigan, State of, State Police	TR-21-05	20.600	State and Community Highway Safety		397,769	-
				National Priority Safety Programs	\$ \$	553,380 21,426	s -
Transportation Doportment of D	lass Through Michigan State of State Dalias		20.616			21,420	· -
Transportation, Department of P	ass-Through Michigan, State of, State Police	TR-20-03	20.616	National Priority Safety Programs	¢	,	
Transportation, Department of P	ass-Through Michigan, State of, State Police	TR-20-03 Total highway safety cluster	20.616	National Friding Safety Frograms	\$	574,806	s -
	ass-Through Michigan, State of, State Police		20.616	ivational Fliolity Sately Flograns		574,806	s -
TRIO CLUSTER	ass-Through Michigan, State of, State Police Direct		20.616 84.042	TRIO Student Support Services		<b>574,806</b>	<mark>s -</mark> s -
TRIO CLUSTER Education, Department of D		Total highway safety cluster					s -
TRIO CLUSTER Education, Department of D	Direct	Total highway safety cluster P042A201230	84.042	TRIO Student Support Services	<b>\$</b>	138,689	\$ - \$ -
TRIO CLUSTER Education, Department of D Education, Department of D	Direct	Total highway safety cluster P042A201230 P047M170268	84.042	TRIO Student Support Services	<b>\$</b> \$	138,689 310,325	\$ - \$ -
TRIO CLUSTER Education, Department of D Education, Department of D HEAD START CLUSTER	Direct	Total highway safety cluster P042A201230 P047M170268 Total trio cluster	84.042 84.047	TRIO Student Support Services TRIO Upward Bound	\$ \$ \$	138,689 310,325 449,014	\$ - \$ -
TRIO CLUSTER Education, Department of E Education, Department of D HEAD START CLUSTER Health and Human Services, Department of D	Direct	Total highway safety cluster P042A201230 P047M170268 Total trio cluster 90YR0111-01-00	84.042 84.047 93.600	TRIO Student Support Services TRIO Upward Bound Head Start	<b>\$</b> \$	138,689 310,325 449,014	\$ - \$ -
TRIO CLUSTER         Education, Department of       D         Education, Department of       D         HEAD START CLUSTER         Health and Human Services, Department of       D         Health and Human Services, Department of       P	Direct Direct Direct ass-Through Wayne State University	Total highway safety cluster           P042A201230           P047M170268           Total trio cluster           90YR0111-01-00           90YR0111-02-00           90YR0111-02-00           90YR0092	84.042 84.047	TRIO Student Support Services TRIO Upward Bound	\$ \$ \$	138,689 310,325 449,014 477 15,228 (116)	\$ - \$ -
TRIO CLUSTER         Education, Department of       D         Education, Department of       D         HEAD START CLUSTER         Health and Human Services, Department of       D         Health and Human Services, Department of       P	Direct Direct Direct	<b>Total highway safety cluster</b> P042A201230 P047M170268 <b>Total trio cluster</b> 90YR0111-01-00 90YR0111-02-00	84.042 84.047 93.600 93.600	TRIO Student Support Services TRIO Upward Bound Head Start Head Start	\$ \$ \$	138,689 310,325 449,014 477 15,228	\$ - \$ -
TRIO CLUSTER         Education, Department of       D         Education, Department of       D         HEAD START CLUSTER         Health and Human Services, Department of       D         Health and Human Services, Department of       P	Direct Direct Direct ass-Through Wayne State University	Total highway safety cluster           P042A201230           P047M170268           Total trio cluster           90YR0111-01-00           90YR0111-02-00           90YR0111-02-00           90YR0092	84.042 84.047 93.600 93.600 93.600	TRIO Student Support Services TRIO Upward Bound Head Start Head Start Head Start	\$ \$ \$	138,689 310,325 449,014 477 15,228 (116)	<u>s</u> - <u>s</u> - s - -

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MEDICAID CLUSTER

			Assistance Listi	ing		Passed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	20202764-Project R	93.778	Medical Assistance Program	\$ 40,275	
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20180672-001	93.778	Medical Assistance Program	(25,951)	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20182971-00	93.778	Medical Assistance Program	(178)	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20192401-00	93.778	Medical Assistance Program	(1,972)	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20192406-00	93.778	Medical Assistance Program	(4,199)	
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20192435-001/Proj. AT	93.778	Medical Assistance Program	(8,437)	
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20192438-00	93.778	Medical Assistance Program	(3,195)	
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20192441-00	93.778	Medical Assistance Program	(15)	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20192539-002	93.778	Medical Assistance Program	(2,518)	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of Pass-Through Michigan, State of, Health and Human Services, Department of	E20193007-001 E20193009-00	93.778 93.778	Medical Assistance Program Medical Assistance Program	(903) 12,442	-
		E20193009-00 E20193074-002	93.778	Medical Assistance Program	12,442	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20193074-002 E20193400-00 CF	93.778		(3,407)	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of Pass-Through Michigan, State of, Health and Human Services, Department of	E20193400-00 CF E20202413-Project AH	93.778	Medical Assistance Program Medical Assistance Program	(3,407) 14,574	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202413-Hojeet AL	93.778	Medical Assistance Program	151,838	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202414110jeet AE E20202415-Project AM	93.778	Medical Assistance Program	59,620	
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202520-00 Proj BJ	93.778	Medical Assistance Program	55,830	
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202520-00 110j E3 E20202761-Project I	93.778	Medical Assistance Program	34,539	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202766-00 Y	93.778	Medical Assistance Program	141,708	2,016
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202767-Project Z	93.778	Medical Assistance Program	32,261	2,010
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202768-Project AF	93.778	Medical Assistance Program	5,302	
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202769-00 Proj AO	93.778	Medical Assistance Program	79,673	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202709-00 FI0J AO E20202771-00/BD	93.778	Medical Assistance Program	11,806	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202772/Project BO	93.778	Medical Assistance Program	33,062	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202775-Project BX	93.778	Medical Assistance Program	265,336	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202776-Project CA	93.778	Medical Assistance Program	93,645	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202901-Project M	93.778	Medical Assistance Program	159,881	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202903-Project AG	93.778	Medical Assistance Program	16,731	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203065-Project AQ	93.778	Medical Assistance Program	3,176	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203108-Project AI	93.778	Medical Assistance Program	38,593	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203109-Project AK	93.778	Medical Assistance Program	82,281	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203277-Project BH	93.778	Medical Assistance Program	39,304	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203374-00/Proj AW	93.778	Medical Assistance Program	398,530	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203375-Project AA	93.778	Medical Assistance Program	27,047	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203377 / Project Q	93.778	Medical Assistance Program	10.079	
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203602-00 CK	93.778	Medical Assistance Program	47,341	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203791-00 Proj CP	93.778	Medical Assistance Program	9,793	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203800-00 / Project CM	93.778	Medical Assistance Program	24,192	
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203819-00 / Project CO	93.778	Medical Assistance Program	123,699	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20204126-00 CS	93.778	Medical Assistance Program	22,683	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20204607-00 / Project CT	93.778	Medical Assistance Program	24,172	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E2020758-Project B	93.778	Medical Assistance Program	31,158	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E2020760-Project F	93.778	Medical Assistance Program	28,366	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20211882-00 C	93.778	Medical Assistance Program	67,151	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20211002-00 C	93.778	Medical Assistance Program	435,813	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20212558-002 G	93.778	Medical Assistance Program	56,936	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20212560-002 AB	93.778	Medical Assistance Program	163,003	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20212561-001 AE	93.778	Medical Assistance Program	348,642	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20212562-00 AF	93.778	Medical Assistance Program	98,515	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20212564-00 AZ	93.778	Medical Assistance Program	2,621	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20212716-002 BC	93.778	Medical Assistance Program	92,053	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20212717-003 BG	93.778	Medical Assistance Program	1,050,843	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20212718-002 BM	93.778	Medical Assistance Program	143,075	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213442-00 Z	93.778	Medical Assistance Program	105,269	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213443-002 AN	93.778	Medical Assistance Program	1,219,836	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213600-002 BQ	93.778	Medical Assistance Program	422,574	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213681-00 D	93.778	Medical Assistance Program	83,242	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213683-00 P	93.778	Medical Assistance Program	97,118	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213685-002 S	93.778	Medical Assistance Program	85,918	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213686-00 AA	93.778	Medical Assistance Program	58,990	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213687-00 AI	93.778	Medical Assistance Program	200,348	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213733-001 BE	93.778	Medical Assistance Program	114,942	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213802-00 BI	93.778	Medical Assistance Program	203,541	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213812-00 B	93.778	Medical Assistance Program	62,476	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213814-00 AK	93.778	Medical Assistance Program	19,415	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213014-00 AR E20214063-001 BT	93.778	Medical Assistance Program	367,446	4,032
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20214064-00 BX	93.778	Medical Assistance Program	1,627	,
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20214182-00 CA	93.778	Medical Assistance Program	38,082	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20214183-00 BW	93.778	Medical Assistance Program	29,205	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20214105-00 DW E20214980-00 CH	93.778	Medical Assistance Program	1,296	_
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20214989-00 CL	93.778	Medical Assistance Program	8,003	_

Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Assistance Listing Number	Assistance Listing Program Title	Federa	ras I Expenditures to S	sed-Throuş ubrecipien
	- , , , , , , , , , , , , , , , , , , ,		Total medicaid cluster		· · · · · · · · · · · · · · · · · · ·	\$	7,647,319 \$	6,04
ESEARCH AND DEVELOPMENT CLUSTER								
eace Corps	Direct		1145PC20P0054	8.RD		\$	11,350 \$	-
			Total Peace Corps			\$	11,350 \$	-
riculture, Department of	Direct		NI19MSCFRXXXG057	10.202	Cooperative Forestry Research	\$	54,222 \$	-
riculture, Department of	Direct		NI20MSCFRXXXG025	10.202	Cooperative Forestry Research		201,965	-
riculture, Department of	Direct		NI21MSCFRXXXG041	10.202	Cooperative Forestry Research		39,283	-
riculture, Department of	Pass-Through University of N	Ainnesota	H006607425	10.215	Sustainable Agriculture Research and Education	<u>\$</u> \$	295,470 \$ 1,418 \$	
riculture, Department of	Direct		58-4000-8-0048-R	10.253	Consumer Data and Nutrition Research	\$	3,585 \$	-
riculture, Department of	Direct		58-4000-9-0042-R	10.253	Consumer Data and Nutrition Research		3,265	-
riculture, Department of	Direct		59-4000-8-0065	10.253	Consumer Data and Nutrition Research		32,309	-
riculture, Department of	Direct		59-4000-8-0066	10.253	Consumer Data and Nutrition Research		52,772	-
riculture, Department of	Pass-Through University of K	Lentucky	3200000900-20-211/7800005160	10.253	Consumer Data and Nutrition Research		33,865	-
i-ukur Devetuent of	Diment		2010 51106 20102	10 202	Internet of December 2	\$	125,796 \$	- 52 (
riculture, Department of	Direct		2019-51106-30193	10.303	Integrated Programs	\$ \$	192,266 \$	53,6
riculture, Department of	Direct Direct		2017-67019-26292 2018-67030-28239	10.310	Agriculture and Food Research Initiative (AFRI)	\$	49,792 \$ 11,949	9,2
riculture, Department of	Direct			10.310 10.310	Agriculture and Food Research Initiative (AFRI)		29,759	-
riculture, Department of	Direct		2018-67030-28497 2019-67019-29460	10.310	Agriculture and Food Research Initiative (AFRI)		100,788	-
riculture, Department of	Direct		2019-67019-29460 2021-67019-33423	10.310	Agriculture and Food Research Initiative (AFRI) Agriculture and Food Research Initiative (AFRI)		25,833	-
riculture, Department of		A	61572-01	10.310			25,855	-
riculture, Department of riculture, Department of	Pass-Through Embry-Riddle Pass-Through Husson University		2018-UM-01	10.310	Agriculture and Food Research Initiative (AFRI) Agriculture and Food Research Initiative (AFRI)		21,856	-
riculture, Department of	Pass-Through Michigan State		RC104749B	10.310	Agriculture and Food Research Initiative (AFRI)		437,214	-
riculture, Department of	Pass-Through New Jersey Ins		997158	10.310	Agriculture and Food Research Initiative (AFRI)		(7,184)	-
riculture, Department of	Pass-Through New Jersey Ins		997158	10.310	Agriculture and Food Research Initiative (AFRI) Agriculture and Food Research Initiative (AFRI)		51,190	-
riculture, Department of	Pass-Through University at B		R996610	10.310	Agriculture and Food Research Initiative (AFRI)		11,393	-
iculture, Department of	Pass-Through University of N		204064UM	10.310	Agriculture and Food Research Initiative (AFRI)		16,144	-
	,				······································	\$	784,837 \$	9,2
riculture, Department of	Pass-Through CHN Nebraska	a (dba Gretchen Swanson Center for Nutrition)	Subrecipient Agreement	10.331	Food Insecurity Nutrition Incentive Grants Program	\$	214,870 \$	-
riculture, Department of	Pass-Through Michigan State	University	RC110437-UM	10.575	Farm to School Grant Program	\$ \$	581 \$	-
riculture, Department of	Direct		18-DG-11420004-182	10.674	Wood Utilization Assistance	\$	58,408 \$	-
riculture, Department of	Direct		19-DG-11420000-308	10.674	Wood Utilization Assistance		35,193	-
						\$	93,601 \$	
riculture, Department of	Direct		16-JV-11221636-174	10.701	Stewardship Agreements	\$	17,489 \$	-
riculture, Department of	Direct		19-JV-11261955-080	10.707	Research Joint Venture and Cost Reimbursable Agreements	\$	9,776 \$	-
riculture, Department of	Pass-Through University of N	/aryland, College Park	85121-Z5150202	10.950	Agricultural Statistics Reports	\$	33,624 \$	-
riculture, Department of	Direct		15-JV-11242309-073	10.RD		\$	(99) \$	-
riculture, Department of	Direct		16-CR-11242306-071	10.RD			1,215	-
riculture, Department of	Direct		17-CR-11242306-028	10.RD			40,508	-
riculture, Department of	Direct		19-CR-11242306-096	10.RD			25,374	-
riculture, Department of	Direct		20-JV-11261955-081	10.RD		\$	53,432 120,430 \$	
			Total Agriculture, Department of			\$	1,890,158 \$	62,83
mmerce, Department of	Direct		NA18SEC0080006	11.008	NOAA Mission-Related Education Awards	\$	40,617 \$	20,70
mmerce, Department of	Pass-Through University of N	Jew Hampshire	L0006	11.008	NOAA Mission-Related Education Awards	\$	48,127	20,70
, I	6 ,	1				\$	88,744 \$	20,70
nmerce, Department of	Direct		NA20OAR0110427	11.011	Ocean Exploration	\$	15,777 \$	-
mmerce, Department of	Pass-Through Great Lakes Ob	bserving System (GLOS)	IOOS/DATA-09	11.012	Integrated Ocean Observing System (IOOS)	\$	11,310 \$	-
mmerce, Department of	Pass-Through University of N	/aryland, College Park	SA7525796B	11.012	Integrated Ocean Observing System (IOOS)		104,207	-
						\$	115,517 \$	-
mmerce, Department of	Direct		CB20ADR0160002	11.016	Statistical, Research, and Methodology Assistance	\$	71,260 \$	4,47
mmerce, Department of	Direct		ED17HDQ0200083	11.020	Cluster Grants	\$	89,861 \$	-
mmerce, Department of	Direct		ED19HDQ0200001	11.020	Cluster Grants	\$	68,045 157,906 \$	-
					Science, Technology, Engineering, and Mathematics (STEM		157,700 \$	
mmerce, Department of	Direct		ED21HDQ0230008	11.023	Talent Challenge Program	\$	37,167 \$	-
mmerce, Department of	Direct		ED16CHI3030032	11.303	Economic Development Technical Assistance	\$	23,864 \$	-
mmerce, Department of	Direct		ED16CHI3030032	11.303	Economic Development Technical Assistance		46,618	-
Duration of	Direct		EDIRIDO2120005	11.212	Tende Adjustment Assistance C. E.	\$	70,482 \$	-
nmerce, Department of	Direct		ED18HDQ3130005	11.313	Trade Adjustment Assistance for Firms	\$	(42,346) \$	-
nmerce, Department of	Direct		ED19HDQ3130099	11.313	Trade Adjustment Assistance for Firms		1,500,219	-
nmerce, Department of	Direct		ED20HDQ3130002	11.313	Trade Adjustment Assistance for Firms	\$	265,424	-
mmarca Department of	Direct		NA180AP4170102	11 417	See Grant Sunnort	\$	1,723,297 \$	1,362,5
mmerce, Department of			NA18OAR4170102	11.417	Sea Grant Support	3	2,220,938 \$	
mmerce, Department of	Direct Direct		NA19OAR4170355 NA21OAR0110048	11.417 11.417	Sea Grant Support		35,481 24,511	35,4
ommerce, Department of ommerce, Department of	Pass-Through Cornell Univers	sity	Agreement No. 90329-20303	11.417	Sea Grant Support Sea Grant Support		13,935	-
minoree, i.e. partitient of	U	5						-
ommerce, Department of	Pass-Through Ohio Sea Grant	t	60063781	11.417	Sea Grant Support		3,731	

			ng	Passed-Th			
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal I	Expenditures to S	Subrecipients
Commerce, Department of	Pass-Through Purdue University	F0008309702058	11.417	Sea Grant Support	¢.	4,133	1,398,023
Commerce, Department of	Direct	NA14NOS4190145	11.419	Coastal Zone Management Administration Awards	\$	965,135 \$	777,175
Commerce, Department of	Direct	NA19NOS4190058	11.419	Coastal Zone Management Administration Awards	Ģ	1,190,319	386,129
Commerce, Department of	Pass-Through Michigan, State of, Environment, Great Lakes, and Energy, Department of	19-Resiliency Strategy-003	11.419	Coastal Zone Management Administration Awards		56,614	-
Commerce, Department of	Pass-Through Michigan, State of, Natural Resources, Department of	20-PSM-003	11.419	Coastal Zone Management Administration Awards		61,936	-
	· ···· · ·····························				\$	2,274,004 \$	1,163,304
Commerce, Department of	Direct	NA15OAR4310148	11.431	Climate and Atmospheric Research	\$	796,319 \$	225,691
Commerce, Department of	Direct	NA18OAR4310116	11.431	Climate and Atmospheric Research		157,018	-
Commerce, Department of	Direct	NA18OAR4310263	11.431	Climate and Atmospheric Research		30,067	-
Commerce, Department of	Direct	NA20OAR4310148A	11.431	Climate and Atmospheric Research		54,289	10,347
Commerce, Department of	Pass-Through Syracuse University	SP-30762-1-05457-S03	11.431	Climate and Atmospheric Research		25,056	-
					\$	1,062,749 \$	236,038
				National Oceanic and Atmospheric Administration (NOAA)			
Commerce, Department of	Direct	NA12OAR4320071	11.432	Cooperative Institutes	\$	62,081 \$	-
				National Oceanic and Atmospheric Administration (NOAA)			
Commerce, Department of	Direct	NA17OAR4320152	11.432	Cooperative Institutes		4,853,071	1,023,249
					\$	4,915,152 \$	1,023,249
Commerce, Department of	Pass-Through Texas A & M University	M2100335	11.440	Environmental Sciences, Applications, Data, and Education	\$	15,164 \$	
Commerce, Department of	Direct	NA16OAR4590240	11.459	Weather and Air Quality Research	\$	(9,488) \$	-
Commerce, Department of	Direct	NA18OAR4590363	11.459	Weather and Air Quality Research		194,979	66,979
Commerce, Department of	Direct	NA19OAR4590140	11.459	Weather and Air Quality Research	¢	185,607	66,979
				Center for Sponsored Coastal Ocean Research Coastal Ocean	\$	371,098 \$	00,979
Commerce, Department of	Direct	NA16NOS4780209	11.478	Program	\$	253,876 \$	
Commerce, Department of	Dilect	INATOINO34780209	11.470	Center for Sponsored Coastal Ocean Research Coastal Ocean		233,870 \$	-
Commerce, Department of	Pass-Through Ohio State University, The	RF01531332	11.478	Program		19,917	
connece, Department of	rass-model one state onversity, me	RI 01551552	11.470	Togram	\$	273,793 \$	
Commerce, Department of	Direct	60NANB17D191	11.609	Measurement and Engineering Research and Standards	\$	95,208 \$	22,020
Commerce, Department of	Direct	70NANB17H163	11.609	Measurement and Engineering Research and Standards	ψ	78,089	-
Commerce, Department of	Direct	70NANB17H176	11.609	Measurement and Engineering Research and Standards		118,200	_
Commerce, Department of	Direct	70NANB17H291	11.609	Measurement and Engineering Research and Standards		196,080	106,370
Commerce, Department of	Direct	70NANB18H140	11.609	Measurement and Engineering Research and Standards		50,510	
Commerce, Department of	Direct	70NANB19H090	11.609	Measurement and Engineering Research and Standards		17,391	-
Commerce, Department of	Direct	70NANB20H137	11.609	Measurement and Engineering Research and Standards		25,854	-
Commerce, Department of	Direct	70NANB20H140	11.609	Measurement and Engineering Research and Standards		51,262	-
					\$	632,594 \$	128,390
Commerce, Department of	Direct	1305M320PNWWX0593	11.RD		\$	157,757 \$	-
Commerce, Department of	Direct	IPA#0099-FY19-IPA-0102.000	11.RD			22,734	-
Commerce, Department of	Direct	RA133W17CN0166	11.RD			54,622	-
					\$	235,113 \$	-
		Total Commerce, Department of			\$	14,362,546 \$	4,041,164
			10 000		é	50.000	
Defense, Department of	Direct	FA8750-17-2-0125	12.300	Basic and Applied Scientific Research	\$	50,982 \$	-
Defense, Department of	Direct	FA8750-18-2-0019	12.300	Basic and Applied Scientific Research		(79)	40
Defense, Department of	Direct	FA9550-18-1-0044	12.300	Basic and Applied Scientific Research		59,718	-
Defense, Department of	Direct	HQ00342010021	12.300	Basic and Applied Scientific Research		50,000	-
Defense, Department of	Direct	HQ00342010030	12.300	Basic and Applied Scientific Research		50,000	-
Defense, Department of	Direct	HQ00342010033	12.300	Basic and Applied Scientific Research		48,332	-
Defense, Department of	Direct	N00014-13-1-0217	12.300	Basic and Applied Scientific Research		1,044	-
Defense, Department of Defense, Department of	Direct Direct	N00014-15-1-2752	12.300 12.300	Basic and Applied Scientific Research		247,340	120,887
Defense, Department of Defense, Department of	Direct	N00014-16-1-2969 N00014-16-1-2971	12.300	Basic and Applied Scientific Research Basic and Applied Scientific Research		71,841 54,588	-
			12.300	Basic and Applied Scientific Research Basic and Applied Scientific Research			-
Defense, Department of	Direct Direct	N00014-16-1-2972 N00014-16-1-3108	12.300			45,911 19,591	-
Defense, Department of Defense, Department of	Direct	N00014-16-1-3108 N00014-17-1-2050	12.300	Basic and Applied Scientific Research Basic and Applied Scientific Research		(1,253)	-
Defense, Department of Defense, Department of	Direct	N00014-17-1-2050 N00014-17-1-2057	12.300	Basic and Applied Scientific Research Basic and Applied Scientific Research		(1,253) 83,560	21,541
Defense, Department of Defense, Department of	Direct	N00014-17-1-2037 N00014-17-1-2211	12.300	Basic and Applied Scientific Research		2,313	21,341
Defense, Department of	Direct	N00014-17-1-2211 N00014-17-1-2296	12.300	Basic and Applied Scientific Research		(12,656)	-
Defense, Department of	Direct	N00014-17-1-2250	12.300	Basic and Applied Scientific Research		121,634	-
Defense, Department of	Direct	N00014-17-1-2304 N00014-17-1-2491	12.300	Basic and Applied Scientific Research		143,318	-
	Direct	N00014-17-1-2-491	12.300	Basic and Applied Scientific Research		(3,500)	11,016
Defense, Department of		N00014-17-1-2982	12.300	Basic and Applied Scientific Research		10,192	
Defense, Department of	Direct						
Defense, Department of Defense, Department of	Direct Direct		12.300	Basic and Applied Scientific Research		582,930	
Defense, Department of Defense, Department of Defense, Department of	Direct	N00014-17-1-2992	12.300 12.300	Basic and Applied Scientific Research Basic and Applied Scientific Research		582,930 103,746	_
Defense, Department of Defense, Department of Defense, Department of Defense, Department of	Direct Direct	N00014-17-1-2992 N00014-17-1-2998	12.300	Basic and Applied Scientific Research		103,746	-
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Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct	N00014-17-1-2992 N00014-17-1-2998 N00014-18-1-2010 N00014-18-1-2015 N00014-18-1-2020	12.300 12.300 12.300 12.300	Basic and Applied Scientific Research Basic and Applied Scientific Research Basic and Applied Scientific Research Basic and Applied Scientific Research		103,746 119,332 74,124 166,708	-
Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct Direct	N00014-17-1-2992 N00014-17-1-2998 N00014-18-1-2010 N00014-18-1-2015 N00014-18-1-2020 N00014-18-1-2141	12.300 12.300 12.300 12.300 12.300	Basic and Applied Scientific Research Basic and Applied Scientific Research Basic and Applied Scientific Research Basic and Applied Scientific Research Basic and Applied Scientific Research		103,746 119,332 74,124 166,708 332,396	
Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct	N00014-17-1-2992 N00014-17-1-2998 N00014-18-1-2010 N00014-18-1-2015 N00014-18-1-2020	12.300 12.300 12.300 12.300	Basic and Applied Scientific Research Basic and Applied Scientific Research Basic and Applied Scientific Research Basic and Applied Scientific Research		103,746 119,332 74,124 166,708	

Description         Type         Description         Description <thd< th=""><th></th><th></th><th></th><th></th><th>Assistance Listin</th><th>g</th><th></th><th>Passed-Through</th></thd<>					Assistance Listin	g		Passed-Through
International Locate Constrained Locate Locat	Cluster Title/Federal Grantor/Program	Type Pass-Th	rough Grantor	Award Identifier			Federal Expenditures	
Date     Desc	Defense, Department of	Direct				Basic and Applied Scientific Research	249,539	-
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Definite partnerDerivNovid 1-91-25812.300Busis of Appled Scattle Reach(4.20)Definite DeprimentDevidNovid 1-91-2571.300Busis of Appled Scattle Reach(5.80)Novid 1-91-2571.300Busis of Appled Scattle Reach(5.80)(5.80)Novid 1-91-2571.300Busis of Appled Scattle Reach(5.80)Devid 1-91-257Devid 1-91-2571.300Busis of Appled Scattle Reach(5.80)Definite DeprimentDevid 1-91-257Devid 1-91-257Busis of Appled Scattle Reach(5.80)Definite DeprimentDevid 1-91-257Devid 1-91-257Busis of Appled Scattle Reach(5.80)Definite DeprimentDevid 1-91-257Devid 1-91-257Busis of Appled Scattle Reach(5.80)Notice DeprimentDevid 1-91-257Devid 1-91-257Busis of Appled Scattle Reach(7.10)Notice DeprimentDevid 1-91-257Devid 1-91-257Busis of	Defense, Department of	Direct		N00014-19-1-2262	12.300	Basic and Applied Scientific Research	223,070	-
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Before, Departmer of Defause. Departmer of De	Defense, Department of	Direct		N00014-19-1-2365	12.300	Basic and Applied Scientific Research	(4,208)	) -
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Defense, Department of         Direct         Nonet         2-976         12.30         Basic and Applied Scientific Research         497,74           Defense, Department of         Direct         Nonet         2-12.97         Basic and Applied Scientific Research         319,860           Defense, Department of         Direct         Nonet         2-10.23         Basic and Applied Scientific Research         36,697           Defense, Department of         Direct         Nonet         2-10.23         Basic and Applied Scientific Research         36,575           Defense, Department of         Direct         Nonet         2-10.21         Basic and Applied Scientific Research         36,375           Defense, Department of         Direct         Nonet         1-10.21         Basic and Applied Scientific Research         1-10.25           Defense, Department of         Direct         Nonet         1-10.25         Basic and Applied Scientific Research         1-10.26           Defense, Department of         Direct         Nonet         Nonet         1-10.20         Basic and Applied Scientific Research         1-16.47           Defense, Department of         Direct         Nonet         Nonet         1-10.20         Basic and Applied Scientific Research         1-16.47           Defense, Department of         Direct         <								-
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Defense, Department of     Direct     HDTRA1-15-1-0045     12.351     Scientific Research - Combating Weapons of Mass Destruction     5     4459,823     \$       Defense, Department of     Direct     HDTRA1-16-1-0004     12.351     Scientific Research - Combating Weapons of Mass Destruction     71,211       Defense, Department of     Pass-Through Pennsylvania State University     S21-01     2351     Scientific Research - Combating Weapons of Mass Destruction     71,211       Defense, Department of     Direct     821-01     21.351     Scientific Research - Combating Weapons of Mass Destruction     71,211       Defense, Department of     Direct     W81XWH-13-1-0377     12.420     Military Medical Research and Development     \$     308,393     \$       Defense, Department of     Direct     W81XWH-14-10005     12.420     Military Medical Research and Development     \$     308,393     \$       Defense, Department of     Direct     W81XWH-14-1005     12.420     Military Medical Research and Development     \$     \$     308,393     \$       Defense, Department of     Direct     W81XWH-14-1005     12.420     Military Medical Research and Development     \$     \$     \$     \$     \$     \$     \$     \$     \$     \$     \$     \$     \$     \$     \$     \$     \$     \$     \$ <td>Detense, Department of</td> <td>r ass-r mough Oniversity of wisconsin</td> <td></td> <td>0248370</td> <td>12.500</td> <td>basic and reprice becautie research</td> <td></td> <td>\$ 661,135</td>	Detense, Department of	r ass-r mough Oniversity of wisconsin		0248370	12.500	basic and reprice becautie research		\$ 661,135
Defense, Department of Defense, Department of     Direct     HDTRA1-16-10004     12.351     Scientific Research - Combating Weapons of Mass Destruction     71,211       Defense, Department of     Pass-Through Pennsylvania State University     S21-01     S21     Scientific Research - Combating Weapons of Mass Destruction     74,511       Defense, Department of     Direct     881XWH-13-1-0377     12.40     Military Medical Research and Development     \$ 308,393 \$       Defense, Department of     Direct     W81XWH-14-10005     12.40     Military Medical Research and Development     \$ 53,785       Defense, Department of     Direct     W81XWH-15-100194     12.420     Military Medical Research and Development     \$ 55,484       Defense, Department of     Direct     W81XWH-15-100194     12.420     Military Medical Research and Development     \$ 55,484	Defense. Department of	Direct		HDTRA1-15-1-0045	12 351	Scientific Research - Combating Weapons of Mass Destruction	*	
Defense, Department of     Pass-Through Pennsylvania State University     S21-01     12.351     Scientific Research - Combating Weapons of Mass Destruction     294,501       Defense, Department of     Direct     \$     825,535     \$       Defense, Department of     Direct     \$     308,393     \$       Defense, Department of     Direct     \$     308,393     \$       Defense, Department of     Direct     \$     305,785     \$       Defense, Department of     Direct     \$     \$     \$55,844       Defense, Department of     Direct     \$     \$     \$55,844       Defense, Department of     Direct     \$     \$     \$17,703								
S     825,535     S       Defense, Department of Defense, Department of     Direct     W81XWH-13-1-0377     12.420     Military Medical Research and Development     \$ 308,393     \$       Defense, Department of     Direct     W81XWH-14-1-0005     12.420     Military Medical Research and Development     253,785       Defense, Department of     Direct     W81XWH-14-1-0362     12.420     Military Medical Research and Development     255,844       Defense, Department of     Direct     W81XWH-15-1-0194     12.420     Military Medical Research and Development     17,703								-
Defense, Department of     Direct     \$ 308,393     \$       Defense, Department of     Direct     W81XWH-13-1-0037     12.420     Military Medical Research and Development     \$ 308,393     \$       Defense, Department of     Direct     W81XWH-14-10005     12.420     Military Medical Research and Development     253,785       Defense, Department of     Direct     W81XWH-14-10362     12.420     Military Medical Research and Development     55,844       Defense, Department of     Direct     W81XWH-15-10194     12.420     Military Medical Research and Development     57,703	, <u>r</u>							\$ 383,021
Defense, Department ofDirectW81XWH-14-1-000512.420Military Medical Research and Development253,785Defense, Department ofDirectW81XWH-14-1-036212.420Military Medical Research and Development555,484Defense, Department ofDirectW81XWH-15-1-019412.420Military Medical Research and Development17,703	Defense, Department of	Direct		W81XWH-13-1-0377	12.420	Military Medical Research and Development		
Defense, Department ofDirectW81XWH-14-1-036212.420Military Medical Research and Development555,484Defense, Department ofDirectW81XWH-15-1-019412.420Military Medical Research and Development17,703								
Defense, Department of Direct W81XWH-15-1-0194 12.420 Military Medical Research and Development 17,703								
Defense, Department of Direct W81XWH-15-1-0222 12.40 Military Medical Research and Development 80								
								-
Defense, Department of Direct W81XWH-15-1-0503 12.420 Military Medical Research and Development 24,857	Defense, Department of	Direct		W81XWH-15-1-0503	12.420		24,857	-

Cluster Title/Federal Grantor/Program	Tupo	Theough Cuenter American	Assistance List		Fodoval Exponditum	Passed-Through
Defense, Department of	Type Pass- Direct	Through Grantor Award Identifier W81XWH-15-1-0689	Number 12.420	Assistance Listing Program Title Military Medical Research and Development	Federal Expenditures 33,241	to Subrecipients
Defense, Department of	Direct	W81XWH-10-1-0089 W81XWH-16-1-0551	12.420	Military Medical Research and Development	34,727	-
Defense, Department of	Direct	W81XWH-16-1-0571	12.420	Military Medical Research and Development	41,654	_
Defense, Department of	Direct	W81XWH-16-1-0574	12.420	Military Medical Research and Development	11,700	_
Defense, Department of	Direct	W81XWH-16-1-0587	12.420	Military Medical Research and Development	94,836	5,130
Defense, Department of	Direct	W81XWH-16-1-0648	12.420	Military Medical Research and Development	10,964	-
Defense, Department of	Direct	W81XWH-16-1-0752	12.420	Military Medical Research and Development	17,805	-
Defense, Department of	Direct	W81XWH-16-2-0051	12.420	Military Medical Research and Development	(1,652)	-
Defense, Department of	Direct	W81XWH-17-1-0171	12.420	Military Medical Research and Development	155,550	-
Defense, Department of	Direct	W81-XWH-17-1-0224	12.420	Military Medical Research and Development	(814)	-
Defense, Department of	Direct	W81XWH-17-1-0494	12.420	Military Medical Research and Development	138,786	48,639
Defense, Department of	Direct	W81XWH-17-1-0496	12.420	Military Medical Research and Development	(38,554)	-
Defense, Department of	Direct	W81XWH-17-1-0575	12.420	Military Medical Research and Development	164,570	7,516
Defense, Department of	Direct	W81XWH-17-1-0641	12.420	Military Medical Research and Development	300,871	-
Defense, Department of	Direct	W81XWH-17-1-0655	12.420	Military Medical Research and Development	(1,727)	-
Defense, Department of	Direct	W81XWH-17-1-0701	12.420	Military Medical Research and Development	76,630	-
Defense, Department of	Direct	W81XWH-17-2-0012	12.420	Military Medical Research and Development	446,827	-
Defense, Department of	Direct	W81XWH-18-1-0005	12.420	Military Medical Research and Development	223,288	-
Defense, Department of	Direct	W81XWH-18-1-0033	12.420	Military Medical Research and Development	628,656	-
Defense, Department of	Direct	W81XWH-18-1-0180	12.420	Military Medical Research and Development	279,089	-
Defense, Department of	Direct	W81XWH-18-1-0219	12.420	Military Medical Research and Development	158,983	-
Defense, Department of	Direct	W81XWH-18-1-0275	12.420	Military Medical Research and Development	51,690	-
Defense, Department of	Direct	W81XWH1810346	12.420	Military Medical Research and Development	242,612	-
Defense, Department of	Direct	W81XWH-18-1-0407	12.420	Military Medical Research and Development	46,990	36,583
Defense, Department of	Direct	W81XWH1810453	12.420	Military Medical Research and Development	219,573	-
Defense, Department of	Direct	W81XWH-18-1-0487	12.420	Military Medical Research and Development	158,701	-
Defense, Department of	Direct	W81XWH1810567	12.420	Military Medical Research and Development	254,291	-
Defense, Department of	Direct	W81XWH1810587	12.420	Military Medical Research and Development	362,740	-
Defense, Department of	Direct	W81XWH1810656	12.420	Military Medical Research and Development	351,935	132,104
Defense, Department of	Direct	W81XWH-18-1-0721	12.420	Military Medical Research and Development	11,748	-
Defense, Department of	Direct	W81XWH-18-2-0038	12.420	Military Medical Research and Development	45,719	25,017
Defense, Department of	Direct	W81XWH1910093	12.420	Military Medical Research and Development	117,051	-
Defense, Department of	Direct	W81XWH1910094	12.420	Military Medical Research and Development	47,765	-
Defense, Department of	Direct	W81XWH1910162	12.420	Military Medical Research and Development	223,638	-
Defense, Department of	Direct	W81XWH1910407/0011332752-0001		Military Medical Research and Development	220,007	-
Defense, Department of	Direct	W81XWH1910424	12.420	Military Medical Research and Development	326,937	-
Defense, Department of	Direct	W81XWH19-1-0528	12.420	Military Medical Research and Development	369,532	-
Defense, Department of	Direct	W81XWH19-1-0529	12.420	Military Medical Research and Development	92,712	-
Defense, Department of	Direct	W81XWH19-1-0530	12.420	Military Medical Research and Development	51,493	-
Defense, Department of	Direct	W81XWH19-1-0623	12.420	Military Medical Research and Development	108,399	-
Defense, Department of	Direct	W81XWH2010107	12.420	Military Medical Research and Development	779,879	70,543
Defense, Department of	Direct	W81XWH-20-1-0108	12.420	Military Medical Research and Development	199,586	-
Defense, Department of	Direct	W81XWH2010155	12.420	Military Medical Research and Development	105,992	-
Defense, Department of	Direct	W81XWH2010172	12.420	Military Medical Research and Development	122,238	-
Defense, Department of	Direct	W81XWH-20-1-0213	12.420	Military Medical Research and Development	161,509	100 2/7
Defense, Department of	Direct	W81XWH-20-1-0336	12.420	Military Medical Research and Development	297,137	129,367
Defense, Department of	Direct	W81XWH2010405	12.420	Military Medical Research and Development	328,484	-
Defense, Department of	Direct	W81XWH2010436	12.420	Military Medical Research and Development	42,124	-
Defense, Department of Defense, Department of	Direct Direct	W81XWH2010496	12.420 12.420	Military Medical Research and Development	222,393	-
Defense, Department of	Direct	W81XWH2010547 W81XWH2010571	12.420	Military Medical Research and Development Military Medical Research and Development	117,410 359,153	-
Defense, Department of	Direct	W81XWH2010571 W81XWH2010572	12.420	Military Medical Research and Development	270,926	-
Defense, Department of	Direct	W81XWH2010572 W81XWH2010614	12.420	Military Medical Research and Development Military Medical Research and Development	126,113	-
Defense, Department of	Direct	W81XWH2010614 W81XWH2010629	12.420	Military Medical Research and Development Military Medical Research and Development	126,113	-
Defense, Department of	Direct	W81XWH2010629 W81XWH2010663	12.420	Military Medical Research and Development	337,868	-
Defense, Department of	Direct	W81XWH2010003	12.420	Military Medical Research and Development	95,889	-
Defense, Department of	Direct	W81XWH-20-1-0832 W81XWH2010859	12.420	Military Medical Research and Development	45,859	-
Defense, Department of	Direct	W81XWH221-1-0040	12.420	Military Medical Research and Development	164,963	_
Defense, Department of	Direct	W81XWH2110122	12.420	Military Medical Research and Development	39,892	-
Defense, Department of	Direct	W81XWH2110122	12.420	Military Medical Research and Development	59,535	_
Defense, Department of	Direct	W81XWH2110293	12.420	Military Medical Research and Development	6,991	-
Defense, Department of	Pass-Through Angion Biomedica Corp	Subcontractor Agreement	12.420	Military Medical Research and Development	140,395	-
Defense, Department of	Pass-Through Brigham and Women's Hospital	117951	12.420	Military Medical Research and Development	11,219	_
Defense, Department of	Pass-Through Brigham and Women's Hospital	117951	12.420	Military Medical Research and Development	12,518	_
Defense, Department of	Pass-Through Case Western Reserve University	RES509313	12.420	Military Medical Research and Development	275,643	_
Defense, Department of	Pass-Through DENVER RESEARCH INSTITUTE	MSRC-FY19-05	12.420	Military Medical Research and Development	11,331	_
Defense, Department of	Pass-Through Indiana University	IN4386948UM/PO25931	12.420	Military Medical Research and Development	910,484	32,353
Defense, Department of	Pass-Through Johns Hopkins University	W81XWH2010353	12.420	Military Medical Research and Development	4,007	
Defense, Department of	Pass-Through Mayo Clinic	UMI-281519/PO #67938702	12.420	Military Medical Research and Development	1,994	-
Defense, Department of	Pass-Through Memorial Sloan-Kettering Cancer Cer		12.420	Military Medical Research and Development	123,926	-
Defense, Department of	Pass-Through Memorial Sloan-Kettering Cancer Cer	ter (MSKCC) W81XWH1520018	12.420	Military Medical Research and Development	(3,954)	-

			Assistance Listi	•		ssed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures to	Subrecipients
Defense, Department of	Pass-Through Northern California Institute for Research & Education, Inc. (NCIRE)	WEI1808-1818	12.420	Military Medical Research and Development	175	-
Defense, Department of	Pass-Through Northern California Institute for Research & Education, Inc. (NCIRE)	WEI1872-03, Ref # 095447	12.420	Military Medical Research and Development	4,810	-
Defense, Department of	Pass-Through Ohio State University, The	60078849	12.420	Military Medical Research and Development	13,471	-
Defense, Department of	Pass-Through Ohio Willow Wood Co	W81XWH-17-1-0704-SA01	12.420	Military Medical Research and Development	128,841	-
Defense, Department of	Pass-Through Oregon Health and Science University	1011056_UMICH	12.420	Military Medical Research and Development	3,266	-
Defense, Department of	Pass-Through Oregon Health and Science University	1011056_UMICH	12.420	Military Medical Research and Development	8,755	-
Defense, Department of	Pass-Through The University of Texas Health Science Center at San Antonio	159425 / 155536	12.420	Military Medical Research and Development	(1,502)	-
Defense, Department of	Pass-Through University of Alabama	000507860-002	12.420	Military Medical Research and Development	21,476	-
Defense, Department of	Pass-Through University of Delaware	47471	12.420	Military Medical Research and Development	55,763	-
Defense, Department of	Pass-Through University of Louisville Research Foundation, Inc.	ULRF_20-0810-01	12.420	Military Medical Research and Development	12,241	-
Defense, Department of	Pass-Through University of Nebraska	35-1905-2046-001	12.420	Military Medical Research and Development	87,574	-
Defense, Department of	Pass-Through University of Pennsylvania	578015	12.420	Military Medical Research and Development	38,434	-
Defense, Department of	Pass-Through University of Pittsburgh	0056666 (413614-6)	12.420 12.420	Military Medical Research and Development	11,962 27,535	-
Defense, Department of	Pass-Through University of Rochester	417438 / URFAO: GR510636		Military Medical Research and Development		-
Defense, Department of Defense, Department of	Pass-Through University of Utah Pass-Through University of Virginia	10040357-00/PO U000038463 GG12337 PO#2327028	12.420 12.420	Military Medical Research and Development Military Medical Research and Development	68,217 69,916	-
Defense, Department of	6 , 6		12.420	Military Medical Research and Development		-
Defense, Department of	Pass-Through Veterans Education & Research Assoc of MI (VERAM) Pass-Through Veterans Education & Research Assoc of MI (VERAM)	UMSub-2001 V-SUBUM-1602	12.420		96,620 (37)	-
				Military Medical Research and Development		-
Defense, Department of	Pass-Through Veterans Education & Research Assoc of MI (VERAM)	V-VUBUM-1601	12.420	Military Medical Research and Development	(762) \$ 13,412,270 \$	843,072
Defense Demontration of	Direct	W011NE 12 1 0297	12 421	Davis Saintiffa Barranh		
Defense, Department of	Direct	W911NF-13-1-0387	12.431	Basic Scientific Research		(968
Defense, Department of	Direct	W911NF-15-1-0554	12.431	Basic Scientific Research	(483)	-
Defense, Department of	Direct	W911NF-16-1-0044	12.431	Basic Scientific Research	166,477	-
Defense, Department of	Direct	W911NF-16-1-0340	12.431	Basic Scientific Research	(25,943)	-
Defense, Department of	Direct	W911NF-17-1-0109	12.431 12.431	Basic Scientific Research Basic Scientific Research	94,124 1,669,584	1.065.646
Defense, Department of Defense, Department of	Direct Direct	W911NF-17-1-0312	12.431	Basic Scientific Research		1,065,646
Defense, Department of		W911NF-18-1-0061	12.431		115,507	-
· ·	Direct	W911NF1810162		Basic Scientific Research	69,194	-
Defense, Department of	Direct Direct	W911NF1810167	12.431	Basic Scientific Research	88,868	686,856
Defense, Department of		W911NF1810208 W911NF1810299	12.431 12.431	Basic Scientific Research	1,289,731	080,830
Defense, Department of	Direct Direct	W911NF1810299 W911NF1810339	12.431	Basic Scientific Research Basic Scientific Research	375,625 122,727	-
Defense, Department of Defense, Department of	Direct	W911NF-18-1-0397	12.431	Basic Scientific Research	100,332	-
Defense, Department of	Direct	W911NF1910027	12.431	Basic Scientific Research	100,332 121,705	-
Defense, Department of	Direct	W911NF1910027	12.431	Basic Scientific Research	42,895	-
Defense, Department of	Direct	W911NF-19-1-0279	12.431	Basic Scientific Research	1,134,563	571,992
Defense, Department of	Direct	W911NF1910337	12.431	Basic Scientific Research	118,107	571,992
Defense, Department of	Direct	W911NF1910337	12.431	Basic Scientific Research	116,317	-
Defense, Department of	Direct	W911NF1920045	12.431	Basic Scientific Research	204,919	-
Defense, Department of	Direct	W911-NF-19-2-0208	12.431	Basic Scientific Research	80,009	-
Defense, Department of	Direct	W911NF2010001	12.431	Basic Scientific Research	55,200	
Defense, Department of	Direct	W911NF2010147	12.431	Basic Scientific Research	56,102	_
Defense, Department of	Direct	W911NF2010150	12.431	Basic Scientific Research	158,951	
Defense, Department of	Direct	W911NF2010196	12.431	Basic Scientific Research	60,000	
Defense, Department of	Direct	W911NF-20-1-0297	12.431	Basic Scientific Research	44,794	
Defense, Department of	Direct	W911NF2110057	12.431	Basic Scientific Research	32,919	_
Defense, Department of	Direct	W911NF2110116	12.431	Basic Scientific Research	29,634	
Defense, Department of	Direct	W911NF2110149	12.431	Basic Scientific Research	16,096	_
Defense, Department of	Direct	W911NF2110207	12.431	Basic Scientific Research	35,970	_
Defense, Department of	Direct	W911NF2110337	12.431	Basic Scientific Research	8,946	
Defense, Department of	Direct	W911NF2120111	12.431	Basic Scientific Research	9,589	
Defense, Department of	Pass-Through George Mason University	E2030471	12.431	Basic Scientific Research	102,603	_
Defense, Department of	Pass-Through Georgia Institute of Technology	AWD-101190-G6	12.431	Basic Scientific Research	38,509	_
Defense, Department of	Pass-Through Montana Technological University (Montana Tech)	SB28550-A	12.431	Basic Scientific Research	53,395	
Defense, Department of	Pass-Through Mohana recinological University (Mohana recin)	60071169/GR115535	12.431	Basic Scientific Research	103,215	
Defense, Department of	Pass-Through University of California - Santa Barbara	KK1811	12.431	Basic Scientific Research	103,213	-
Defense, Department of	Pass-Through University of California-San Diego	703606	12.431	Basic Scientific Research	62,249	
Defense, Department of	Pass-Through University of Camorna-San Diego	A006827501	12.431	Basic Scientific Research	322,661	
Defense, Department of	Pass-Through University of Minnesota	A008126201	12.431	Basic Scientific Research	19,905	
Defense, Department of	Pass-Through University of Minnesota	A008120201 A008178001	12.431	Basic Scientific Research	318,380	-
Defense, Department of	Pass-Through University of Southern California	118827538	12.431	Basic Scientific Research	194,481	
Defense, Department of	Pass-Through University of Wisconsin	623K070	12.431	Basic Scientific Research	64,842	_
		020100.0	.2.731	Determine resources	\$ 7,852,210 \$	2,323,526
				DOD, NDEP, DOTC-STEM Education Outreach	÷ 7,052,210 \$	2,525,520
Defense, Department of	Direct	FA9453-17-2-0010	12.560	Implementation	\$ 9,170 \$	
Defense, Department of	Direct	ST1409-18-03	12.617	Economic Adjustment Assistance for State Governments	\$ (50) \$	(50
Defense, Department of	Direct	ST1409-19-04 (HQ00051910044)	12.617	Economic Adjustment Assistance for State Governments	657,943	263,138
, Department of		511105 15 01 (11200051510044)	12.017		\$ 657,893 \$	263,088
				Basic, Applied, and Advanced Research in Science and	÷ 051,075 ¢	200,000
Defense, Department of	Direct	W911NF2020087	12.630	Engineering	\$ 82,240 \$	
, Separanene or			12.050	Basic, Applied, and Advanced Research in Science and	÷ 02,240 Ø	
Defense, Department of	Direct	W912HZ2120011	12.630	Engineering	41,263	
			12.050			

Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Assistance Listi Number	Assistance Listing Program Title	Federal Expenditures to	assed-Through Subrecipients
		*			Basic, Applied, and Advanced Research in Science and		
Defense, Department of	Pass-Through American Lightweight	Materials Manufacturing Innovation Institute	0007	12.630	Engineering Basic, Applied, and Advanced Research in Science and	(7,755)	-
efense, Department of	Pass-Through Digital Manufacturing	and Design Innovation Institute	2020-04-С	12.630	Engineering	30,000	_
ereille, Deparatien of	Tuss Through Dignar Manaraeta ng	and Besign finite fation institute	2020 01 0	12:000		\$ 145,748 \$	-
efense, Department of		ndation for the Advancement of Military Medicine, Inc (HJF)	2879	12.750	Uniformed Services University Medical Research Projects	\$ (6,733) \$	-
Defense, Department of		ndation for the Advancement of Military Medicine, Inc (HJF)	4826	12.750	Uniformed Services University Medical Research Projects	(3,724)	-
Defense, Department of		ndation for the Advancement of Military Medicine, Inc (HJF)	5341	12.750	Uniformed Services University Medical Research Projects	2,544,948	-
Defense, Department of Defense, Department of	Pass-Through Henry M. Jackson Fou Pass-Through Indiana University	ndation for the Advancement of Military Medicine, Inc (HJF)	5695 IN-4486955-UM/PO0021119	12.750 12.750	Uniformed Services University Medical Research Projects	80,478 28,391	-
Defense, Department of	Pass-Through The Geneva Foundatio	n	S-11044-01	12.750	Uniformed Services University Medical Research Projects Uniformed Services University Medical Research Projects	25,391	-
seconde, 2 optimient of	Tuss Through The General Foundation	••	5 11011 01	12.750	Simonica Services Christiany measurement rojects	\$ 2,668,758 \$	-
Defense, Department of	Direct		FA2386-18-1-4086	12.800	Air Force Defense Research Sciences Program	\$ 93,800 \$	-
Defense, Department of	Direct		FA8650-17-2-2208	12.800	Air Force Defense Research Sciences Program	616,575	122,550
Defense, Department of	Direct		FA8650-19-2-2213	12.800	Air Force Defense Research Sciences Program	44,117	-
Defense, Department of	Direct		FA8750-19-2-0006	12.800	Air Force Defense Research Sciences Program	31	-
Defense, Department of Defense, Department of	Direct Direct		FA9550-14-1-0249 FA9550-14-1-0380	12.800 12.800	Air Force Defense Research Sciences Program Air Force Defense Research Sciences Program	16,677 352,684	1,315
Defense, Department of	Direct		FA9550-15-1-0039	12.800	Air Force Defense Research Sciences Program	17,518	_
Defense, Department of	Direct		FA9550-15-1-0097	12.800	Air Force Defense Research Sciences Program	(9,096)	
Defense, Department of	Direct		FA9550-16-1-0087	12.800	Air Force Defense Research Sciences Program	453,942	258,157
Defense, Department of	Direct		FA9550-16-1-0265	12.800	Air Force Defense Research Sciences Program	(818)	-
befense, Department of	Direct		FA9550-16-1-0272	12.800	Air Force Defense Research Sciences Program	(551)	-
Defense, Department of	Direct		FA9550-16-1-0312	12.800	Air Force Defense Research Sciences Program	181,561	-
Defense, Department of	Direct		FA9550-17-1-0035	12.800	Air Force Defense Research Sciences Program	(240)	-
Defense, Department of Defense, Department of	Direct Direct		FA9550-17-1-0172 FA9550-17-1-0195	12.800 12.800	Air Force Defense Research Sciences Program Air Force Defense Research Sciences Program	4,302 707,038	420,092
Defense, Department of	Direct		FA9550-17-1-0195	12.800	Air Force Defense Research Sciences Program	36,336	420,092
Defense, Department of	Direct		FA9550-17-1-0284	12.800	Air Force Defense Research Sciences Program	70,126	_
Defense, Department of	Direct		FA9550-17-1-0457	12.800	Air Force Defense Research Sciences Program	124,447	-
Defense, Department of	Direct		FA9550-18-1-0028	12.800	Air Force Defense Research Sciences Program	179,096	40,369
Defense, Department of	Direct		FA9550-18-1-0091	12.800	Air Force Defense Research Sciences Program	49,928	-
Defense, Department of	Direct		FA9550-18-1-0131	12.800	Air Force Defense Research Sciences Program	77,321	-
Defense, Department of	Direct		FA9550-18-1-0153	12.800	Air Force Defense Research Sciences Program	89,358	-
Defense, Department of	Direct		FA9550-18-1-0162	12.800	Air Force Defense Research Sciences Program	206,916	-
Defense, Department of Defense, Department of	Direct Direct		FA9550-18-1-0168 FA9550-18-1-0171	12.800 12.800	Air Force Defense Research Sciences Program Air Force Defense Research Sciences Program	213,667 19,930	-
Defense, Department of	Direct		FA9550-18-1-0180	12.800	Air Force Defense Research Sciences Program	49,322	47,087
Defense, Department of	Direct		FA9550-18-1-0315	12.800	Air Force Defense Research Sciences Program	114,414	-
Defense, Department of	Direct		FA9550-18-1-0343	12.800	Air Force Defense Research Sciences Program	174,692	-
Defense, Department of	Direct		FA9550-18-1-0434	12.800	Air Force Defense Research Sciences Program	19,253	-
Defense, Department of	Direct		FA9550-18-1-0466	12.800	Air Force Defense Research Sciences Program	81,184	-
Defense, Department of	Direct		FA9550-18-1-0476	12.800	Air Force Defense Research Sciences Program	208,678	-
Defense, Department of	Direct		FA9550-19-1-0013	12.800	Air Force Defense Research Sciences Program	132,819	-
Defense, Department of Defense, Department of	Direct Direct		FA9550-19-1-0022 FA9550-19-1-0026	12.800 12.800	Air Force Defense Research Sciences Program Air Force Defense Research Sciences Program	98,776 76,784	-
Defense, Department of	Direct		FA9550-19-1-0020	12.800	Air Force Defense Research Sciences Program	211,749	-
Defense, Department of	Direct		FA9550-19-1-0022	12.800	Air Force Defense Research Sciences Program	246,019	_
Defense, Department of	Direct		FA9550-19-1-0123	12.800	Air Force Defense Research Sciences Program	(741)	-
Defense, Department of	Direct		FA9550-19-1-0175	12.800	Air Force Defense Research Sciences Program	223,372	-
Defense, Department of	Direct		FA9550-19-1-0186	12.800	Air Force Defense Research Sciences Program	1,227	-
Defense, Department of	Direct		FA9550-19-1-0267	12.800	Air Force Defense Research Sciences Program	114,219	48,518
Defense, Department of	Direct		FA9550-19-1-0320	12.800	Air Force Defense Research Sciences Program	11,059	-
Defense, Department of Defense, Department of	Direct		FA9550-20-1-0014	12.800	Air Force Defense Research Sciences Program	106,041	-
Defense, Department of Defense, Department of	Direct Direct		FA9550-20-1-0028 FA9550-20-1-0045	12.800 12.800	Air Force Defense Research Sciences Program Air Force Defense Research Sciences Program	183,740 145,171	81,186
Defense, Department of	Direct		FA9550-20-1-0045 FA9550-20-1-0214	12.800	Air Force Defense Research Sciences Program	143,171 123,381	-
Defense, Department of	Direct		FA9550-20-1-0265	12.800	Air Force Defense Research Sciences Program	68,823	-
Defense, Department of	Direct		FA9550-20-1-0380	12.800	Air Force Defense Research Sciences Program	255,319	-
Defense, Department of	Direct		FA9550-20-1-0385	12.800	Air Force Defense Research Sciences Program	41,847	-
Defense, Department of	Direct		FA9550-20-1-0406	12.800	Air Force Defense Research Sciences Program	82,170	-
Defense, Department of	Direct		FA9550-20-1-0425	12.800	Air Force Defense Research Sciences Program	42,138	-
Defense, Department of	Direct		FA9550-21-1-0032	12.800 12.800	Air Force Defense Research Sciences Program	80,790 67,562	-
Defense, Department of Defense, Department of	Direct Direct		FA9550-21-1-0065 FA9550-21-1-0166	12.800	Air Force Defense Research Sciences Program Air Force Defense Research Sciences Program	67,562 51,157	-
Defense, Department of	Direct		FA9550-21-1-0186	12.800	Air Force Defense Research Sciences Program	14,929	-
Defense, Department of	Pass-Through Massachusetts Institut	e of Technology	5710003831	12.800	Air Force Defense Research Sciences Program	145,137	-
Defense, Department of	Pass-Through Michigan State Univer		RC108022UM	12.800	Air Force Defense Research Sciences Program	305,706	-
Defense, Department of	Pass-Through Ohio State University,		60072253	12.800	Air Force Defense Research Sciences Program	103,491	-
Defense, Department of	Pass-Through Ohio State University,		60077514	12.800	Air Force Defense Research Sciences Program	99,415	-
Defense, Department of	Pass-Through The City University of		CM00001530-00	12.800	Air Force Defense Research Sciences Program	249,026	-
Defense, Department of	Pass-Through The University of Texa	as at Austin	UTA21-000025	12.800	Air Force Defense Research Sciences Program	10,583	

				Assistance List				sed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal F	xpenditures to S	Subrecipients
Defense, Department of	Pass-Through The University of T		100002216	12.800	Air Force Defense Research Sciences Program		470	-
Defense, Department of	Pass-Through University of Califo		0205 G XA212	12.800	Air Force Defense Research Sciences Program		53,208	-
Defense, Department of	Pass-Through University of Califo		0205 G XA213	12.800	Air Force Defense Research Sciences Program		165,567	-
Defense, Department of	Pass-Through University of Califo		A19-0790-S001	12.800	Air Force Defense Research Sciences Program		39,002	-
Defense, Department of	Pass-Through University of Colora	ado Boulder	1553899	12.800	Air Force Defense Research Sciences Program		172,813	-
Defense, Department of	Pass-Through University of Illinois	s-Urbana-Champaign	084272-16074	12.800	Air Force Defense Research Sciences Program		283,530	-
Defense, Department of	Pass-Through University of Maryl		58333-Z8143003	12.800	Air Force Defense Research Sciences Program		21,884	-
Defense, Department of	Pass-Through University of New M		271704-871E	12.800	Air Force Defense Research Sciences Program		314,041	-
Beteinse, Beparanene of	rass rinough chirefoldy of rices r	inexies.	2/1/01 0/12	12.000	Thi Force Defense Research Sciences Frogram	\$	8,534,432 \$	1,019,274
Defense, Department of	Direct		FA8650-19-1-7997	12.901	Mathematical Sciences Grants	\$	121,723 \$	1,017,274
Defense, Department of			H98230-19-1-0117	12.901		φ	2,400	-
	Direct				Mathematical Sciences Grants			-
Defense, Department of	Direct		H98230-20-1-0018 CLIN0001 AA	12.901	Mathematical Sciences Grants		35,451	-
						\$	159,574 \$	-
Defense, Department of	Direct		D16AP00004	12.910	Research and Technology Development	\$	3,658 \$	-
Defense, Department of	Direct		D18AP00076	12.910	Research and Technology Development		127,556	-
Defense, Department of	Direct		D19AP00079	12.910	Research and Technology Development		231,806	-
Defense, Department of	Direct		FA8750-19-1-0501	12.910	Research and Technology Development		216,339	171,918
Defense, Department of	Direct		HR00111720067	12.910	Research and Technology Development		831,611	
Defense, Department of	Direct			12.910	Research and Technology Development		79,360	
			HR00112010010					10 110
Defense, Department of	Direct		HR00112020011	12.910	Research and Technology Development		560,539	12,115
Defense, Department of	Direct		N66001-16-1-4006	12.910	Research and Technology Development		202,540	71,325
Defense, Department of	Direct		N66001-16-1-4029	12.910	Research and Technology Development		(21,972)	-
Defense, Department of	Direct		W56HZV-14-2-0001	12.910	Research and Technology Development		2,713	-
Defense, Department of	Direct		W56HZV-19-2-0001	12.910	Research and Technology Development		6,886,383	3,495,398
Defense, Department of	Direct		W911NF-17-1-0060	12.910	Research and Technology Development		4,482	2,641
Defense, Department of	Direct		W911NF-18-2-0266	12.910	Research and Technology Development		11,667	_
Defense, Department of	Pass-Through Arizona State Unive	ersity	ASUB00000087	12.910	Research and Technology Development		1,167,920	
· 1								-
Defense, Department of	Pass-Through Arizona State Unive		ASUB00000494	12.910	Research and Technology Development		305,358	
Defense, Department of	Pass-Through Defense, Departmer		FA8650-18-2-7844	12.910	Research and Technology Development		1,611,779	535,072
Defense, Department of	Pass-Through Defense, Departmer	nt of-Air Force, Department of the	FA8650-18-2-7864	12.910	Research and Technology Development		2,323,239	1,001,755
Defense, Department of	Pass-Through Duke University		3130713	12.910	Research and Technology Development		(5,824)	-
Defense, Department of	Pass-Through Interior, Department	it of the	D18AP00066	12.910	Research and Technology Development		308,837	-
Defense, Department of	Pass-Through Interior, Departmen	it of the	D18AP00071	12.910	Research and Technology Development		6,283	-
Defense, Department of	Pass-Through Oregon State Unive		X0212A-A	12.910	Research and Technology Development		26,145	_
Defense, Department of	Pass-Through University of Califo		00010217	12.910	Research and Technology Development		46,259	
								-
Defense, Department of	Pass-Through University of Califo		0145 G YA123	12.910	Research and Technology Development		182,261	-
Defense, Department of	Pass-Through University of Califo		105 G XA294	12.910	Research and Technology Development		71,098	-
Defense, Department of	Pass-Through University of Califo		11962SC	12.910	Research and Technology Development		148,329	-
Defense, Department of	Pass-Through University of Califo	rnia-San Diego	104629610 (S9001976)	12.910	Research and Technology Development		193,357	-
Defense, Department of	Pass-Through University of Penns	vlvania	574468	12.910	Research and Technology Development		242,985	-
Defense, Department of	Pass-Through University of Wisco		000000444	12.910	Research and Technology Development		188,543	-
						\$	15,953,251 \$	5,290,224
Defense, Department of	Direct		20-EPA-RQ-03	12.RD		\$	64,753 \$	
Defense, Department of	Direct		FA8650-16-C-5235	12.RD		Ψ	(1,539)	
				12.RD			108,846	
Defense, Department of	Direct		FA8650-19-C-1831					-
Defense, Department of	Direct		FA8650-19-C-9105	12.RD			1,060,072	-
Defense, Department of	Direct		FA8750-19-C-0531	12.RD			226,803	-
Defense, Department of	Direct		FA9550-20-1-0191	12.RD			275,208	-
Defense, Department of	Direct		Goodson IPA	12.RD			134,505	-
Defense, Department of	Direct		H98230-21-1-0020	12.RD			30,169	-
Defense, Department of	Direct		HDTRA1-17-C-0001	12.RD			(293)	-
Defense, Department of	Direct		HDTRA1-17-C-0001	12.RD			568,101	519,072
								519,072
Defense, Department of	Direct		HDTRA1-17-C-0001-CLIN4001	12.RD			141,095	-
Defense, Department of	Direct		HDTRA117C0046/CLIN003	12.RD			8,380	-
Defense, Department of	Direct		HDTRA117C0046/CLIN004	12.RD			223,089	-
Defense, Department of	Direct		HDTRA118C0073	12.RD			631,039	-
	Direct		HDTRA118C0073	12.RD			583,320	-
Defense, Department of	Direct			12.RD			302,586	-
			HD1KA119C0054					177,440
Defense, Department of	Direct		HDTRA119C0054 HR001118C0019				197,576	
Defense, Department of Defense, Department of	Direct Direct		HR001118C0019	12.RD			197,576 198,128	1//,440
Defense, Department of Defense, Department of Defense, Department of	Direct Direct Direct		HR001118C0019 N00014-18-C-1025	12.RD 12.RD			198,128	- 1/7,440
Defense, Department of Defense, Department of Defense, Department of Defense, Department of	Direct Direct Direct Direct		HR001118C0019 N00014-18-C-1025 N00014-19-C-1029	12.RD 12.RD 12.RD			198,128 108,971	-
Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct		HR001118C0019 N00014-18-C-1025 N00014-19-C-1029 N00014-19-C-1029	12.RD 12.RD 12.RD 12.RD			198,128 108,971 18,833	
Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct Direct		HR001118C0019 N00014-18-C-1025 N00014-19-C-1029 N00014-19-C-1029 N00140-06-G-0028	12.RD 12.RD 12.RD 12.RD 12.RD 12.RD			198,128 108,971 18,833 3,100	
Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct		HR001118C0019 N00014-18-C-1025 N00014-19-C-1029 N00014-19-C-1029	12.RD 12.RD 12.RD 12.RD			198,128 108,971 18,833	
Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct Direct		HR001118C0019 N00014-18-C-1025 N00014-19-C-1029 N00014-19-C-1029 N00140-06-G-0028	12.RD 12.RD 12.RD 12.RD 12.RD 12.RD			198,128 108,971 18,833 3,100 288,328	
Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct Direct Direct Direct		HR001118C0019 N00014-18-C-1025 N00014-19-C-1029 N00014-19-C-1029 N00140-06-G-0028 N6133120D0003 N6133120D0003	12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD			198,128 108,971 18,833 3,100 288,328 18,203	1/7,440 - - - - - - - - -
Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct Direct Direct Direct Direct		HR001118C0019 N00014-18-C-1025 N00014-19-C-1029 N0014-19-C-1029 N00140-06-G-0028 N6133120D0003 N6133120D0003 N6600120C4026	12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD			198,128 108,971 18,833 3,100 288,328 18,203 295,259	1/7,440 - - - - - - - - - -
Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct		HR001118C0019 N00014-18-C-1025 N00014-19-C-1029 N0014-19-C-1029 N00140-06-G-0028 N6133120D0003 N6133120D0003 N66000120C4026 W81EWF10541885	12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD			198,128 108,971 18,833 3,100 288,328 18,203 295,259 15,533	
Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct		HR001118C0019 N00014-18-C-1025 N00014-19-C-1029 N00140-06-G-0028 N6133120D0003 N6133120D0003 N6600120C4026 W81EWF10541885 W81XWH-17-C-0246	12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD			198,128 108,971 18,833 3,100 288,328 18,203 295,259 15,533 143,223	
Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct		HR001118C0019 N00014-18-C-1025 N00014-19-C-1029 N00140-6-G-0028 N6133120D0003 N6133120D0003 N6600120C4026 W81EWF10541885 W81EWF10541885 W81XWH-17-C-0246 W81XWH1810078	12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD			198,128 108,971 18,833 3,100 288,328 18,203 295,259 15,533 143,223 793,781	1//,440 - - - - - - - - - - - - - - -
Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct		HR001118C0019 N00014-18-C-1025 N00014-19-C-1029 N0014-19-C-1029 N00140-06-G-0028 N6133120D0003 N6600120C4026 W81EWF10541885 W81XWH-17-C-0246 W81XWH1810078 W81XWH1810443	12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD			198,128 108,971 18,833 3,100 288,328 18,203 295,259 15,533 143,223 793,781 188,705	1//,440 - - - - - - - - - - - - - -
Defense, Department of Defense, Department of	Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct		HR001118C0019 N00014-18-C-1025 N00014-19-C-1029 N00140-6-G-0028 N6133120D0003 N6133120D0003 N6600120C4026 W81EWF10541885 W81EWF10541885 W81XWH-17-C-0246 W81XWH1810078	12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD 12.RD			198,128 108,971 18,833 3,100 288,328 18,203 295,259 15,533 143,223 793,781	1//,440 - - - - - - - - - - - - - - - - - -

Cluster Title/Federal Grantor/Program Defense, Department of Defense, Department of Defense, Department of	Terre	Deve Thursde Counter	Award Identifier	Assistance Listin	g Assistance Listing Program Title	Federal Expenditu		ed-Through
Defense, Department of	Type Direct	Pass-Through Grantor	W912HQ19P0097	Number 12.RD	Assistance Listing Program Title	14,92		ibrecipients -
	Direct		W912HZ20P0107	12.RD		120,88		_
	Pass-Through Daniel H. Wagner Asso	ciates, Inc.	129541-0001	12.RD		113,20		-
Defense, Department of	Pass-Through Eagle Harbor Technolog		Research Agreement	12.RD		42,88		-
Defense, Department of	Pass-Through Eaton Corporation		0011-43541	12.RD		20,4		-
Defense, Department of	Pass-Through Eaton Corporation		0011-44566	12.RD		61,33	32	-
Defense, Department of	Pass-Through ERC, Inc.		PS190002	12.RD		(14,19	95)	-
Defense, Department of	Pass-Through Georgia Institute of Tech	hnology	AWD-001331-S7	12.RD		68,6	12	-
Defense, Department of	Pass-Through Great Lakes Sound and	Vibration	GLSV09436	12.RD		4,28	89	-
Defense, Department of	Pass-Through H3D, Inc.		Research Agreement	12.RD		22,74		-
Defense, Department of	Pass-Through Innoveering, LLC,		5212-01	12.RD		20,98		-
Defense, Department of	Pass-Through Innoveering, LLC,		N6833521C0077	12.RD		41,32		-
Defense, Department of	Pass-Through Innovision LLC		Research Agreement	12.RD		81,39		-
Defense, Department of	Pass-Through iReprogram, LLC		Roundtable Research Agreement	12.RD		88,47		-
Defense, Department of	Pass-Through Johns Hopkins Universit		151533	12.RD		210,9		106,677
Defense, Department of	Pass-Through Kapteyn-Murnane Labo	oratories, Inc	Res Agrmt # 19953	12.RD		(3,63		-
Defense, Department of	Pass-Through Kitware, Inc		K003088-00-S06	12.RD		14,39		-
Defense, Department of	Pass-Through Leidos, Inc.		P010183085	12.RD		29,58		-
Defense, Department of	Pass-Through Leidos, Inc.		P010217713	12.RD		633,28		-
Defense, Department of	Pass-Through Martin Defense Group		SCN09767	12.RD		456,48		-
Defense, Department of	Pass-Through Montana State Universit		CS000241	12.RD		200,04		-
Defense, Department of	Pass-Through National Center for Mar		201968-140995 Subaward Contract	12.RD 12.RD		43,74		-
Defense, Department of	Pass-Through Oceanografic de Valenci	18	Subaward Contract			110,29		-
Defense, Department of	Pass-Through Optimal Solutions	tor (BABC)	Research Agreement P315663	12.RD 12.RD		22,70 14,34		-
Defense, Department of	Pass-Through Palo Alto Research Cent			12.RD		92,68		-
Defense, Department of Defense, Department of	Pass-Through Radiation Monitoring D Pass-Through SenSigma LLC	evices, inc.	RMD Subcontract C19-22	12.RD		92,60		-
Defense, Department of	Pass-Through SRI International		Roundtable Research Agreement PO55018	12.RD		27,12		-
Defense, Department of	Pass-Through Stealth Software Techno	alagias Ina	Subcontract Agreement	12.RD		76,85		-
Defense, Department of	Pass-Through The Feinstein Institutes		500773UM	12.RD		10,52		-
Defense, Department of	Pass-Through Toyon Research Corpor		SC20-F187-1	12.RD		(4,7)		-
Defense, Department of	Pass-Through Toyon Research Corpor		SC20-F187-1 SC21F222-1-P662	12.RD		60,1		-
Defense, Department of	Pass-Through UES, Inc.	ation	S-977-07K-001	12.RD		16,69		_
Defense, Department of	Pass-Through University of California	- San Francisco	11180sc	12.RD		20,02		_
Defense, Department of	Pass-Through University of Dayton	Surrinebeo	RSC17064	12.RD		(65		_
Defense, Department of	Pass-Through University of Illinois-Ur	bana-Champaign	078122-15632	12.RD		430,54		-
Defense, Department of	Pass-Through Wayne State University		WSU18060	12.RD		(80		_
Defense, Department of	Pass-Through Wayne State University		WSU18080	12.RD		(33,94		_
Defense, Department of	Pass-Through Westat, Inc.		6367-S01/W81XWH-15-C-0128	12.RD		(18,7)		-
Defense, Department of	Pass-Through Wright State University		670956-1	12.RD		58,58		-
Defense, Department of	Pass-Through Xallent, LLC		140D0419C0096	12.RD		46,64		-
	e ,					\$ 10,189,29	94 \$	803,189
			Total Defense, Department of			\$ 73,729,67	73 \$	11,586,529
Housing and Urban Development, Department of	Pass-Through Johns Hopkins Universit	ty	JHU Grant 19740/Task Order #7	14.506	General Research and Technology Activity	\$ 698,72	21 \$	-
Housing and Urban Development, Department of	Pass-Through Michigan, State of, Civi	il Rights, Department of	Memorandum of Understanding	14.RD		\$ 15,20	64 \$	-
			Total Housing and Urban Development	t, Department of		\$ 713,98	85 <b>\$</b>	-
Interior, Department of the	Direct		G20AC00114-01	15.808	U.S. Geological Survey Research and Data Collection		67 \$	-
Interior, Department of the	Direct		G20AC00454	15.808	U.S. Geological Survey Research and Data Collection	32,27		-
						\$ 104,94		-
Interior, Department of the	Direct		G19AC00138	15.810	National Cooperative Geologic Mapping		44 \$	-
Interior, Department of the	Direct		P18AC00009	15.944	Natural Resource Stewardship		85 \$	-
Interior, Department of the	Direct		Josh Miller IPA	15.RD			07 \$	-
			Total Interior, Department of the			\$ 152,22	/8 \$	-
Justice, Department of	Direct		2016-WL-AX-0029	16.524	Legal Assistance for Victims	\$ 155,08	84 \$	15,557
	Direct		2020-WA-AX-0011	16.525	Grants to Reduce Domestic Violence, Dating Violence, Sexua Assault, and Stalking on Campus		37 \$	-
Justice, Department of			2017 CV DV 0002		National Institute of Justice Research, Evaluation, and			
Justice, Department of	Direct		2017-CK-BX-0002	16.560	Development Project Grants National Institute of Justice Research, Evaluation, and	156,74	46	-
Justice, Department of Justice, Department of			2019-MU-MU-0004	16.560	Development Project Grants	83,72	25	7,284
	Direct		2019-100-0004			00,71		
Justice, Department of	Direct		2020-VA-CX-0004	16.560	National Institute of Justice Research, Evaluation, and Development Project Grants	57,8		-
Justice, Department of Justice, Department of		ity		16.560 16.560			70	-
Justice, Department of Justice, Department of Justice, Department of Justice, Department of	Direct Pass-Through Michigan State Universi		2020-VA-CX-0004 RC105817 UM	16.560	Development Project Grants National Institute of Justice Research, Evaluation, and Development Project Grants National Institute of Justice Research, Evaluation, and	57,81	70 32	-
Justice, Department of Justice, Department of Justice, Department of Justice, Department of	Direct Pass-Through Michigan State Universi Pass-Through Michigan State Universi	ity	2020-VA-CX-0004 RC105817 UM RC109364 - UM	16.560 16.560	Development Project Grants National Institute of Justice Research, Evaluation, and Development Project Grants National Institute of Justice Research, Evaluation, and Development Project Grants National Institute of Justice Research, Evaluation, and	57,81 121,42 9,41	70 32 79	-
Justice, Department of Justice, Department of Justice, Department of Justice, Department of	Direct Pass-Through Michigan State Universi	ity	2020-VA-CX-0004 RC105817 UM	16.560	Development Project Grants National Institute of Justice Research, Evaluation, and Development Project Grants National Institute of Justice Research, Evaluation, and Development Project Grants	57,81	70 32 79 29	

				Assistance Listi				ssed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federa	l Expenditures to S	Subrecipients
Justice, Department of	Direct		2019-FA-BX-0011	16.746	Capital Case Litigation Initiative	\$	118,333 \$	-
ustice, Department of	Pass-Through Michigan, State of, Sta	te Police	COAP-18-01	16.754	Harold Rogers Prescription Drug Monitoring Program	\$	100,739 \$	-
ustice, Department of	Direct		2019-YS-BX-K001	16.839	STOP School Violence	\$	1,452,974 \$	320,725
Justice, Department of	Direct		DJO-BJS-17-RO-0253	16.RD		\$	2,804,181 \$	-
Justice, Department of	Pass-Through Hamilton Community F	Iealth Network	2017-AJ-BX-0007	16.RD			51,017	-
						\$	2,855,198 \$	-
			Total Justice, Department of			\$	5,430,146 \$	343,566
Labor, Department of	Pass-Through UnidosUS		Counsultant Agreement	17.270	Reentry Employment Opportunities	¢	27 705 \$	
Labor, Department of	Pass-Through OndosOS		Total Labor, Department of	17.270	Reentry Employment Opportunities	\$	27,795 \$ 27,795 \$	
			Polar Europi, Deparament of				21,175 0	
					International Programs to Support Democracy, Human Rigl			
State, Department of	Direct		S-LMAQM-15-GR-1129	19.345	and Labor	\$	(113) \$	223
					International Programs to Support Democracy, Human Right	nts		
State, Department of	Direct		SLMAQM20GR2132	19.345	and Labor		373,690	<u> </u>
						\$	373,577 \$	223
State, Department of	Pass-Through Princeton University		SUB0000247	19.500	Middle East Partnership Initiative	\$	110,447 \$	-
State, Department of	Pass-Through Princeton University		SUB0000379	19.500	Middle East Partnership Initiative		86,744	-
State, Department of	Pass-Through Princeton University		SUB0000470	19.500	Middle East Partnership Initiative		11,751	-
						\$	208,942 \$	-
State, Department of	Pass-Through Psiphon Inc		Roundtable Research Agreement	19.RD		\$	22,822 \$	-
			Total State, Department of			\$	605,341 \$	223
Transportation, Department of	Direct		692M152040002	20.108	Aviation Research Grants	\$	50,430 \$	
Transportation, Department of	Direct		692M152140001	20.108	Aviation Research Grants	φ	30,430 \$ 83,572	-
Transportation, Department of	Blicet		09210102140001	20.108	Aviation Research Grants	\$	134,002 \$	-
Transportation Donartmont of	Bass Through Georgia Institute of Ta	halogy	AWD-001222-G1	20.109	Air Transportation Contars of Excellance	\$	94,929 \$	-
Transportation, Department of	Pass-Through Georgia Institute of Tec			20.109	Air Transportation Centers of Excellence Highway Research and Development Program		66,781 \$	-
Transportation, Department of	Pass-Through Crash Avoidance Metri	cs Partnersnip (CAMP)	CAMP0000329			\$		-
Transportation, Department of	Direct		693JJ32145054	20.215	Highway Training and Education	\$	5,000 \$	-
Transportation, Department of	Direct		69A3551747105	20.701	University Transportation Centers Program	\$	2,850,366 \$	1,496,999
Transportation, Department of	Direct		693JJ319C000009	20.RD		\$	337,151 \$	-
Fransportation, Department of	Direct		693JJ921D000016	20.RD			5,619	-
Transportation, Department of	Direct		693JJ921D000021	20.RD			251	-
Transportation, Department of	Direct		DTNH221400329L/693JJ919F000166	20.RD			280,396	-
Transportation, Department of	Direct		DTNH221400329L/693JJ919F000214	20.RD			1,219,728	-
Transportation, Department of	Direct		DTNH2214D00329L693JJ918F000224	20.RD			691,616	-
Transportation, Department of	Direct		DTNH2214D00329L693JJ918F000226	20.RD			108,256	68,257
Transportation, Department of	Direct		DTNH2215D00017/693JJ918F000234	20.RD			612,862	23,442
Transportation, Department of	Direct		DTNH2215D00017/693JJ919F000139	20.RD			420,357	4,613
Transportation, Department of	Direct		DTNH2217D00041/693JJ920F000195	20.RD			129,093	-
Transportation, Department of	Pass-Through Michigan, State of, Tra	insportation, Department of	2016-0068 Z2	20.RD			(11,038)	-
Transportation, Department of	Pass-Through Michigan, State of, Tra		2021-0200	20.RD			7,149	-
Transportation, Department of	Pass-Through Michigan, State of, Tra		2021-0409	20.RD			173,031	-
Transportation, Department of	Pass-Through Mitre Corporation		125094 TO # 2-135713	20.RD			2,209	-
			Total Transportation, Department of			\$ \$	3,976,680 \$ 7,127,758 \$	96,312 1,593,311
				<b>31</b> 000		ć		
Treasury, Department of the	Direct Direct		20-LITC0343-03-00 21-LITC0506-01-00	21.008 21.008	Low Income Taxpayer Clinics	\$	22,305 \$ 72,758	-
Treasury, Department of the	Dilect		21-21100500-01-00	21.008	Low Income Taxpayer Clinics	\$	95,063 \$	
Treasury, Department of the	Pass-Through Michigan Public Health	Institute	Agreement	21.RD		\$	363,026 \$	-
Freasury, Department of the		alth and Human Services, Department of	E20204709-00	21.RD		-	1,723	-
· · · · · · · · · · · · · · · · · · ·						\$	364,749 \$	-
			Total Treasury, Department of the			\$	459,812 \$	-
	<b>B</b> . (		C A 16720090	12.00		¢	222.295	
Library of Congress	Direct		GA16C0089 Total Library of Congress	42.RD		\$	232,385 \$ 232,385 \$	-
National Aeronautics and Space Administration	Direct		80NSSC17K0015	43.001	Science	\$	223,937 \$	9,083.00
National Aeronautics and Space Administration	Direct		80NSSC17K0116	43.001	Science	Ψ	43,165	2,005.00
National Aeronautics and Space Administration	Direct		80NSSC17K0110	43.001	Science		37,725	16,329
National Aeronautics and Space Administration	Direct		80NSSC17K0212 80NSSC17K0323	43.001	Science		5,709	10,529
1			80NSSC17K0323 80NSSC17K0380	43.001			5,709	-
National Aeronautics and Space Administration	Direct Direct		80NSSC17K0380 80NSSC17K0382		Science Science			-
National Aeronautics and Space Administration				43.001			5,709	-
National Aeronautics and Space Administration	Direct		80NSSC17K0453	43.001	Science		5,443	-
National Aeronautics and Space Administration	Direct		80NSSC17K0493	43.001	Science		(164)	-
1	Direct		80NSSC17K0604	43.001	Science		5,248	-
	Direct		80NSSC17K0681	43.001	Science		189,627	27,577
National Aeronautics and Space Administration			000100001010000	42 001	Science		169,815	65,416
National Aeronautics and Space Administration	Direct		80NSSC17K0686	43.001	Science		109,815	05,410
National Aeronautics and Space Administration National Aeronautics and Space Administration National Aeronautics and Space Administration			80NSSC17K0686 80NSSC17K0728	43.001	Science		129,370	-
National Aeronautics and Space Administration National Aeronautics and Space Administration National Aeronautics and Space Administration National Aeronautics and Space Administration National Aeronautics and Space Administration	Direct							-

Charter Title / Fadaral Counter / Duaman	<b>T</b>	Base Thursday Counter	A	Assistance Listi	ing	A sub-tana a Listing Baranan Title		assed-Through
Cluster Title/Federal Grantor/Program National Aeronautics and Space Administration	Type Direct	Pass-Through Grantor	Award Identifier 80NSSC18K0647	43.001	Science	Assistance Listing Program Title	Federal Expenditures to 149,125	Subrecipients
National Aeronautics and Space Administration	Direct		80NSSC18K0717	43.001	Science		89,198	_
National Aeronautics and Space Administration	Direct		80NSSC18K0802	43.001	Science		37,244	-
National Aeronautics and Space Administration	Direct		80NSSC18K0882	43.001	Science		1,221	-
National Aeronautics and Space Administration	Direct		80NSSC18K0900	43.001	Science		77,454	-
National Aeronautics and Space Administration	Direct		80NSSC18K0978	43.001	Science		17,275	-
National Aeronautics and Space Administration	Direct		80NSSC18K0986	43.001	Science		47,118	-
National Aeronautics and Space Administration	Direct		80NSSC18K1000	43.001	Science		42,475	-
National Aeronautics and Space Administration	Direct		80NSSC18K1005	43.001	Science		72,790	
National Aeronautics and Space Administration	Direct		80NSSC18K1033	43.001	Science		188,538	17,555
National Aeronautics and Space Administration	Direct		80NSSC18K1060	43.001	Science		128,211	19,972
National Aeronautics and Space Administration National Aeronautics and Space Administration	Direct Direct		80NSSC18K1120 80NSSC18K1121	43.001 43.001	Science Science		44,541 44,541	-
National Aeronautics and Space Administration	Direct		80NSSC18K1121 80NSSC18K1137	43.001	Science		103,099	-
National Aeronautics and Space Administration	Direct		80NSSC18K1208	43.001	Science		152,684	56,106
National Aeronautics and Space Administration	Direct		80NSSC18K1238	43.001	Science		43,816	-
National Aeronautics and Space Administration	Direct		80NSSC18K1240	43.001	Science		121,665	-
National Aeronautics and Space Administration	Direct		80NSSC18K1280	43.001	Science		163,299	-
National Aeronautics and Space Administration	Direct		80NSSC18K1363	43.001	Science		116,494	-
National Aeronautics and Space Administration	Direct		80NSSC18K1454	43.001	Science		7,055	-
National Aeronautics and Space Administration	Direct		80NSSC18K1553	43.001	Science		164,941	78,148
National Aeronautics and Space Administration	Direct		80NSSC18K1596	43.001	Science		147,789	-
National Aeronautics and Space Administration	Direct		80NSSC18K1604	43.001	Science		14,541	-
National Aeronautics and Space Administration	Direct		80NSSC18K1617	43.001	Science		24,735	-
National Aeronautics and Space Administration	Direct		80NSSC18K1641	43.001	Science		27,050	-
National Aeronautics and Space Administration	Direct		80NSSC19K0003	43.001	Science		(21,114)	-
National Aeronautics and Space Administration National Aeronautics and Space Administration	Direct		80NSSC19K0092	43.001 43.001	Science		82,602 20,982	-
National Aeronautics and Space Administration	Direct Direct		80NSSC19K0168 80NSSC19K0169	43.001	Science Science		33,537	-
National Aeronautics and Space Administration	Direct		80NSSC19K0109	43.001	Science		37,270	-
National Aeronautics and Space Administration	Direct		80NSSC19K0373	43.001	Science		116,339	_
National Aeronautics and Space Administration	Direct		80NSSC19K0457	43.001	Science		88,393	-
National Aeronautics and Space Administration	Direct		80NSSC19K0564	43.001	Science		51,901	-
National Aeronautics and Space Administration	Direct		80NSSC19K0579	43.001	Science		92,095	-
National Aeronautics and Space Administration	Direct		80NSSC19K0608	43.001	Science		243,694	21,108
National Aeronautics and Space Administration	Direct		80NSSC19K0640	43.001	Science		15,071	-
National Aeronautics and Space Administration	Direct		80NSSC19K0747	43.001	Science		57,020	-
National Aeronautics and Space Administration	Direct		80NSSC19K0782	43.001	Science		74,341	-
National Aeronautics and Space Administration	Direct		80NSSC19K0948	43.001	Science		76,936	-
National Aeronautics and Space Administration	Direct		80NSSC19K1013	43.001	Science		174,112	-
National Aeronautics and Space Administration	Direct		80NSSC19K1098	43.001	Science		151	-
National Aeronautics and Space Administration National Aeronautics and Space Administration	Direct Direct		80NSSC19K1331 80NSSC19K1433	43.001 43.001	Science Science		44,961 44,682	-
National Aeronautics and Space Administration	Direct		80NSSC19K1455	43.001	Science		24,155	
National Aeronautics and Space Administration	Direct		80NSSC19K1440	43.001	Science		89,980	_
National Aeronautics and Space Administration	Direct		80NSSC19K1526	43.001	Science		43,487	-
National Aeronautics and Space Administration	Direct		80NSSC19K1530	43.001	Science		50,151	-
National Aeronautics and Space Administration	Direct		80NSSC19K1534	43.001	Science		50,151	-
National Aeronautics and Space Administration	Direct		80NSSC19K1654	43.001	Science		48,861	-
National Aeronautics and Space Administration	Direct		80NSSC20K0032	43.001	Science		90,099	-
National Aeronautics and Space Administration	Direct		80NSSC20K0062	43.001	Science		107,050	-
National Aeronautics and Space Administration	Direct		80NSSC20K0185	43.001	Science		131,952	-
National Aeronautics and Space Administration	Direct		80NSSC20K0190	43.001	Science		95,316	6,773
National Aeronautics and Space Administration	Direct		80NSSC20K0353	43.001	Science		77,197	-
National Aeronautics and Space Administration	Direct		80NSSC20K0409	43.001	Science		186,788	42,152
National Aeronautics and Space Administration	Direct		80NSSC20K0509	43.001	Science		67,889	-
National Aeronautics and Space Administration	Direct		80NSSC20K0510	43.001 43.001	Science		47,488 89,974	-
National Aeronautics and Space Administration National Aeronautics and Space Administration	Direct Direct		80NSSC20K0568 80NSSC20K0600	43.001	Science Science		623,336	76,375
National Aeronautics and Space Administration	Direct		80NSSC20K0651	43.001	Science		124,674	20,159
National Aeronautics and Space Administration	Direct		80NSSC20K0051 80NSSC20K0659	43.001	Science		62,611	-
National Aeronautics and Space Administration	Direct		80NSSC20K0854	43.001	Science		51,004	-
National Aeronautics and Space Administration	Direct		80NSSC20K0877	43.001	Science		68,241	-
National Aeronautics and Space Administration	Direct		80NSSC20K0883	43.001	Science		44,394	-
National Aeronautics and Space Administration	Direct		80NSSC20K0929	43.001	Science		111,959	-
National Aeronautics and Space Administration	Direct		80NSSC20K0980	43.001	Science		51,865	36,595
National Aeronautics and Space Administration	Direct		80NSSC20K1014	43.001	Science		28,258	-
National Aeronautics and Space Administration	Direct		80NSSC20K1063	43.001	Science		62,206	-
National Aeronautics and Space Administration	Direct		80NSSC20K1135	43.001	Science		29,416	9,314
National Aeronautics and Space Administration	Direct		80NSSC20K1148	43.001	Science		14,757	-
National Aeronautics and Space Administration National Aeronautics and Space Administration	Direct		80NSSC20K1257 80NSSC20K1286	43.001	Science		22,674 975	-
	Direct			43.001	Science			

			Assistance Lis	ting			Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor Award Identifi			Assistance Listing Program Title	Federal Expenditures	to Subrecipients
National Aeronautics and Space Administration	Direct	80NSSC20K1313	43.001	Science		65,644	-
National Aeronautics and Space Administration	Direct	80NSSC20K1504	43.001	Science		38,044	-
National Aeronautics and Space Administration	Direct	80NSSC20K1541	43.001	Science		44,106	-
National Aeronautics and Space Administration	Direct	80NSSC20K1581	43.001	Science		228,960	32,777
National Aeronautics and Space Administration	Direct	80NSSC20K1615	43.001	Science		38,196	-
National Aeronautics and Space Administration National Aeronautics and Space Administration	Direct	80NSSC20K1778	43.001 43.001	Science		58,761 77,603	8,571
National Aeronautics and Space Administration	Direct Direct	80NSSC20K1779 80NSSC20K1849	43.001	Science Science		60,911	0,571
National Aeronautics and Space Administration	Direct	80NSSC21K1849 80NSSC21K0041	43.001	Science		10,222	_
National Aeronautics and Space Administration	Direct	80NSSC21K0047	43.001	Science		3,224	_
National Aeronautics and Space Administration	Direct	80NSSC21K0052	43.001	Science		1,162	_
National Aeronautics and Space Administration	Direct	80NSSC21K0097	43.001	Science		4,930	_
National Aeronautics and Space Administration	Direct	80NSSC21K0111	43.001	Science		1,002	-
National Aeronautics and Space Administration	Direct	80NSSC21K0517	43.001	Science		33,444	-
National Aeronautics and Space Administration	Direct	80NSSC21K0786	43.001	Science		21,969	-
National Aeronautics and Space Administration	Direct	80NSSC21K0906	43.001	Science		195	-
National Aeronautics and Space Administration	Direct	NNX14AF90G	43.001	Science		(3,417)	-
National Aeronautics and Space Administration	Direct	NNX15AB73G	43.001	Science		(450)	-
National Aeronautics and Space Administration	Direct	NNX15AI39G	43.001	Science		57,515	-
National Aeronautics and Space Administration	Direct	NNX15AJ68G	43.001	Science		6,622	-
National Aeronautics and Space Administration	Direct	NNX15AK79G	43.001	Science		(1,231)	-
National Aeronautics and Space Administration	Direct	NNX15AL01G	43.001	Science		(64)	-
National Aeronautics and Space Administration	Direct	NNX15AQ16G	43.001	Science		27,226	-
National Aeronautics and Space Administration	Direct	NNX16AB47G	43.001	Science		13,082	-
National Aeronautics and Space Administration	Direct	NNX16AB48G	43.001	Science		79,504	80,348
National Aeronautics and Space Administration	Direct	NNX16AC01G	43.001	Science		106,639	-
National Aeronautics and Space Administration	Direct	NNX16AC66A	43.001	Science		1,020,715	-
National Aeronautics and Space Administration	Direct	NNX16AD43G	43.001	Science		81,513	-
National Aeronautics and Space Administration	Direct	NNX16AE38G	43.001	Science		64,705	-
National Aeronautics and Space Administration	Direct	NNX16AF23G	43.001	Science		534	-
National Aeronautics and Space Administration	Direct	NNX16AH01G	43.001	Science		(2)	-
National Aeronautics and Space Administration	Direct	NNX16AH47G	43.001	Science		53	-
National Aeronautics and Space Administration	Direct	NNX16AI19G	43.001	Science		(113)	-
National Aeronautics and Space Administration	Direct	NNX16AJ54G	43.001	Science		121,379	66,654
National Aeronautics and Space Administration	Direct	NNX16AJ67G	43.001	Science		28,698	1,587
National Aeronautics and Space Administration	Direct	NNX16AL12G	43.001	Science		150,504	40,282
National Aeronautics and Space Administration	Direct	NNX16AM99G	43.001	Science		(486)	-
National Aeronautics and Space Administration	Direct	NNX16AP04H	43.001	Science		(856)	-
National Aeronautics and Space Administration	Direct	NNX16AQ04G	43.001	Science		37,443	-
National Aeronautics and Space Administration	Direct	NNX17AB87G	43.001	Science		9,907	-
National Aeronautics and Space Administration	Direct	NNX17AD37G	43.001	Science		116,980	41,273
National Aeronautics and Space Administration	Direct	NNX17AD66G	43.001	Science		20,450	-
National Aeronautics and Space Administration	Direct	NNX17AE31G	43.001	Science		26,894	-
National Aeronautics and Space Administration	Direct	NNX17AE57G	43.001	Science		34,832	-
National Aeronautics and Space Administration	Direct	NNX17AF21G	43.001	Science		3,712	-
National Aeronautics and Space Administration	Direct	NNX17AG25G	43.001	Science		116	638
National Aeronautics and Space Administration	Direct	NNX17AH55G	43.001 43.001	Science		128,597	13,594
National Aeronautics and Space Administration National Aeronautics and Space Administration	Direct Direct	NNX17AH97G NNX17AI48G	43.001	Science Science		30,832 178,316	-
National Aeronautics and Space Administration	Direct	NNX17AL460 NNX17AK19G	43.001	Science		281,491	77,669
National Aeronautics and Space Administration	Direct	NNX17AK190 NNX17AL23G	43.001	Science		197,247	183,497
National Aeronautics and Space Administration	Pass-Through Auburn University	19-PHY-209382-UM	43.001	Science		3,438	
National Aeronautics and Space Administration	Pass-Through Boston University	4500003543	43.001	Science		42,119	-
National Aeronautics and Space Administration	Pass-Through California Institute of Technologic		43.001	Science		4,472	-
National Aeronautics and Space Administration	Pass-Through George Mason University	E2048402	43.001	Science		727	-
National Aeronautics and Space Administration	Pass-Through Jet Propulsion Laboratory	1662233	43.001	Science		1,496	-
National Aeronautics and Space Administration	Pass-Through Michigan Technological Unive		43.001	Science		9,791	-
National Aeronautics and Space Administration	Pass-Through North Carolina State Universit		43.001	Science		34,649	-
National Aeronautics and Space Administration	Pass-Through Northern Arizona University	1004366-01	43.001	Science		87,716	-
National Aeronautics and Space Administration	Pass-Through Ohio State University, The	60066837 (RF01588100)	43.001	Science		74,817	-
National Aeronautics and Space Administration	Pass-Through Ohio State University, The	60078489	43.001	Science		12,638	-
National Aeronautics and Space Administration	Pass-Through Planetary Science Institute	1705-MICH	43.001	Science		28,127	-
National Aeronautics and Space Administration	Pass-Through Planetary Science Institute	1724-MICH	43.001	Science		36,765	-
National Aeronautics and Space Administration	Pass-Through Predictive Science Inc.	Research Agreement	43.001	Science		4,577	-
National Aeronautics and Space Administration	Pass-Through Predictive Science Inc.	Research Agrmt dtd 12/1/1		Science		3,197	-
National Aeronautics and Space Administration	Pass-Through Princeton University	SUB0000306	43.001	Science		19,695	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	AR0-21009X	43.001	Science		48,363	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	AR0-21011X	43.001	Science		4,655	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	AR1-22007X	43.001	Science		24,059	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	AR8-19017X	43.001	Science		4,130	-
		AD0 2000/V	43.001	Science		20,317	
National Aeronautics and Space Administration National Aeronautics and Space Administration	Pass-Through Smithsonian Institution Pass-Through Smithsonian Institution	AR9-20006X DD8-19103X	43.001	Science		1,198	-

			Assistance List				issed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal E	xpenditures to s	Subrecipients
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	DD9-20106X	43.001	Science		4,725	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	DD9-20107X	43.001	Science		21,724	-
National Aeronautics and Space Administration National Aeronautics and Space Administration	Pass-Through Smithsonian Institution Pass-Through Smithsonian Institution	DD9-20110X GO0-21013X	43.001 43.001	Science Science		2,231 12,239	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution Pass-Through Smithsonian Institution	GO0-21013X GO0-21045X	43.001	Science		12,239	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO0-21045X GO0-21086X	43.001	Science		7,330	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO0-21080X GO0-21091X	43.001	Science		19,974	
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO0-21097X	43.001	Science		32,998	_
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO0-21109X	43.001	Science		9,973	_
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO1-22096A	43.001	Science		17,593	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO7-18042X	43.001	Science		15,697	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO7-18072X	43.001	Science		3,116	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO7-18119X	43.001	Science		(305)	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO8-19019X	43.001	Science		(1,300)	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO8-19021X	43.001	Science		14,793	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO8-19027A	43.001	Science		31,626	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO8-19031X	43.001	Science		22,785	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO8-19078X	43.001	Science		9,760	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO8-19095X	43.001	Science		37,450	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO9-20027A	43.001	Science		16,685	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO9-20032X	43.001	Science		24,754	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO9-20074X	43.001	Science		4,718	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO9-20096X	43.001	Science		47,828	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	GO9-20100X	43.001	Science		14,466	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	SP8-19003X	43.001	Science		47,200	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution	SV6-86010	43.001 43.001	Science		67,559 (349)	-
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution Pass-Through Southwest Research Institute	TM9-20006X		Science		(349) 88,113	-
National Aeronautics and Space Administration National Aeronautics and Space Administration	Pass-Through Southwest Research Institute	M99032CEP N99065ZO	43.001 43.001	Science Science		39	-
National Aeronautics and Space Administration	Pass-Through Southwest Research Institute	119-000260	43.001	Science		39,277	-
National Aeronautics and Space Administration	Pass-Through The President and Fellows of Harvard College aka Harvard University	SV0-09005	43.001	Science		3,046	
National Aeronautics and Space Administration	Pass-Through The University of Texas at Austin	UTA18-000984	43.001	Science		75,293	_
National Aeronautics and Space Administration	Pass-Through Universities Space Research Association (USRA)	02310-01	43.001	Science		34,961	-
National Aeronautics and Space Administration	Pass-Through University of Alaska Fairbanks	UAF 19-0126	43.001	Science		27,881	-
National Aeronautics and Space Administration	Pass-Through University of Arizona	56701	43.001	Science		4,701	-
National Aeronautics and Space Administration	Pass-Through University of California - Berkeley	00009760	43.001	Science		19,305	-
National Aeronautics and Space Administration	Pass-Through University of California - Los Angeles	2090 G XA259	43.001	Science		61,116	-
National Aeronautics and Space Administration	Pass-Through University of Chicago	AWD100699 (SUB00000228)	43.001	Science		49,763	-
National Aeronautics and Space Administration	Pass-Through University of Chicago	SUB00000232	43.001	Science		18,309	-
National Aeronautics and Space Administration	Pass-Through University of Colorado	1554008	43.001	Science		15,104	-
National Aeronautics and Space Administration	Pass-Through University of Colorado Boulder	1559147	43.001	Science		24,025	-
National Aeronautics and Space Administration	Pass-Through University of Maryland, College Park	65304-Z6144201	43.001	Science		60,569	-
National Aeronautics and Space Administration	Pass-Through University of Maryland, College Park	83811-Z6214202	43.001	Science		164,973	-
National Aeronautics and Space Administration	Pass-Through University of Massachusetts Lowell	S5200000044032	43.001	Science		30,410	-
National Aeronautics and Space Administration	Pass-Through University of New Hampshire	L0021	43.001	Science		(838)	-
National Aeronautics and Space Administration	Pass-Through University of New Hampshire	Subaward # 18-013	43.001	Science		92,144	-
National Aeronautics and Space Administration	Pass-Through University of Wisconsin	849K951	43.001	Science		154,167	-
National Aeronautics and Space Administration	Pass-Through Woods Hole Research Center	Subcontract Agreement No. WHRC	43.001	Science	-	59,562	
N.C. 14 C. 16 41 17 C.		0010001071725	42,002		<u>\$</u>	12,139,592 \$	1,049,552
National Aeronautics and Space Administration	Direct	80NSSC18K1735	43.002	Aeronautics	5	61,140 \$	-
National Aeronautics and Space Administration	Direct	80NSSC18M0149	43.002	Aeronautics		256,841	-
National Aeronautics and Space Administration	Direct Direct	80NSSC20K1465	43.002 43.002	Aeronautics		78,581 225,047	53,778
National Aeronautics and Space Administration National Aeronautics and Space Administration		NNX16AP90A RK588-G1/AWD-102526-G1	43.002	Aeronautics		118,479	33,778
National Aeronautics and Space Administration	Pass-Through Georgia Institute of Technology Pass-Through University of Washington	UWSC11501	43.002	Aeronautics Aeronautics		248,747	-
National Actonautics and Space Administration	Tass-Through Oniversity of Washington	0 8 3 6 1 1 5 0 1	45.002	Actonautics	\$	988,835 \$	53,778
National Aeronautics and Space Administration	Direct	80NSSC20K1725	43.003	Exploration	\$	63,492 \$	55,778
National Aeronautics and Space Administration	Pass-Through Baylor College of Medicine	P0502	43.003	Exploration	φ	68,136	-
National Aeronautics and Space Administration	Pass-Through Baylor College of Medicine	Subaward Agreement	43.003	Exploration		9,754	
National Aeronautics and Space Administration	Pass-Through National Space Grant Foundation	M2M-XHab 2021-06	43.003	Exploration		2,678	_
National Aeronautics and Space Administration	Pass-Through University of Colorado Boulder	1555631	43.003	Exploration		54,496	-
-F					\$	198,556 \$	-
National Aeronautics and Space Administration	Direct	80NSSC20M0124	43.008	Office of Stem Engagement (OSTEM)	\$	406,303 \$	88,591
National Aeronautics and Space Administration	Direct	NNX15AJ20H	43.008	Office of Stem Engagement (OSTEM)		865,193	756,074
National Aeronautics and Space Administration	Direct	NNX16AI92A	43.008	Office of Stem Engagement (OSTEM)		(56)	-
*				、 /	\$	1,271,440 \$	844,665
National Aeronautics and Space Administration	Direct	NNX17AD24G	43.009	Safety, Security and Mission Services	\$	402,588 \$	105,488
National Aeronautics and Space Administration	Direct	80NSSC17K0152	43.012	Space Technology	\$	58,604 \$	-
National Aeronautics and Space Administration	Direct	80NSSC17K0156	43.012	Space Technology		64,561	-
National Aeronautics and Space Administration	Direct	80NSSC17K0157	43.012	Space Technology		70,430	-
			10.010	G T 1 1		64 110	
National Aeronautics and Space Administration National Aeronautics and Space Administration	Direct Direct	80NSSC18K1151 80NSSC18K1161	43.012 43.012	Space Technology Space Technology		64,119 55,220	-

	T		4 111	Assistance Listi			Passed-Th
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditure	
National Aeronautics and Space Administration	Direct		80NSSC18K1190 80NSSC19K0219	43.012	Space Technology	57,68	
National Aeronautics and Space Administration National Aeronautics and Space Administration	Direct Direct		80NSSC19K0219	43.012 43.012	Space Technology Space Technology	147,23 3,30	
National Aeronautics and Space Administration	Direct		80NSSC20K0295	43.012	Space Technology Space Technology	215,45	
National Aeronautics and Space Administration	Direct		80NSSC20K0295	43.012	Space Technology Space Technology	53,10	
National Aeronautics and Space Administration	Direct		80NSSC20K1164	43.012	Space Technology	53,44	
National Aeronautics and Space Administration	Direct		80NSSC20K1100	43.012	Space Technology	79,91	
National Aeronautics and Space Administration	Direct		80NSSC20K1229	43.012	Space Technology	69,64	
National Aeronautics and Space Administration	Direct		80NSSC20K1227	43.012	Space Technology	38,05	
National Aeronautics and Space Administration	Direct		80NSSC20K1868	43.012	Space Technology	65,63	
National Aeronautics and Space Administration	Direct		NNX16AM61H	43.012	Space Technology	7,40	
National Aeronautics and Space Administration	Direct		NNX16AM62H	43.012	Space Technology	1,37	
National Aeronautics and Space Administration	Direct		NNX16AM92H	43.012	Space Technology	26,94	
National Aeronautics and Space Administration	Direct		NNX16AR65G	43.012	Space Technology	36,33	
National Aeronautics and Space Administration	Direct		NNX16AT43G	43.012	Space Technology	4,44	
I					1 60	\$ 1,172,90	
National Aeronautics and Space Administration	Direct		80GSFC18C0009	43.RD		\$ 274,94	
National Aeronautics and Space Administration	Direct		80GSFC20C0052	43.RD		1,991,01	
National Aeronautics and Space Administration	Direct		80GSFC20C0075	43.RD		486,47	
National Aeronautics and Space Administration	Direct		80GSFC21C0037	43.RD		81,18	
National Aeronautics and Space Administration	Direct		80NSSC20K1583	43.RD		68,85	
National Aeronautics and Space Administration	Direct		Hansen IPA- NNH18IA58P	43.RD		(1,29	
National Aeronautics and Space Administration	Direct		Janet Kozyra IPA-NNH17IA42P	43.RD		221,32	
National Aeronautics and Space Administration	Direct		NNG06GE78G	43.RD		(15	
National Aeronautics and Space Administration	Direct		NNG12CR34C	43.RD		84,64	
National Aeronautics and Space Administration	Direct		NNL13AQ00C	43.RD		6,823,68	
National Aeronautics and Space Administration	Pass-Through Advanced Cooling Technolog	gies, Inc.	40771	43.RD		26,69	
National Aeronautics and Space Administration	Pass-Through Amphionic, LLC		M20NS40	43.RD		10,17	5
National Aeronautics and Space Administration	Pass-Through California Institute of Technology	ology	S386188	43.RD		191,54	)
National Aeronautics and Space Administration	Pass-Through Catholic University of Ameri	ica	361361 Sub 5	43.RD		317,72	5
National Aeronautics and Space Administration	Pass-Through Catholic University of Ameri	ica	361628 Sub2	43.RD		62,824	l I
National Aeronautics and Space Administration	Pass-Through Dartmouth College		R1509	43.RD		1,62	ļ.
National Aeronautics and Space Administration	Pass-Through En'Urga Inc.		Research Agreement	43.RD		(3,66	ł)
National Aeronautics and Space Administration	Pass-Through Jet Propulsion Laboratory		1449038	43.RD		230,77	, 9
National Aeronautics and Space Administration	Pass-Through Jet Propulsion Laboratory		1574620	43.RD		12,60	,
National Aeronautics and Space Administration	Pass-Through Jet Propulsion Laboratory		1593522	43.RD		369,43	)
National Aeronautics and Space Administration	Pass-Through Jet Propulsion Laboratory		1610475	43.RD		47,07	)
National Aeronautics and Space Administration	Pass-Through Jet Propulsion Laboratory		1630798	43.RD		5.	;
National Aeronautics and Space Administration	Pass-Through Jet Propulsion Laboratory		1631492	43.RD		632,21	34
National Aeronautics and Space Administration	Pass-Through Jet Propulsion Laboratory		1633177	43.RD		5,89	2
National Aeronautics and Space Administration	Pass-Through Jet Propulsion Laboratory		1642061	43.RD		27,70	
National Aeronautics and Space Administration	Pass-Through Jet Propulsion Laboratory		1655073	43.RD		84	
National Aeronautics and Space Administration	Pass-Through Jet Propulsion Laboratory		1656153	43.RD		174,70	,
National Aeronautics and Space Administration	Pass-Through Johns Hopkins University		117613	43.RD		13,63	2
National Aeronautics and Space Administration	Pass-Through Johns Hopkins University		141617	43.RD		39,420	
National Aeronautics and Space Administration	Pass-Through Johns Hopkins University		143448	43.RD		3:	;
National Aeronautics and Space Administration	Pass-Through Johns Hopkins University		143448	43.RD		31,86	
National Aeronautics and Space Administration	Pass-Through Michigan Engineering Service		1025	43.RD		2,03	
National Aeronautics and Space Administration	Pass-Through National Institute of Aerospa	ace	T18-601046-UMICH	43.RD		23,93	
National Aeronautics and Space Administration	Pass-Through Smithsonian Institution		SV4-84016	43.RD		227,37	
National Aeronautics and Space Administration	Pass-Through Southwest Research Institute		699056KC	43.RD		171,82	
National Aeronautics and Space Administration	Pass-Through Southwest Research Institute		A99201MO	43.RD		691,36	
National Aeronautics and Space Administration	Pass-Through Southwest Research Institute		E99061MO	43.RD		212,63	
National Aeronautics and Space Administration	Pass-Through Southwest Research Institute		K99067CT	43.RD		12,14	
National Aeronautics and Space Administration	Pass-Through Southwest Research Institute		N99094ZO	43.RD		39,97	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-AR-15047.001-A	43.RD		27,84	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-AR-15051.001-A	43.RD		4,31	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-AR-15806.002-A	43.RD		51,95	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-AR-16129.004-A	43.RD		52	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-AR-16150.001-A	43.RD		28,29	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-GO-14190.001-A	43.RD		2,97	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-GO-14711.004-A	43.RD		4,30	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-GO-14765.001-A	43.RD		17,70	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-GO-14933.002-A	43.RD		2,93	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-GO-15088.001-A	43.RD		36,25	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-GO-15101.004-A	43.RD		(11)	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-GO-15117.033-A	43.RD		56,24	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-GO-15230.002-A	43.RD		29,74	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-GO-15280.009-A	43.RD		12,07	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-GO-15298.007-A	43.RD		86.	
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S	STScl)	HST-GO-15307.004-A	43.RD		20,52	2
National Aeronautics and Space Administration	Pass-Through Space Telescope Institute (S		HST-GO-15352.002-A	43.RD		24,61	

			sistance Listin		_		ssed-Throu
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal I	Expenditures to S	Subrecipien
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-15378.003-A	43.RD			2,902	-
tional Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-15626.004-A	43.RD			29,485	-
tional Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-15655.018-A	43.RD			1,725	-
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-15657.001-A	43.RD			1,682	-
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-15835.009-A	43.RD			22,085	-
tional Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-15842.005-A	43.RD			6,560	-
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-15883.002-A	43.RD			14,203	-
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-15935.021-A	43.RD			2,587	-
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-15937.003-A	43.RD			25,908	-
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-15949.003-A	43.RD			17,939	-
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-15951.004-A	43.RD			681	-
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-15998.002-A	43.RD			7,158	-
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-16047.001-A	43.RD			39,167	
tional Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-GO-16261.001-A	43.RD			21,667	
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-HF2-51401.001-A	43.RD 43.RD			6,900	
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	HST-HF2-51460.001-A				81,714	
ational Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)	JWST-ERS-01364.002-A JWST-ERS-01386.039-A	43.RD			30,407	
itional Aeronautics and Space Administration	Pass-Through Space Telescope Institute (STScl)		43.RD			(2,203)	
tional Aeronautics and Space Administration	Pass-Through The Boeing Company	PO# 1471594	43.RD			(1,160)	
tional Aeronautics and Space Administration	Pass-Through University of Arizona	344641	43.RD			119,383	
tional Aeronautics and Space Administration	Pass-Through University of Colorado	1546525/ PO 1000320451	43.RD			27,117	
tional Aeronautics and Space Administration	Pass-Through University of Colorado	1546525/PO 1000106275	43.RD			197,307	
tional Aeronautics and Space Administration	Pass-Through University of Washington	BPO15842	43.RD		<u> </u>	15,141	1.005
					5	14,594,529 \$	1,995,
		Total National Aeronautics and Space Adminis	istration		\$	30,768,440 \$	4,057,
titute of Marcana and Library Comission	Direct	MA 20 18 0240 18	45 201	Museum for America	¢	121.966 6	
titute of Museum and Library Services	Direct	MA-30-18-0240-18	45.301	Museums for America	\$	121,866 \$	
titute of Museum and Library Services	Direct	MA-40-18-0571-18	45.301	Museums for America	<u></u>	9,084	
C		1 C 27 10 0124 10	45.212		\$ \$	130,950 \$	
titute of Museum and Library Services	Direct	LG-37-19-0134-19	45.312	National Leadership Grants	\$	115,326 \$	
titute of Museum and Library Services	Direct	LG-96-18-0040-18	45.312	National Leadership Grants		135,684	
titute of Museum and Library Services	Pass-Through Arizona State University	17-092	45.312	National Leadership Grants	<u> </u>	16,376	
C ( ) ( ) ( )		RE-07-18-0118-18	45 212		\$ \$	267,386 \$	
stitute of Museum and Library Services	Direct		45.313	Laura Bush 21st Century Librarian Program	\$	80,124 \$	
titute of Museum and Library Services	Direct	RE-17-19-0036-19	45.313	Laura Bush 21st Century Librarian Program		66,619	
stitute of Museum and Library Services	Direct	RE-73-18-0059-18	45.313	Laura Bush 21st Century Librarian Program		1,396	10
stitute of Museum and Library Services	Direct	RE-95-17-0104-17	45.313	Laura Bush 21st Century Librarian Program	¢	62,242	10,
titute of Management I it in a Commission	Beer Through Black Course of the American Library According (BCALA)	Sector and the sector of	46.00		\$	210,381 \$	10
titute of Museum and Library Services	Pass-Through Black Caucus of the American Library Association (BCALA)	Subcontract Total Institute of Museum and Library Service	45.RD		\$	13,070 \$ 621,787 \$	10
		Total institute of Wuseum and Elorary Service			ę	021,787 3	10,
ational Endowment for the Arts	Pass-Through Michigan, State of, Council for Arts and Cultural Affairs	20PS5654ED	45.025	Promotion of the Arts Partnership Agreements	\$	(2,346) \$	
		Total National Endowment for the Arts		· · · · · · · · · · · · · · · · · · ·	\$	(2,346) \$	
tional Endowment for the Humanities	Direct	ZH-252894	45.130	Promotion of the Humanities Challenge Grants	\$	(6,613) \$	
				Promotion of the Humanities Division of Preservation and			
ational Endowment for the Humanities	Direct	PR-276751-21	45.149	Access	\$	43,625 \$	
				Promotion of the Humanities Division of Preservation and			
tional Endowment for the Humanities	Direct	PW-264105-19	45.149	Access		110,984	24
					\$	154,609 \$	24
tional Endowment for the Humanities	Direct	FEL-268214-20	45.160	Promotion of the Humanities Fellowships and Stipends	\$	37,052 \$	
tional Endowment for the Humanities	Direct	RQ-266249-19	45.161	Promotion of the Humanities Research	\$	34,613 \$	
ional Endowment for the Humanities	Direct	RZ-266172-19	45.161	Promotion of the Humanities Research		13,472	
					\$	48,085 \$	
tional Endowment for the Humanities	Direct	DR-272401-20	45.169	Promotion of the Humanities Office of Digital Humanities	\$	645 \$	
tional Endowment for the Humanities	Direct	HZ-259485-18	45.169	Promotion of the Humanities Office of Digital Humanities	*	67,726	
tional Endowment for the Humanities	Pass-Through Gallaudet University	HAA-258756-18	45.169	Promotion of the Humanities Office of Digital Humanities		(8,733)	
					\$	59,638 \$	
tional Endowment for the Humanities	Pass-Through American Musicological Society	RQ-260882-18	45.RD		\$	89,954 \$	
		Total National Endowment for the Humanities			\$	382,725 \$	24.
					<u> </u>		
tional Science Foundation	Direct	1240264	47.041	Engineering	\$	21,172 \$	
tional Science Foundation	Direct	1253172	47.041	Engineering		4,302	
tional Science Foundation	Direct	1350605	47.041	Engineering		19,964	
tional Science Foundation	Direct	1351469	47.041	Engineering		44,471	
tional Science Foundation	Direct	1351482	47.041	Engineering		(184)	
tional Science Foundation	Direct	1428069	47.041	Engineering		30,743	
tional Science Foundation	Direct	1436056	47.041	Engineering		(6,845)	
tional Science Foundation	Direct	1452916	47.041	Engineering		9,206	
	Direct	1452510	47.041	Engineering		45,684	
utional Science Foundation	1211000	1101100					
tional Science Foundation	Direct	1462910	47 041	Engineering		(66)	
tional Science Foundation tional Science Foundation tional Science Foundation	Direct Direct	1462910 1507928	47.041 47.041	Engineering Engineering		(66) 17,338	

	T			Assistance Listi	5		assed-Through
Cluster Title/Federal Grantor/Program National Science Foundation	Type	Pass-Through Grantor	Award Identifie 1534003		Assistance Listing Program Title	Federal Expenditures to	Subrecipients
National Science Foundation	Direct Direct		1534005	47.041 47.041	Engineering Engineering	14,601 1,297	-
National Science Foundation	Direct		1552534	47.041	Engineering	97,573	-
National Science Foundation	Direct		1552545	47.041	Engineering	41,977	-
National Science Foundation	Direct		1552545	47.041	Engineering	25,865	_
National Science Foundation	Direct		1553028	47.041	Engineering	82,640	_
National Science Foundation	Direct		1553831	47.041	Engineering	36,725	-
National Science Foundation	Direct		1553860	47.041	Engineering	119	-
National Science Foundation	Direct		1553873	47.041	Engineering	106,186	-
National Science Foundation	Direct		1554349	47.041	Engineering	19,665	-
National Science Foundation	Direct		1561791	47.041	Engineering	(2,151)	-
National Science Foundation	Direct		1561794	47.041	Engineering	(1,209)	-
National Science Foundation	Direct		1562254	47.041	Engineering	(251)	-
National Science Foundation	Direct		1562388	47.041	Engineering	3,637	-
National Science Foundation	Direct		1565355	47.041	Engineering	(2,190)	-
National Science Foundation	Direct		1604069	47.041	Engineering	46,201	-
National Science Foundation	Direct		1604087	47.041	Engineering	38,204	-
National Science Foundation	Direct		1604903	47.041	Engineering	33,275	-
National Science Foundation	Direct		1605202	47.041	Engineering	82,328	-
National Science Foundation	Direct		1607250	47.041	Engineering	(63)	-
National Science Foundation	Direct		1607796	47.041	Engineering	46,190	-
National Science Foundation	Direct		1608361	47.041	Engineering	1,146	-
National Science Foundation	Direct		1610362	47.041	Engineering	49,325	-
National Science Foundation	Direct		1634545	47.041	Engineering	(7,552)	-
National Science Foundation	Direct		1634680	47.041	Engineering	29,082	-
National Science Foundation	Direct		1634694	47.041	Engineering	79,318	-
National Science Foundation	Direct		1634709	47.041	Engineering	307,951	-
National Science Foundation	Direct		1634824	47.041	Engineering	35,236	-
National Science Foundation	Direct		1636132	47.041	Engineering	29,897	-
National Science Foundation	Direct		1638197	47.041	Engineering	5,970	-
National Science Foundation	Direct		1639244	47.041	Engineering	373,259	139,572
National Science Foundation	Direct		1643280	47.041	Engineering	657,542	100,819
National Science Foundation	Direct		1653080	47.041	Engineering	89,396	-
National Science Foundation	Direct		1653611	47.041	Engineering	34,609	-
National Science Foundation	Direct		1661568	47.041	Engineering	143,966	-
National Science Foundation	Direct		1662553	47.041	Engineering	38,824	-
National Science Foundation	Direct		1662774	47.041	Engineering	56,179	-
National Science Foundation	Direct		1663288	47.041	Engineering	8,604	-
National Science Foundation	Direct		1700848	47.041	Engineering	(706)	-
National Science Foundation	Direct		1701343	47.041	Engineering	59,523	-
National Science Foundation	Direct		1702418	47.041	Engineering	90,036	-
National Science Foundation	Direct		1702471	47.041	Engineering	261,875	-
National Science Foundation	Direct		1703435	47.041	Engineering	13,267	-
National Science Foundation National Science Foundation	Direct		1703543	47.041 47.041	Engineering	46,624	-
National Science Foundation	Direct		1705273		Engineering	109,134	-
National Science Foundation	Direct		1708700	47.041	Engineering	(49)	-
National Science Foundation	Direct Direct		1708706 1709207	47.041 47.041	Engineering	20,803 (14,431)	-
National Science Foundation	Direct		17109207	47.041	Engineering Engineering	10,511	-
National Science Foundation	Direct		1726524	47.041	Engineering	(17,167)	-
National Science Foundation	Direct		1727371	47.041	Engineering	48,585	-
National Science Foundation	Direct		1727618	47.041	Engineering	61,381	
National Science Foundation	Direct		1727918	47.041	Engineering	309,419	
National Science Foundation	Direct		1730549	47.041	Engineering	12,778	
National Science Foundation	Direct		1733665	47.041	Engineering	91,338	_
National Science Foundation	Direct		1740865	47.041	Engineering	72,389	39,816
National Science Foundation	Direct		1741618	47.041	Engineering	448,028	200,629
National Science Foundation	Direct		1745866	47.041	Engineering	60,452	
National Science Foundation	Direct		1747739	47.041	Engineering	149,932	_
National Science Foundation	Direct		1750339	47.041	Engineering	14,364	_
National Science Foundation	Direct		1750744	47.041	Engineering	88,454	
National Science Foundation	Direct		1751093	47.041	Engineering	543	-
National Science Foundation	Direct		1751426	47.041	Engineering	84,842	-
National Science Foundation	Direct		1751590	47.041	Engineering	31,247	_
National Science Foundation	Direct		1757522	47.041	Engineering	43,802	-
National Science Foundation	Direct		1760247	47.041	Engineering	113,310	18,348
National Science Foundation	Direct		1760291	47.041	Engineering	211,277	16,200
National Science Foundation	Direct		1761300	47.041	Engineering	48,380	
National Science Foundation	Direct		1762247	47.041	Engineering	114,533	-
National Science Foundation	Direct		1762369	47.041	Engineering	143,371	-
National Science Foundation	Direct		1762657	47.041	Engineering	26,272	-
	Direct		1802390	47.041	Engineering	12,326	_
National Science Foundation							

				Assistance Listir			Passed-Through
Cluster Title/Federal Grantor/Program	Type	Pass-Through Grantor	Award Identi 1803730		Assistance Listing Program Title	Federal Expenditures	to Subrecipients
National Science Foundation National Science Foundation	Direct Direct		1803730 1803945	47.041 47.041	Engineering	93,801 10,771	-
National Science Foundation	Direct		1803983	47.041	Engineering	61,154	-
National Science Foundation				47.041	Engineering		-
National Science Foundation	Direct		1803991		Engineering	35,811	-
	Direct		1804053	47.041	Engineering	68,653	-
National Science Foundation	Direct		1804287	47.041	Engineering	71,210	-
National Science Foundation	Direct		1804313	47.041	Engineering	71,845	-
National Science Foundation	Direct		1804321	47.041	Engineering	169,144	-
National Science Foundation	Direct		1804458	47.041	Engineering	129,612	-
National Science Foundation	Direct		1804945	47.041	Engineering	74,528	-
National Science Foundation	Direct		1805085	47.041	Engineering	36,946	11,599
National Science Foundation	Direct		1807940	47.041	Engineering	111,912	-
National Science Foundation	Direct		1808051	47.041	Engineering	225,856	-
National Science Foundation	Direct		1809365	47.041	Engineering	121,466	-
National Science Foundation	Direct		1810144	47.041	Engineering	87,339	-
National Science Foundation	Direct		1813963	47.041	Engineering	27,960	-
National Science Foundation	Direct		1824635	47.041	Engineering	415	-
National Science Foundation	Direct		1825133	47.041	Engineering	123,772	-
National Science Foundation	Direct		1825669	47.041	Engineering	33,035	-
National Science Foundation	Direct		1825918	47.041	Engineering	74,504	-
National Science Foundation	Direct		1825931	47.041	Engineering	149,417	-
National Science Foundation	Direct		1825945	47.041	Engineering	92,177	-
National Science Foundation	Direct		1826621	47.041	Engineering	81,041	-
National Science Foundation	Direct		1827123	47.041	Engineering	8,658	-
National Science Foundation	Direct		1830338	47.041	Engineering	95,078	-
National Science Foundation	Direct		1832591	47.041	Engineering	50,929	-
National Science Foundation	Direct		1840492	47.041	Engineering	(114)	-
National Science Foundation	Direct		1840559	47.041	Engineering	(22,256)	-
National Science Foundation	Direct		1844132	47.041	Engineering	36	-
National Science Foundation	Direct		1845093	47.041	Engineering	75,793	-
National Science Foundation	Direct		1845980	47.041	Engineering	23,322	-
National Science Foundation	Direct		1846054	47.041	Engineering	86,072	-
National Science Foundation	Direct		1846969	47.041	Engineering	55,074	-
National Science Foundation	Direct		1854726	47.041	Engineering	174,320	-
National Science Foundation	Direct		1855354	47.041	Engineering	111,156	-
National Science Foundation	Direct		1901582	47.041	Engineering	57,569	-
National Science Foundation	Direct		1901718	47.041	Engineering	222,512	_
National Science Foundation	Direct		1903449	47.041	Engineering	664	_
National Science Foundation	Direct		1903506	47.041	Engineering	89,721	
National Science Foundation	Direct		1904394	47.041		45,663	
National Science Foundation	Direct		1904575	47.041	Engineering Engineering	45,005	-
				47.041		112,954	-
National Science Foundation National Science Foundation	Direct		1904742	47.041	Engineering		-
	Direct		1907517		Engineering	70,405	-
National Science Foundation	Direct		1910283	47.041	Engineering	(558)	-
National Science Foundation	Direct		1912482	47.041	Engineering	27,615	-
National Science Foundation	Direct		1914581	47.041	Engineering	33,052	-
National Science Foundation	Direct		1914583	47.041	Engineering	94,077	-
National Science Foundation	Direct		1915550	47.041	Engineering	86,425	-
National Science Foundation	Direct		1916654	47.041	Engineering	151,584	-
National Science Foundation	Direct		1917904	47.041	Engineering	1,458	-
National Science Foundation	Direct		1918754	47.041	Engineering	153,531	-
National Science Foundation	Direct		1919201	47.041	Engineering	145,822	-
National Science Foundation	Direct		1919416	47.041	Engineering	124,938	-
National Science Foundation	Direct		1919444	47.041	Engineering	135,847	-
National Science Foundation	Direct		1919560	47.041	Engineering	12,706	-
National Science Foundation	Direct		1927803	47.041	Engineering	118,366	-
National Science Foundation	Direct		1931738	47.041	Engineering	121,013	-
National Science Foundation	Direct		1931806	47.041	Engineering	(1,592)	-
National Science Foundation	Direct		1931905	47.041	Engineering	68,668	-
National Science Foundation	Direct		1931950	47.041	Engineering	233,731	-
National Science Foundation	Direct		1932659	47.041	Engineering	16,826	-
National Science Foundation	Direct		1933061	47.041	Engineering	167,837	-
National Science Foundation	Direct		1933436	47.041	Engineering	100,975	-
National Science Foundation	Direct		1935216	47.041	Engineering	375,644	80,266
National Science Foundation	Direct		1937732	47.041	Engineering	74,405	
National Science Foundation	Direct		1939428	47.041	Engineering	8,393	_
National Science Foundation	Direct		1940112	47.041	Engineering	7,260	_
National Science Foundation	Direct		1940676	47.041	Engineering	1,990	-
National Science Foundation	Direct		1940766	47.041	Engineering	37,416	
Vational Science Foundation	Direct		1940766	47.041		217,567	-
National Science Foundation				47.041	Engineering		-
	Direct		1942806		Engineering	106,470	-
National Science Foundation	Direct		1942901	47.041	Engineering	67,904	-

				Assistance Listi	ng		Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
National Science Foundation	Direct		1942907	47.041	Engineering	54,820	-
National Science Foundation	Direct		1943723	47.041	Engineering	76,340	-
National Science Foundation National Science Foundation	Direct Direct		1943726 1943805	47.041 47.041	Engineering	54,035 57,104	-
National Science Foundation	Direct		1944448	47.041	Engineering Engineering	114,120	-
National Science Foundation	Direct		1947070	47.041	Engineering	26,153	_
National Science Foundation	Direct		1947114	47.041	Engineering	79,434	-
National Science Foundation	Direct		1949346	47.041	Engineering	61,488	-
National Science Foundation	Direct		1949869	47.041	Engineering	135,820	-
National Science Foundation	Direct		1952038	47.041	Engineering	163,539	55,600
National Science Foundation	Direct		1952279	47.041	Engineering	366,252	-
National Science Foundation	Direct		1953190	47.041	Engineering	10,390	
National Science Foundation	Direct		1953908	47.041	Engineering	130,187	67,682
National Science Foundation	Direct		2001036	47.041	Engineering	69,789	-
National Science Foundation National Science Foundation	Direct Direct		2002887 2003434	47.041 47.041	Engineering Engineering	137,319 80,321	-
National Science Foundation	Direct		2003434 2015187	47.041	Engineering	12,082	-
National Science Foundation	Direct		2015191	47.041	Engineering	121,103	-
National Science Foundation	Direct		2016129	47.041	Engineering	8,025	-
National Science Foundation	Direct		2016356	47.041	Engineering	99,985	-
National Science Foundation	Direct		2016421	47.041	Engineering	38,857	-
National Science Foundation	Direct		2018572	47.041	Engineering	101,472	-
National Science Foundation	Direct		2018963	47.041	Engineering	152,936	-
National Science Foundation	Direct		2020527	47.041	Engineering	108,651	-
National Science Foundation	Direct		2020964	47.041	Engineering	30,412	-
National Science Foundation	Direct		2021419	47.041	Engineering	17,577	-
National Science Foundation	Direct		2023057	47.041	Engineering	54,510	-
National Science Foundation National Science Foundation	Direct		2024237	47.041	Engineering	67,578	-
National Science Foundation	Direct Direct		2026484 2029139	47.041 47.041	Engineering Engineering	44,503 239,789	-
National Science Foundation	Direct		2029251	47.041	Engineering	244,315	
National Science Foundation	Direct		2029484	47.041	Engineering	98,093	-
National Science Foundation	Direct		2030551	47.041	Engineering	163,740	-
National Science Foundation	Direct		2030680	47.041	Engineering	267	-
National Science Foundation	Direct		2030811	47.041	Engineering	29,016	-
National Science Foundation	Direct		2031333	47.041	Engineering	8,920	-
National Science Foundation	Direct		2032604	47.041	Engineering	71,945	-
National Science Foundation	Direct		2032658	47.041	Engineering	17,195	-
National Science Foundation	Direct		2033654	47.041	Engineering	188,681	-
National Science Foundation	Direct		2033969	47.041	Engineering	86,186	-
National Science Foundation National Science Foundation	Direct Direct		2034626 2034938	47.041 47.041	Engineering Engineering	111,776 22,820	-
National Science Foundation	Direct		2034938 2038416	47.041	Engineering	149,523	-
National Science Foundation	Direct		2038441	47.041	Engineering	80,068	_
National Science Foundation	Direct		2040013	47.041	Engineering	5,585	-
National Science Foundation	Direct		2042608	47.041	Engineering	3,392	-
National Science Foundation	Direct		2043803	47.041	Engineering	23,109	-
National Science Foundation	Direct		2044245	47.041	Engineering	31,315	-
National Science Foundation	Direct		2053046	47.041	Engineering	378	-
National Science Foundation	Direct		2054148	47.041	Engineering	10,773	-
National Science Foundation	Direct		2101320	47.041	Engineering	16,865	-
National Science Foundation	Direct		2112458	47.041	Engineering	552	-
National Science Foundation National Science Foundation	Direct		2124527	47.041	Engineering	15,658	-
	Pass-Through Arizona State University		ASUB00000473 4500002480/4500002400	47.041	Engineering	39,171	-
National Science Foundation National Science Foundation	Pass-Through Boston University Pass-Through Boston University		4500002489/4500002490 4500002851	47.041 47.041	Engineering Engineering	(549) (4,217)	-
National Science Foundation	Pass-Through Boston University		4500002858	47.041	Engineering	(7,658)	-
National Science Foundation	Pass-Through George Washington Univ	versity	20-806	47.041	Engineering	38,765	-
National Science Foundation	Pass-Through Georgia Institute of Tech		AWD-102885-G1	47.041	Engineering	3,364	-
National Science Foundation	Pass-Through Georgia Technology Res		AWD-000078-G1	47.041	Engineering	104,587	-
National Science Foundation		Science and Technology (aka Iowa State University)	4207275B	47.041	Engineering	21,464	-
National Science Foundation	Pass-Through Johns Hopkins Universit		2004637041	47.041	Engineering	22,884	-
National Science Foundation	Pass-Through Johns Hopkins Universit		2004637057	47.041	Engineering	34,090	-
National Science Foundation	Pass-Through Johns Hopkins Universit	У	2005020771	47.041	Engineering	2,782	-
National Science Foundation	Pass-Through Newhaptics Corp. Pass-Through North Carolina State Un	in results r	1913671	47.041	Engineering	11,007	-
National Science Foundation National Science Foundation	Pass-Through North Carolina State Un Pass-Through NX Fuels, Inc. (dba Car		2012-1067-04 Research Agreement	47.041 47.041	Engineering	72,253 23,187	-
National Science Foundation National Science Foundation	Pass-Through NX Fuels, Inc. (dba Car Pass-Through Ohio State University, T		Research Agreement 60061807	47.041	Engineering Engineering	23,187 245,768	-
National Science Foundation	Pass-Through Oklahoma State University, 1		1-565747-MICH	47.041	Engineering	93,944	-
National Science Foundation	Pass-Through Otzi Bio LLC		Research Agreement	47.041	Engineering	7,328	_
National Science Foundation	Pass-Through Prehab Technologies, LI	LC (dba Prenovo)	Roundtable Research Agreement	47.041	Engineering	69,552	-
National Science Foundation	Pass-Through Princeton University		SUB0000350	47.041	Engineering	3,920	-

	Terres D The LC (	4 1 1 1 A	Assistance List		Passed-Thro Federal Expenditures to Subrecipio	
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title		Subrecipien
Jational Science Foundation	Pass-Through S2A Technologies LLC (dba Ulendo) Pass-Through Taza Ava LLC	Roundtable Research Agreement	47.041	Engineering	29,656	-
ational Science Foundation		Roundtable Research Agrm	47.041	Engineering	(44)	-
ational Science Foundation	Pass-Through Texas A & M University	C8321	47.041	Engineering	(367)	-
ational Science Foundation	Pass-Through The University of Texas at Arlington (UTA)	2019GC0811	47.041	Engineering	43,414	-
lational Science Foundation	Pass-Through University of California - Santa Barbara	KK1850	47.041	Engineering	226,995	-
ational Science Foundation	Pass-Through University of Iowa	S01740-01	47.041	Engineering	9,709	-
ational Science Foundation	Pass-Through University of Minnesota	A007037601	47.041	Engineering	93,959	-
ational Science Foundation	Pass-Through University of San Diego	A19-0014-S002	47.041	Engineering	13,532	-
ational Science Foundation	Pass-Through University of Southern California	91665631	47.041	Engineering	(26,786)	-
lational Science Foundation	Pass-Through Virginia Polytechnic Institute and State University	480039-19337	47.041	Engineering	49,499	-
lational Science Foundation	Pass-Through Washington University in St. Louis	WU-19-152	47.041	Engineering	119,528	_
ational Science Foundation	Pass-Through Washington University in St. Louis	WU-21-319	47.041		65,046	
ational Science Foundation	Pass-Through washington University in St. Louis	W 0-21-319	47.041	Engineering	\$ 16,999,606 \$	730,5
ational Science Foundation	Direct	1352157	47.049	Mathematical and Physical Sciences		
				2		-
tional Science Foundation	Direct	1410282	47.049	Mathematical and Physical Sciences	51	
tional Science Foundation	Direct	1452392	47.049	Mathematical and Physical Sciences	61,323	
tional Science Foundation	Direct	1452636	47.049	Mathematical and Physical Sciences	46,304	
tional Science Foundation	Direct	1453893	47.049	Mathematical and Physical Sciences	96,039	
tional Science Foundation	Direct	1453894	47.049	Mathematical and Physical Sciences	56,046	
tional Science Foundation	Direct	1454010	47.049	Mathematical and Physical Sciences	57,486	
tional Science Foundation	Direct	1464693	47.049	Mathematical and Physical Sciences	36,325	
tional Science Foundation	Direct	1506021	47.049	Mathematical and Physical Sciences	(96)	
tional Science Foundation	Direct	1506055	47.049	Mathematical and Physical Sciences	(1,551)	
tional Science Foundation	Direct	1506273	47.049	Mathematical and Physical Sciences	57,139	
tional Science Foundation	Direct	1506540	47.049	Mathematical and Physical Sciences	27,197	
tional Science Foundation	Direct	1513379	47.049	Mathematical and Physical Sciences	11,169	
tional Science Foundation	Direct	1514838	47.049	Mathematical and Physical Sciences	41,764	
tional Science Foundation	Direct	1515001	47.049	Mathematical and Physical Sciences	170	
tional Science Foundation	Direct	1551994	47.049	Mathematical and Physical Sciences	78,225	
tional Science Foundation	Direct	1559988	47.049	Mathematical and Physical Sciences	(7,627)	
tional Science Foundation	Direct	1561008	47.049	Mathematical and Physical Sciences	126,036	
ional Science Foundation	Direct	1564362	47.049	Mathematical and Physical Sciences	23,492	
tional Science Foundation	Direct	1564457	47.049	Mathematical and Physical Sciences	(22,105)	
tional Science Foundation	Direct	1565782	47.049	Mathematical and Physical Sciences	(33)	
tional Science Foundation	Direct	1565837	47.049	Mathematical and Physical Sciences	12,936	
tional Science Foundation	Direct	1600011	47.049	Mathematical and Physical Sciences	(567)	
ational Science Foundation	Direct	1600138	47.049	Mathematical and Physical Sciences	24,934	
ational Science Foundation	Direct	1600494	47.049	Mathematical and Physical Sciences	(795)	
tional Science Foundation	Direct	1601844	47.049	Mathematical and Physical Sciences	8,662	
tional Science Foundation	Direct	1606348	47.049	Mathematical and Physical Sciences		
					(215)	
tional Science Foundation	Direct	1607260	47.049	Mathematical and Physical Sciences	(4,352)	
tional Science Foundation	Direct	1607840	47.049	Mathematical and Physical Sciences	155	
tional Science Foundation	Direct	1607854	47.049	Mathematical and Physical Sciences	35	
tional Science Foundation	Direct	1607949	47.049	Mathematical and Physical Sciences	76,421	
tional Science Foundation	Direct	1608553	47.049	Mathematical and Physical Sciences	6,646	
tional Science Foundation	Direct	1609051	47.049	Mathematical and Physical Sciences	(1,364)	
tional Science Foundation	Direct	1609840	47.049	Mathematical and Physical Sciences	(5,191)	
tional Science Foundation	Direct	1610344	47.049	Mathematical and Physical Sciences	(542)	
tional Science Foundation	Direct	1610742	47.049	Mathematical and Physical Sciences	135,507	
tional Science Foundation	Direct	1613170	47.049	Mathematical and Physical Sciences	39,674	
tional Science Foundation	Direct	1613819	47.049	Mathematical and Physical Sciences	21,536	
tional Science Foundation	Direct	1646108	47.049	Mathematical and Physical Sciences	613,321	
ional Science Foundation	Direct	1653433	47.049	Mathematical and Physical Sciences	81,394	
ional Science Foundation	Direct	1654149	47.049	Mathematical and Physical Sciences	130,611	
ional Science Foundation	Direct	1654223	47.049	Mathematical and Physical Sciences	91,370	
tional Science Foundation	Direct	1659203	47.049	Mathematical and Physical Sciences	7,200	
ional Science Foundation						
	Direct	1659393	47.049	Mathematical and Physical Sciences	87,084	
ional Science Foundation	Direct	1664531	47.049	Mathematical and Physical Sciences	42,549	
ional Science Foundation	Direct	1664692	47.049	Mathematical and Physical Sciences	(778)	
ional Science Foundation	Direct	1664722	47.049	Mathematical and Physical Sciences	40,091	
ional Science Foundation	Direct	1664961	47.049	Mathematical and Physical Sciences	104,375	
onal Science Foundation	Direct	1664964	47.049	Mathematical and Physical Sciences	107,478	
ional Science Foundation	Direct	1701437	47.049	Mathematical and Physical Sciences	2,516	
ional Science Foundation	Direct	1701576	47.049	Mathematical and Physical Sciences	40,439	
tional Science Foundation	Direct	1701622	47.049	Mathematical and Physical Sciences	(2,243)	
tional Science Foundation	Direct	1705418	47.049	Mathematical and Physical Sciences	152,514	
tional Science Foundation	Direct	1707260	47.049	Mathematical and Physical Sciences	92,306	
tional Science Foundation	Direct	1707377	47.049	Mathematical and Physical Sciences	106,243	14
ional Science Foundation	Direct	1707620	47.049	Mathematical and Physical Sciences	45,213	
ional Science Foundation	Direct	1707640	47.049	Mathematical and Physical Sciences	2,267	
ional Science Foundation	Direct	1708043	47.049	Mathematical and Physical Sciences	32,045	
ional Science Foundation	Direct	1708043		Mathematical and Physical Sciences	89,249	
			47.049	manemancai and Physical Sciences		

Chuston Title/Foder-1 Counter/Pro-	Tuno	Door Thurst Country	4	Assistance Listi			assed-Through
Cluster Title/Federal Grantor/Program National Science Foundation	Type Direct	Pass-Through Grantor	Award Identifier 1709163	<u>Number</u> 47.049	Assistance Listing Program Title Mathematical and Physical Sciences	Federal Expenditures to (5,812)	Subrecipients
National Science Foundation	Direct		1710848	47.049	Mathematical and Physical Sciences	1,862	-
National Science Foundation	Direct		1712717	47.049	Mathematical and Physical Sciences	21,415	_
National Science Foundation	Direct		1712933	47.049	Mathematical and Physical Sciences	57,801	_
National Science Foundation	Direct		1712953	47.049	Mathematical and Physical Sciences	(21)	_
National Science Foundation	Direct		1714094	47.049	Mathematical and Physical Sciences	90,607	-
National Science Foundation	Direct		1715140	47.049	Mathematical and Physical Sciences	61,054	-
National Science Foundation	Direct		1719834	47.049	Mathematical and Physical Sciences	2,427	-
National Science Foundation	Direct		1725482	47.049	Mathematical and Physical Sciences	(58,954)	-
National Science Foundation	Direct		1726457	47.049	Mathematical and Physical Sciences	177,298	-
National Science Foundation	Direct		1748529	47.049	Mathematical and Physical Sciences	6,793	-
National Science Foundation	Direct		1749774	47.049	Mathematical and Physical Sciences	92,084	-
National Science Foundation	Direct		1751462	47.049	Mathematical and Physical Sciences	102,903	-
National Science Foundation	Direct		1751791	47.049	Mathematical and Physical Sciences	154,568	-
National Science Foundation	Direct		1757523	47.049	Mathematical and Physical Sciences	34,452	-
National Science Foundation	Direct		1757574	47.049	Mathematical and Physical Sciences	28,634	-
National Science Foundation	Direct		1761603	47.049	Mathematical and Physical Sciences	218,382	-
National Science Foundation	Direct		1764112	47.049	Mathematical and Physical Sciences	58,321	-
National Science Foundation	Direct		1800197	47.049	Mathematical and Physical Sciences	34,078	-
National Science Foundation	Direct		1800325	47.049	Mathematical and Physical Sciences	82,698	-
National Science Foundation	Direct		1801687	47.049	Mathematical and Physical Sciences	62,364	-
National Science Foundation	Direct		1801689	47.049	Mathematical and Physical Sciences	70,319	-
National Science Foundation	Direct		1801697	47.049	Mathematical and Physical Sciences	80,050	-
National Science Foundation	Direct		1802234	47.049	Mathematical and Physical Sciences	11,084	-
National Science Foundation	Direct		1804463	47.049	Mathematical and Physical Sciences	263,664	-
National Science Foundation	Direct		1806577	47.049	Mathematical and Physical Sciences	276,005	-
National Science Foundation	Direct		1806809	47.049	Mathematical and Physical Sciences	98,067	-
National Science Foundation	Direct		1807079	47.049	Mathematical and Physical Sciences	72,280	-
National Science Foundation	Direct		1807316	47.049	Mathematical and Physical Sciences	91,322	-
National Science Foundation	Direct		1807338	47.049	Mathematical and Physical Sciences	401,265	-
National Science Foundation	Direct		1807676	47.049	Mathematical and Physical Sciences	130,786	-
National Science Foundation	Direct		1807687	47.049	Mathematical and Physical Sciences	92,698	-
National Science Foundation	Direct		1807755	47.049	Mathematical and Physical Sciences	193,992	-
National Science Foundation	Direct		1807984	47.049	Mathematical and Physical Sciences	38,635	-
National Science Foundation	Direct		1808342	47.049	Mathematical and Physical Sciences	178,707	-
National Science Foundation	Direct		1808541	47.049	Mathematical and Physical Sciences	199,855	-
National Science Foundation	Direct		1810119	47.049	Mathematical and Physical Sciences	131,830	-
National Science Foundation National Science Foundation	Direct		1810280	47.049	Mathematical and Physical Sciences	233,202	-
National Science Foundation	Direct		1811083	47.049	Mathematical and Physical Sciences	32,680	-
National Science Foundation	Direct Direct		1811734 1811819	47.049 47.049	Mathematical and Physical Sciences Mathematical and Physical Sciences	89,000 47,003	-
National Science Foundation	Direct		1811889	47.049	Mathematical and Physical Sciences	62,278	-
National Science Foundation	Direct		1812314	47.049	Mathematical and Physical Sciences	235,946	
National Science Foundation	Direct		1812625	47.049	Mathematical and Physical Sciences	81,984	-
National Science Foundation	Direct		1812739	47.049	Mathematical and Physical Sciences	69,515	_
National Science Foundation	Direct		1812961	47.049	Mathematical and Physical Sciences	83,487	_
National Science Foundation	Direct		1813003	47.049	Mathematical and Physical Sciences	94,324	_
National Science Foundation	Direct		1815403	47.049	Mathematical and Physical Sciences	131,570	_
National Science Foundation	Direct		1819094	47.049	Mathematical and Physical Sciences	25,184	_
National Science Foundation	Direct		1821243	47.049	Mathematical and Physical Sciences	52,851	-
National Science Foundation	Direct		1830247	47.049	Mathematical and Physical Sciences	23,586	-
National Science Foundation	Direct		1830293	47.049	Mathematical and Physical Sciences	8,040	8,040
National Science Foundation	Direct		1830728	47.049	Mathematical and Physical Sciences	132,207	-
National Science Foundation	Direct		1836374	47.049	Mathematical and Physical Sciences	83,446	-
National Science Foundation	Direct		1836435	47.049	Mathematical and Physical Sciences	75,346	-
National Science Foundation	Direct		1836529	47.049	Mathematical and Physical Sciences	63,717	-
National Science Foundation	Direct		1836530	47.049	Mathematical and Physical Sciences	32,617	-
National Science Foundation	Direct		1840234	47.049	Mathematical and Physical Sciences	297,128	-
National Science Foundation	Direct		1844763	47.049	Mathematical and Physical Sciences	54,809	-
National Science Foundation	Direct		1847837	47.049	Mathematical and Physical Sciences	72,478	-
National Science Foundation	Direct		1847847	47.049	Mathematical and Physical Sciences	82,303	-
National Science Foundation	Direct		1847855	47.049	Mathematical and Physical Sciences	146,528	-
National Science Foundation	Direct		1852239	47.049	Mathematical and Physical Sciences	70,913	-
National Science Foundation	Direct		1853032	47.049	Mathematical and Physical Sciences	38,282	-
National Science Foundation	Direct		1853506	47.049	Mathematical and Physical Sciences	91,934	-
National Science Foundation	Direct		1854225	47.049	Mathematical and Physical Sciences	18,939	-
National Science Foundation	Direct		1855135	47.049	Mathematical and Physical Sciences	82,893	-
National Science Foundation	Direct		1855428	47.049	Mathematical and Physical Sciences	58,201	-
National Science Foundation	Direct		1856155	47.049	Mathematical and Physical Sciences	96,729	-
National Science Foundation	Direct		1900025	47.049	Mathematical and Physical Sciences	71,328	-
National Science Foundation	Direct		1900257	47.049	Mathematical and Physical Sciences	104,488	-

Cluster Title/Federal Grantor/Program	Terra	Base Thursday Constant	Amound Table 117	Assistance Listi		Federal Former Pr	Passed-Through
National Science Foundation	Type Direct	Pass-Through Grantor	Award Identifier 1900380	Number 47.049	Assistance Listing Program Title Mathematical and Physical Sciences	Federal Expenditures 141,449	
National Science Foundation	Direct		1900380	47.049	Mathematical and Physical Sciences	(3,778)	28,471
National Science Foundation	Direct		1902116	47.049	Mathematical and Physical Sciences	126,242	-
National Science Foundation	Direct		1902878	47.049	Mathematical and Physical Sciences	53,441	-
National Science Foundation	Direct		1902878	47.049	Mathematical and Physical Sciences	131,966	-
National Science Foundation	Direct		1904140	47.049	Mathematical and Physical Sciences	121,976	-
National Science Foundation	Direct		1904541	47.049	Mathematical and Physical Sciences	118,539	-
National Science Foundation			1904591	47.049	Mathematical and Physical Sciences	(309)	-
National Science Foundation	Direct Direct		1904759	47.049	Mathematical and Physical Sciences	213,786	-
National Science Foundation			1904862	47.049	Mathematical and Physical Sciences	66,128	-
National Science Foundation	Direct		1904862 1905267	47.049	Mathematical and Physical Sciences	189,933	-
National Science Foundation	Direct		1905207	47.049	Mathematical and Physical Sciences	196,679	-
	Direct						-
National Science Foundation	Direct		1905421	47.049	Mathematical and Physical Sciences	124,202	-
National Science Foundation National Science Foundation	Direct		1905600	47.049	Mathematical and Physical Sciences	38,180	-
National Science Foundation	Direct		1906123	47.049	Mathematical and Physical Sciences	48,137	-
	Direct		1906441	47.049	Mathematical and Physical Sciences	95,426	-
National Science Foundation	Direct		1907653	47.049	Mathematical and Physical Sciences	73,094	-
National Science Foundation	Direct		1909063	47.049	Mathematical and Physical Sciences	47,713	-
National Science Foundation	Direct		1909165	47.049	Mathematical and Physical Sciences	21,012	-
National Science Foundation	Direct		1912151	47.049	Mathematical and Physical Sciences	75,799	-
National Science Foundation	Direct		1912494	47.049	Mathematical and Physical Sciences	44,654	-
National Science Foundation	Direct		1914496	47.049	Mathematical and Physical Sciences	77,978	-
National Science Foundation	Direct		1914608	47.049	Mathematical and Physical Sciences	146,612	-
National Science Foundation	Direct		1916222	47.049	Mathematical and Physical Sciences	38,610	-
National Science Foundation	Direct		1916226	47.049	Mathematical and Physical Sciences	116,562	-
National Science Foundation	Direct		1916271	47.049	Mathematical and Physical Sciences	22,197	-
National Science Foundation	Direct		1922275	47.049	Mathematical and Physical Sciences	96,121	-
National Science Foundation	Direct		1922567	47.049	Mathematical and Physical Sciences	183,370	-
National Science Foundation	Direct		1926199	47.049	Mathematical and Physical Sciences	253,810	-
National Science Foundation	Direct		1935950	47.049	Mathematical and Physical Sciences	3,401,719	-
National Science Foundation	Direct		1936640	47.049	Mathematical and Physical Sciences	51,061	-
National Science Foundation	Direct		1937689	47.049	Mathematical and Physical Sciences	53,685	-
National Science Foundation	Direct		1939310	47.049	Mathematical and Physical Sciences	24,596	-
National Science Foundation	Direct		1939534	47.049	Mathematical and Physical Sciences	79,585	-
National Science Foundation	Direct		1944879	47.049	Mathematical and Physical Sciences	109,254	-
National Science Foundation	Direct		1945174	47.049	Mathematical and Physical Sciences	116,688	-
National Science Foundation	Direct		1949730	47.049	Mathematical and Physical Sciences	26,792	_
National Science Foundation	Direct		1950102	47.049	Mathematical and Physical Sciences	47,249	_
National Science Foundation	Direct		1951980	47.049	Mathematical and Physical Sciences	58,694	_
National Science Foundation	Direct		1952399	47.049	Mathematical and Physical Sciences	36,666	_
National Science Foundation	Direct		1953852	47.049	Mathematical and Physical Sciences	37,658	-
National Science Foundation	Direct		1953832	47.049	Mathematical and Physical Sciences	132,432	
National Science Foundation	Direct		1954939	47.049	Mathematical and Physical Sciences	160,022	-
National Science Foundation				47.049			-
	Direct		1954985		Mathematical and Physical Sciences	118,831	-
National Science Foundation	Direct		1955000	47.049	Mathematical and Physical Sciences	143,813	-
National Science Foundation	Direct		1955026	47.049	Mathematical and Physical Sciences	209,071	-
National Science Foundation	Direct		1955069	47.049	Mathematical and Physical Sciences	61,978	-
National Science Foundation	Direct		1955284	47.049	Mathematical and Physical Sciences	74,315	-
National Science Foundation	Direct		2001132	47.049	Mathematical and Physical Sciences	89,621	-
National Science Foundation	Direct		2001293	47.049	Mathematical and Physical Sciences	75,158	-
National Science Foundation	Direct		2001465	47.049	Mathematical and Physical Sciences	40,626	-
National Science Foundation	Direct		2002885	47.049	Mathematical and Physical Sciences	189,160	-
National Science Foundation	Direct		2003712	47.049	Mathematical and Physical Sciences	121,345	-
National Science Foundation	Direct		2003719	47.049	Mathematical and Physical Sciences	71,069	-
National Science Foundation	Direct		2004035	47.049	Mathematical and Physical Sciences	129,638	-
National Science Foundation	Direct		2004043	47.049	Mathematical and Physical Sciences	249,938	-
National Science Foundation	Direct		2004076	47.049	Mathematical and Physical Sciences	47,036	-
National Science Foundation	Direct		2004286	47.049	Mathematical and Physical Sciences	170,578	-
National Science Foundation	Direct		2004287	47.049	Mathematical and Physical Sciences	70,272	240
National Science Foundation	Direct		2004288	47.049	Mathematical and Physical Sciences	32,658	-
National Science Foundation	Direct		2004305	47.049	Mathematical and Physical Sciences	80,813	-
National Science Foundation	Direct		2005899	47.049	Mathematical and Physical Sciences	5,557	-
National Science Foundation	Direct		2006305	47.049	Mathematical and Physical Sciences	49,783	-
National Science Foundation	Direct		2007065	47.049	Mathematical and Physical Sciences	29,949	-
National Science Foundation	Direct		2009096	47.049	Mathematical and Physical Sciences	51,611	-
National Science Foundation	Direct		2009121	47.049	Mathematical and Physical Sciences	20,856	_
National Science Foundation	Direct		2009121	47.049	Mathematical and Physical Sciences	38,095	-
National Science Foundation	Direct		2009122 2009219	47.049	Mathematical and Physical Sciences	44,398	-
National Science Foundation	Direct		2009219 2009227	47.049	Mathematical and Physical Sciences	44,598 71,636	-
National Science Foundation National Science Foundation			2009227 2009489	47.049	Mathematical and Physical Sciences Mathematical and Physical Sciences	42,760	-
	Direct						-
National Science Foundation	Direct		2012015	47.049	Mathematical and Physical Sciences	64,087	-
National Science Foundation	Direct		2012238	47.049	Mathematical and Physical Sciences	31,197	-

Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Assistance Listin Number	ng Assistance Listing Program Title	Fadarel Fr	Pa: benditures to \$	ssed-Throug
ational Science Foundation	Direct	r ass- i in ough Grantor	2012424	47.049	Mathematical and Physical Sciences	rederai Ex	113,212	subrecipient
ational Science Foundation	Direct		2012926	47.049	Mathematical and Physical Sciences		197,758	_
tional Science Foundation	Direct		2015361	47.049	Mathematical and Physical Sciences		42,232	-
ational Science Foundation	Direct		2015366	47.049	Mathematical and Physical Sciences		60,052	-
tional Science Foundation	Direct		2027555	47.049	Mathematical and Physical Sciences		168,740	-
tional Science Foundation	Direct		2038030	47.049	Mathematical and Physical Sciences		30,502	-
ational Science Foundation	Direct		2052653	47.049	Mathematical and Physical Sciences		22,525	-
ational Science Foundation	Direct		2104309	47.049	Mathematical and Physical Sciences		12,959	-
tional Science Foundation	Direct		2112747	47.049	Mathematical and Physical Sciences		24,394	-
ational Science Foundation	Pass-Through Columbia Uni	iversity	17(GG016228)	47.049	Mathematical and Physical Sciences		806,940	-
ational Science Foundation	Pass-Through Columbia Uni	iversity	18(GG016228)	47.049	Mathematical and Physical Sciences		106,983	-
ational Science Foundation	Pass-Through Columbia Uni		19(GG016228)	47.049	Mathematical and Physical Sciences		130,358	-
ational Science Foundation	Pass-Through Emory Univer		A022507	47.049	Mathematical and Physical Sciences		(66)	-
tional Science Foundation	Pass-Through Emory Univer		A213357	47.049	Mathematical and Physical Sciences		80,224	-
tional Science Foundation	Pass-Through Emory Univer	2	A374424	47.049	Mathematical and Physical Sciences		203,200	-
tional Science Foundation	Pass-Through Massachusetts		S5135 - PO 491280	47.049	Mathematical and Physical Sciences		77,262	-
tional Science Foundation	Pass-Through National Radi		SOSPA6-001	47.049	Mathematical and Physical Sciences		14,465	-
tional Science Foundation	Pass-Through Pennsylvania	2	S001120-NSF	47.049	Mathematical and Physical Sciences		56,580	-
tional Science Foundation	Pass-Through Princeton Uni		SUB0000031	47.049	Mathematical and Physical Sciences		(4,000)	-
tional Science Foundation	Pass-Through Stony Brook U		76749/1136652/2/R&D	47.049	Mathematical and Physical Sciences		169,153	-
tional Science Foundation	Pass-Through Stony Brook U		76749/1136652/2/Tier2	47.049	Mathematical and Physical Sciences		1,255,553	477,06
tional Science Foundation	Pass-Through Texas A & M		M2003097	47.049	Mathematical and Physical Sciences		31,679	-
tional Science Foundation	Pass-Through University of		097001-17603	47.049	Mathematical and Physical Sciences		30,883	-
tional Science Foundation	Pass-Through University of		17-009589B	47.049	Mathematical and Physical Sciences		1,419	-
tional Science Foundation	Pass-Through University of		18-010023 B	47.049	Mathematical and Physical Sciences		(4,841)	-
tional Science Foundation	Pass-Through University of		574799	47.049	Mathematical and Physical Sciences		(1,000)	-
tional Science Foundation	Pass-Through University of	Utah	10055084-S2	47.049	Mathematical and Physical Sciences		89,132	-
	D: /		1222542	17.050			2,852,671 \$	528,5
tional Science Foundation	Direct		1322543	47.050	Geosciences	\$	(1,148) \$	-
ional Science Foundation	Direct		1338200	47.050	Geosciences		28,979	-
ional Science Foundation	Direct		1351745	47.050	Geosciences		134,308	-
onal Science Foundation	Direct		1400998	47.050	Geosciences		(176)	
ional Science Foundation	Direct		1408789	47.050	Geosciences		80,265	81,2
tional Science Foundation	Direct		1433710	47.050	Geosciences		15,014	-
tional Science Foundation	Direct		1450512	47.050	Geosciences		6	-
tional Science Foundation	Direct		1524304	47.050	Geosciences		21,790	-
tional Science Foundation	Direct		1524394	47.050	Geosciences		15,736	-
ional Science Foundation	Direct		1536242	47.050	Geosciences		(7,524)	-
tional Science Foundation	Direct		1540589	47.050	Geosciences		11,079	-
tional Science Foundation	Direct		1540954	47.050	Geosciences		5,605	-
tional Science Foundation	Direct		1550101	47.050	Geosciences		18,645	
tional Science Foundation	Direct		1600012	47.050	Geosciences		312,972	263,7
tional Science Foundation	Direct		1602956	47.050	Geosciences		75,703	-
tional Science Foundation	Direct		1621686	47.050	Geosciences		30,065	-
tional Science Foundation	Direct		1629805	47.050	Geosciences		11,971	-
tional Science Foundation	Direct		1637066	47.050	Geosciences		9,395	-
tional Science Foundation	Direct		1639640	47.050	Geosciences		2,864	
tional Science Foundation	Direct		1640797	47.050	Geosciences		27,169	
tional Science Foundation	Direct		1644829	47.050	Geosciences		100,726	
tional Science Foundation	Direct		1650682	47.050	Geosciences		60,620	-
tional Science Foundation	Direct		1654044	47.050	Geosciences		12,033	
ional Science Foundation	Direct		1659248	47.050	Geosciences		26,305	
ional Science Foundation	Direct		1659338	47.050	Geosciences		48,708	
ional Science Foundation	Direct		1663769	47.050	Geosciences		75,979	
ional Science Foundation	Direct		1663770	47.050	Geosciences		128,985	
ional Science Foundation	Direct		1663800	47.050	Geosciences		439,762	
ional Science Foundation	Direct		1703019	47.050	Geosciences		19,036	
ional Science Foundation	Direct		1712695	47.050	Geosciences		22,130	
onal Science Foundation	Direct		1722994	47.050	Geosciences		67,384	
onal Science Foundation	Direct		1724585	47.050	Geosciences		93,969	
onal Science Foundation	Direct		1724744	47.050	Geosciences		158,403	
onal Science Foundation	Direct		1725025	47.050	Geosciences		31,034	
onal Science Foundation	Direct		1725654	47.050	Geosciences		14,638	
onal Science Foundation	Direct		1736606	47.050	Geosciences		19,055	
onal Science Foundation	Direct		1736629	47.050	Geosciences		158,372	
ional Science Foundation	Direct		1738588	47.050	Geosciences		146,618	
ional Science Foundation	Direct		1738896	47.050	Geosciences		24,521	
tional Science Foundation	Direct		1744367	47.050	Geosciences		22,063	15,2
tional Science Foundation	Direct		1763189	47.050	Geosciences		153,539	
tional Science Foundation	Direct		1812949	47.050	Geosciences		69,446	
ional Science Foundation	Direct		1813996 1821173	47.050 47.050	Geosciences		20,238 148,868	

	T			Assistance List			Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	s to Subrecipients
National Science Foundation	Direct		1829627	47.050	Geosciences	68,188	-
National Science Foundation National Science Foundation	Direct		1829822	47.050	Geosciences	60,291 113,348	-
National Science Foundation	Direct		1832214 1836821	47.050 47.050	Geosciences	77,493	-
National Science Foundation	Direct Direct		1830821 1841559	47.050	Geosciences Geosciences	190,404	-
National Science Foundation	Direct		1848724	47.050	Geosciences	274,944	-
National Science Foundation	Direct		1851164	47.050	Geosciences	45,035	-
National Science Foundation	Direct		1851587	47.050	Geosciences	71,687	_
National Science Foundation	Direct		1851618	47.050	Geosciences	21,531	-
National Science Foundation	Direct		1855751	47.050	Geosciences	96,786	-
National Science Foundation	Direct		1903237	47.050	Geosciences	90,074	-
National Science Foundation	Direct		1923568	47.050	Geosciences	141,736	55,769
National Science Foundation	Direct		1924142	47.050	Geosciences	152,088	-
National Science Foundation	Direct		1925627	47.050	Geosciences	20,578	-
National Science Foundation	Direct		1927831	47.050	Geosciences	45,212	-
National Science Foundation	Direct		1928014	47.050	Geosciences	98,714	-
National Science Foundation	Direct		1928317	47.050	Geosciences	57,347	-
National Science Foundation	Direct		1943742	47.050	Geosciences	114,743	-
National Science Foundation	Direct		1948622	47.050	Geosciences	24,100	-
National Science Foundation	Direct		1949151	47.050	Geosciences	35,387	-
National Science Foundation	Direct		2002397	47.050	Geosciences	19,727	-
National Science Foundation	Direct		2002695	47.050	Geosciences	52,363	-
National Science Foundation	Direct		2013433	47.050	Geosciences	81,703	-
National Science Foundation	Direct		2019379	47.050	Geosciences	281	-
National Science Foundation	Direct		2020603	47.050	Geosciences	47,247	-
National Science Foundation	Direct		2020970	47.050	Geosciences	17,282	-
National Science Foundation	Direct		2022716	47.050	Geosciences	33,698	-
National Science Foundation	Direct		2022746	47.050	Geosciences	18,213	-
National Science Foundation	Direct		2031149	47.050	Geosciences	4,211	-
National Science Foundation	Direct		2040610	47.050	Geosciences	10,531	-
National Science Foundation	Direct		2050718	47.050	Geosciences	74,455	-
National Science Foundation	Pass-Through Bowling Gre		10010192-UM05	47.050	Geosciences	96,445	-
National Science Foundation	Pass-Through Columbia U	niversity	90(GG009393)	47.050	Geosciences	50,371	-
National Science Foundation	Pass-Through Columbia U	niversity	90B(GG009393)	47.050	Geosciences	2,289	-
National Science Foundation	Pass-Through Duke Univer	rsity	14-NSF-1028	47.050	Geosciences	44,338	-
National Science Foundation	Pass-Through Georgia Inst	itute of Technology	AWD 100683-G2/PO-5007724	47.050	Geosciences	1,721	-
National Science Foundation	Pass-Through University o	f Arizona	482274	47.050	Geosciences	119,927	-
National Science Foundation		f Illinois-Urbana-Champaign	087882-16531	47.050	Geosciences	(2,307)	
National Science Foundation	Pass-Through University o	f Southern California	131487531	47.050	Geosciences	23,545	
National Science Foundation	Pass-Through Virginia Pol	ytechnic Institute and State University	480012-19337	47.050	Geosciences	(94,879)	
						\$ 5,255,997	
National Science Foundation	Direct		1330142	47.070	Computer and Information Science and Engineering	\$ 42,420	
National Science Foundation	Direct		1421168	47.070	Computer and Information Science and Engineering	(631	) -
National Science Foundation	Direct		1446117	47.070	Computer and Information Science and Engineering	38,849	-
National Science Foundation	Direct		1452099	47.070	Computer and Information Science and Engineering	45,240	-
National Science Foundation	Direct		1452915	47.070	Computer and Information Science and Engineering	160,532	-
National Science Foundation	Direct		1453651	47.070	Computer and Information Science and Engineering	80,155	-
National Science Foundation	Direct		1513596	47.070	Computer and Information Science and Engineering	118,318	-
National Science Foundation	Direct		1514371	47.070	Computer and Information Science and Engineering	(102,877	) -
National Science Foundation	Direct		1518888	47.070	Computer and Information Science and Engineering	34,527	-
National Science Foundation	Direct		1522904	47.070	Computer and Information Science and Engineering	72,080	-
National Science Foundation	Direct		1526059	47.070	Computer and Information Science and Engineering	22,366	-
National Science Foundation	Direct		1526455	47.070	Computer and Information Science and Engineering	187,721	-
National Science Foundation	Direct		1539011	47.070	Computer and Information Science and Engineering Computer and Information Science and Engineering	59,033	59,033
National Science Foundation National Science Foundation	Direct		1541335	47.070		971,394	611,903
National Science Foundation National Science Foundation	Direct		1544678 1544844	47.070	Computer and Information Science and Engineering Computer and Information Science and Engineering	655,844	-
National Science Foundation National Science Foundation	Direct			47.070 47.070		23,162 154,355	-
National Science Foundation National Science Foundation	Direct Direct		1552503 1553146	47.070	Computer and Information Science and Engineering Computer and Information Science and Engineering	154,355 38,797	-
National Science Foundation			1553146	47.070	Computer and Information Science and Engineering	(9,054	-
National Science Foundation National Science Foundation	Direct Direct		1553485	47.070	Computer and Information Science and Engineering Computer and Information Science and Engineering	40,379	, -
National Science Foundation	Direct		1553485 1563849	47.070	Computer and Information Science and Engineering	40,379	-
National Science Foundation	Direct		1607251	47.070	Computer and Information Science and Engineering	37,970	-
National Science Foundation	Direct		1616575	47.070	Computer and Information Science and Engineering	135,824	-
National Science Foundation	Direct		1617319	47.070	Computer and Information Science and Engineering	(4,016	-
National Science Foundation	Direct		1617319	47.070	Computer and Information Science and Engineering	3,436	
National Science Foundation	Direct		1617820	47.070	Computer and Information Science and Engineering	47,752	
National Science Foundation	Direct		1617/898 1618187	47.070	Computer and Information Science and Engineering	47,752 12,247	27,505
National Science Foundation	Direct		1628987	47.070	Computer and Information Science and Engineering	161,790	-
National Science Foundation	Direct		1628987	47.070	Computer and Information Science and Engineering	101,790	-
National Science Foundation	Direct		1629397	47.070	Computer and Information Science and Engineering	23,826	-
							-
National Science Foundation	Direct		1629763	47.070	Computer and Information Science and Engineering	250,382	

Cluster Title/Federal Grantor/Program	Tumo	Boss Thread Country	Award Identifier	Assistance Listi Number	ng Assistance Listing Program Title	Federal Expenditures	Passed-Through
National Science Foundation	Type Direct	Pass-Through Grantor	1633370	47.070	6 6	Federal Expenditures	to Subrecipients
National Science Foundation	Direct		1635370	47.070	Computer and Information Science and Engineering Computer and Information Science and Engineering	25,157	-
National Science Foundation	Direct			47.070	Computer and Information Science and Engineering	102,004	-
			1637546				20.066
National Science Foundation National Science Foundation	Direct		1638186	47.070 47.070	Computer and Information Science and Engineering	304,936	29,966
	Direct		1640575		Computer and Information Science and Engineering Computer and Information Science and Engineering	461,829	-
National Science Foundation	Direct		1646019	47.070		155,110 225,156	-
National Science Foundation	Direct		1646130	47.070	Computer and Information Science and Engineering		-
National Science Foundation	Direct		1646392	47.070	Computer and Information Science and Engineering	94,511	-
National Science Foundation	Direct		1651740	47.070	Computer and Information Science and Engineering	87,774	-
National Science Foundation	Direct		1652294	47.070	Computer and Information Science and Engineering	61,290	-
National Science Foundation	Direct		1657411	47.070	Computer and Information Science and Engineering	12,063	-
National Science Foundation	Direct		1703931	47.070	Computer and Information Science and Engineering	215,744	-
National Science Foundation	Direct		1717064	47.070	Computer and Information Science and Engineering	78,884	-
National Science Foundation	Direct		1717186	47.070	Computer and Information Science and Engineering	87,472	-
National Science Foundation	Direct		1717299	47.070	Computer and Information Science and Engineering	4,403	-
National Science Foundation	Direct		1717523	47.070	Computer and Information Science and Engineering	89,510	-
National Science Foundation	Direct		1717688	47.070	Computer and Information Science and Engineering	131,038	-
National Science Foundation	Direct		1722619	47.070	Computer and Information Science and Engineering	62,226	-
National Science Foundation	Direct		1722801	47.070	Computer and Information Science and Engineering	362,258	-
National Science Foundation	Direct		1727610	47.070	Computer and Information Science and Engineering	1,644	-
National Science Foundation	Direct		1734266	47.070	Computer and Information Science and Engineering	49,846	33,625
National Science Foundation	Direct		1737432	47.070	Computer and Information Science and Engineering	532,466	170,697
National Science Foundation	Direct		1738103	47.070	Computer and Information Science and Engineering	134,806	-
National Science Foundation	Direct		1738714	47.070	Computer and Information Science and Engineering	35,759	-
National Science Foundation	Direct		1739517	47.070	Computer and Information Science and Engineering	22,388	-
National Science Foundation	Direct		1739525	47.070	Computer and Information Science and Engineering	25,856	-
National Science Foundation	Direct		1739577	47.070	Computer and Information Science and Engineering	212,748	56,430
National Science Foundation	Direct		1740897	47.070	Computer and Information Science and Engineering	23,004	-
National Science Foundation	Direct		1741022	47.070	Computer and Information Science and Engineering	77,774	-
National Science Foundation	Direct		1741166	47.070	Computer and Information Science and Engineering	39,966	-
National Science Foundation	Direct		1741190	47.070	Computer and Information Science and Engineering	114,383	-
National Science Foundation	Direct		1741435	47.070	Computer and Information Science and Engineering	10,171	-
National Science Foundation	Direct		1750127	47.070	Computer and Information Science and Engineering	106,876	
National Science Foundation	Direct		1755908	47.070	Computer and Information Science and Engineering	10,232	
National Science Foundation	Direct		1760133	47.070	Computer and Information Science and Engineering	478	_
National Science Foundation	Direct		1763297	47.070	Computer and Information Science and Engineering	53,485	
National Science Foundation	Direct		1763248	47.070	Computer and Information Science and Engineering	101,755	_
National Science Foundation	Direct		1763674	47.070	Computer and Information Science and Engineering	95,367	
National Science Foundation	Direct		1763918	47.070	Computer and Information Science and Engineering	112,998	-
National Science Foundation				47.070		87,482	-
National Science Foundation	Direct		1801342		Computer and Information Science and Engineering	87,482 178,090	-
	Direct		1814507	47.070	Computer and Information Science and Engineering		-
National Science Foundation	Direct		1815291	47.070	Computer and Information Science and Engineering	219,146	-
National Science Foundation	Direct		1815316	47.070	Computer and Information Science and Engineering	140,798	-
National Science Foundation	Direct		1815760	47.070	Computer and Information Science and Engineering	83,565	-
National Science Foundation	Direct		1815790	47.070	Computer and Information Science and Engineering	21,568	-
National Science Foundation	Direct		1815875	47.070	Computer and Information Science and Engineering	95,388	-
National Science Foundation	Direct		1816019	47.070	Computer and Information Science and Engineering	96,935	-
National Science Foundation	Direct		1816319	47.070	Computer and Information Science and Engineering	202,039	-
National Science Foundation	Direct		1823192	47.070	Computer and Information Science and Engineering	222,697	206,541
National Science Foundation	Direct		1829724	47.070	Computer and Information Science and Engineering	140,213	-
National Science Foundation	Direct		1830345	47.070	Computer and Information Science and Engineering	124,058	-
National Science Foundation	Direct		1830615	47.070	Computer and Information Science and Engineering	59,171	-
National Science Foundation	Direct		1832811	47.070	Computer and Information Science and Engineering	106,328	6,672
National Science Foundation	Direct		1835612	47.070	Computer and Information Science and Engineering	160,531	-
National Science Foundation	Direct		1835747	47.070	Computer and Information Science and Engineering	58,198	-
National Science Foundation	Direct		1837245	47.070	Computer and Information Science and Engineering	203,257	-
National Science Foundation	Direct		1837680	47.070	Computer and Information Science and Engineering	94,518	-
National Science Foundation	Direct		1837985	47.070	Computer and Information Science and Engineering	145,079	-
National Science Foundation	Direct		1838179	47.070	Computer and Information Science and Engineering	264,599	33,518
National Science Foundation	Direct		1838994	47.070	Computer and Information Science and Engineering	58,875	_
National Science Foundation	Direct		1839868	47.070	Computer and Information Science and Engineering	449,586	-
National Science Foundation	Direct		1845076	47.070	Computer and Information Science and Engineering	122,398	-
National Science Foundation	Direct		1845491	47.070	Computer and Information Science and Engineering	58,435	-
National Science Foundation	Direct		1845577	47.070	Computer and Information Science and Engineering	163,891	-
National Science Foundation	Direct		1845853	47.070	Computer and Information Science and Engineering	116,136	_
National Science Foundation	Direct		1849893	47.070	Computer and Information Science and Engineering	90,096	-
National Science Foundation	Direct			47.070	Computer and Information Science and Engineering	225,758	-
			1900665		Computer and Information Science and Engineering Computer and Information Science and Engineering		-
National Science Foundation	Direct		1900675	47.070		236,036	-
National Science Foundation	Direct		1901171	47.070	Computer and Information Science and Engineering	121,207	-
National Science Foundation	Direct		1901191	47.070	Computer and Information Science and Engineering	204,651	-
National Science Foundation	Direct		1907553 1908601	47.070	Computer and Information Science and Engineering	46,059	-
National Science Foundation	Direct			47.070	Computer and Information Science and Engineering	35,038	

			Assistance Lis	sting		Passed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Through Gr		Award Identifier Number	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
National Science Foundation	Direct	1908633	47.070	Computer and Information Science and Engineering	62,110	-
National Science Foundation	Direct	1909067	47.070	Computer and Information Science and Engineering	108,842	-
National Science Foundation	Direct	1909771	47.070	Computer and Information Science and Engineering	87,660	-
National Science Foundation	Direct	1910281	47.070	Computer and Information Science and Engineering	112,804	-
National Science Foundation	Direct	1910431	47.070	Computer and Information Science and Engineering Computer and Information Science and Engineering	9,438	-
National Science Foundation National Science Foundation	Direct	1916425 1918123	47.070	1 8 8	41,750 50,554	-
National Science Foundation	Direct		47.070 47.070	Computer and Information Science and Engineering		-
National Science Foundation	Direct Direct	1925476 1928434	47.070	Computer and Information Science and Engineering Computer and Information Science and Engineering	375,413 145,957	-
National Science Foundation	Direct	192041	47.070	Computer and Information Science and Engineering	74,880	26,531
National Science Foundation	Direct	1930041	47.070	Computer and Information Science and Engineering	107,298	20,551
National Science Foundation	Direct	1931962	47.070	Computer and Information Science and Engineering	245,105	_
National Science Foundation	Direct	1934303	47.070	Computer and Information Science and Engineering	143,341	_
National Science Foundation	Direct	1940652	47.070	Computer and Information Science and Engineering	2,146	-
National Science Foundation	Direct	1941633	47.070	Computer and Information Science and Engineering	22,890	-
National Science Foundation	Direct	1942125	47.070	Computer and Information Science and Engineering	77,320	-
National Science Foundation	Direct	1942218	47.070	Computer and Information Science and Engineering	51,639	-
National Science Foundation	Direct	1942547	47.070	Computer and Information Science and Engineering	37,837	-
National Science Foundation	Direct	1947580	47.070	Computer and Information Science and Engineering	66,570	-
National Science Foundation	Direct	1949634	47.070	Computer and Information Science and Engineering	193,719	-
National Science Foundation	Direct	1955777	47.070	Computer and Information Science and Engineering	23,739	-
National Science Foundation	Direct	2001687	47.070	Computer and Information Science and Engineering	47,677	-
National Science Foundation	Direct	2002608	47.070	Computer and Information Science and Engineering	98,095	-
National Science Foundation	Direct	2003924	47.070	Computer and Information Science and Engineering	272,041	161,527
National Science Foundation	Direct	2006455	47.070	Computer and Information Science and Engineering	137,233	-
National Science Foundation	Direct	2006618	47.070	Computer and Information Science and Engineering	49,485	-
National Science Foundation	Direct	2006619	47.070	Computer and Information Science and Engineering	28,269	-
National Science Foundation	Direct	2006704	47.070	Computer and Information Science and Engineering	109,778	-
National Science Foundation	Direct	2006857	47.070	Computer and Information Science and Engineering	199,335	-
National Science Foundation	Direct	2007055	47.070	Computer and Information Science and Engineering	90,440	-
National Science Foundation	Direct	2007251	47.070	Computer and Information Science and Engineering	76,714	-
National Science Foundation	Direct	2007256	47.070	Computer and Information Science and Engineering	34,965	-
National Science Foundation	Direct	2007857	47.070	Computer and Information Science and Engineering	67,009	-
National Science Foundation	Direct	2007878	47.070	Computer and Information Science and Engineering	44,651	-
National Science Foundation	Direct	2008074	47.070	Computer and Information Science and Engineering	47,263	-
National Science Foundation	Direct	2008130	47.070	Computer and Information Science and Engineering	83,910	-
National Science Foundation	Direct	2008151	47.070	Computer and Information Science and Engineering	129,900	-
National Science Foundation	Direct	2010810	47.070	Computer and Information Science and Engineering	13,081	-
National Science Foundation	Direct	2012001	47.070	Computer and Information Science and Engineering	21,952	-
National Science Foundation	Direct	2014003	47.070	Computer and Information Science and Engineering	31,833	-
National Science Foundation	Direct	2016363	47.070	Computer and Information Science and Engineering	31,400	-
National Science Foundation	Direct	2018915	47.070	Computer and Information Science and Engineering	40,874	-
National Science Foundation	Direct	2025431	47.070	Computer and Information Science and Engineering	22,668	-
National Science Foundation	Direct	2030454	47.070	Computer and Information Science and Engineering	161,123	-
National Science Foundation	Direct	2031019	47.070	Computer and Information Science and Engineering	576	-
National Science Foundation	Direct	2031077	47.070	Computer and Information Science and Engineering	199,886	-
National Science Foundation	Direct	2031662	47.070	Computer and Information Science and Engineering	126,167	-
National Science Foundation	Direct	2035770	47.070	Computer and Information Science and Engineering	3,517	-
National Science Foundation	Direct	2038432	47.070	Computer and Information Science and Engineering	96,972	-
National Science Foundation	Direct	2045492	47.070	Computer and Information Science and Engineering	502	-
National Science Foundation	Direct	2100885	47.070	Computer and Information Science and Engineering	49,256	-
National Science Foundation National Science Foundation	Direct Base Through Computing Research Association (CRA)	2115300 CIF2020-U	47.070 M-32 47.070	Computer and Information Science and Engineering	10,660	-
National Science Foundation	Pass-Through Computing Research Association (CRA)	R1383	M-32 47.070 47.070	Computer and Information Science and Engineering	20,131	-
National Science Foundation National Science Foundation	Pass-Through Dartmouth College Pass-Through Molecular Sciences Software Institute (MolSSI)	K1383 479590	47.070	Computer and Information Science and Engineering Computer and Information Science and Engineering	111,947 43,396	-
National Science Foundation	Pass-Through Morehouse College	1831964-00		Computer and Information Science and Engineering	43,396 22,701	-
National Science Foundation National Science Foundation	Pass-I nrough Morehouse College Pass-Through Morehouse College	1831964-00		Computer and Information Science and Engineering Computer and Information Science and Engineering	22,701 24,730	-
National Science Foundation	Pass-Through Morenouse Conege Pass-Through Platforms for Advanced Wireless Research (PAWR			Computer and Information Science and Engineering	(19,828)	-
National Science Foundation	Pass-Through Platforms for Advanced Wireless Research (PAWR			Computer and Information Science and Engineering	92,054	-
National Science Foundation	Pass-Through Stony Brook University	79217/1142		Computer and Information Science and Engineering	21,537	_
National Science Foundation	Pass-Through Syracuse University	30492-0506		Computer and Information Science and Engineering	40,666	_
National Science Foundation	Pass-Through University of California-San Diego	77845292	47.070	Computer and Information Science and Engineering	239,377	-
National Science Foundation	Pass-Through University of Chicago	FP066185		Computer and Information Science and Engineering	231,310	-
National Science Foundation	Pass-Through University of Colorado Boulder	1558761	47.070	Computer and Information Science and Engineering	167,127	-
National Science Foundation	Pass-Through University of Ellinois at Chicago	17597	47.070	Computer and Information Science and Engineering	11,038	-
National Science Foundation	Pass-Through University of Nebraska-Lincoln	25-0511-01		Computer and Information Science and Engineering	72,018	-
National Science Foundation	Pass-Through University of Washington	UWSC9862		Computer and Information Science and Engineering	163,716	-
National Science Foundation	Pass-Through Virginia Polytechnic Institute and State University	479589-193		Computer and Information Science and Engineering	21,197	-
National Science Foundation	Pass-Through Virginia Polytechnic Institute and State University	479590	47.070	Computer and Information Science and Engineering	31,415	-
National Science Foundation	Pass-Through Virginia Polytechnic Institute and State University	479590-193		Computer and Information Science and Engineering	28,086	-
					\$ 18,279,711	\$ 1,423,746
National Science Foundation	Direct	1340681	47.074	Biological Sciences	\$ (293)	
				0	. (275)	

	T			Assistance List			Passed-Through
Cluster Title/Federal Grantor/Program	Type	Pass-Through Grantor	Award Identifi 1444400	er <u>Number</u> 47.074	Assistance Listing Program Title	Federal Expenditures to	o Subrecipients
National Science Foundation National Science Foundation	Direct Direct		1444400	47.074	Biological Sciences Biological Sciences	5,857 111,901	-
National Science Foundation	Direct		1452050	47.074	Biological Sciences	16,459	-
National Science Foundation	Direct		1456518	47.074	Biological Sciences	6,736	-
National Science Foundation	Direct		1458466	47.074	Biological Sciences	(54)	_
National Science Foundation	Direct		1552439	47.074	Biological Sciences	108,252	_
National Science Foundation	Direct		1553031	47.074	Biological Sciences	105,668	_
National Science Foundation	Direct		1556585	47.074	Biological Sciences	14,595	-
National Science Foundation	Direct		1557564	47.074	Biological Sciences	99,983	-
National Science Foundation	Direct		1557831	47.074	Biological Sciences	83,890	1,047
National Science Foundation	Direct		1557850	47.074	Biological Sciences	82,200	-
National Science Foundation	Direct		1560096	47.074	Biological Sciences	(11,605)	-
National Science Foundation	Direct		1564756	47.074	Biological Sciences	(9,028)	-
National Science Foundation	Direct		1612917	47.074	Biological Sciences	(10,946)	-
National Science Foundation	Direct		1615338	47.074	Biological Sciences	84,245	-
National Science Foundation	Direct		1615586	47.074	Biological Sciences	1,263	-
National Science Foundation	Direct		1617364	47.074	Biological Sciences	136,335	84,649
National Science Foundation	Direct		1651614	47.074	Biological Sciences	300,659	-
National Science Foundation	Direct		1655607	47.074	Biological Sciences	199,995	-
National Science Foundation	Direct		1655720	47.074	Biological Sciences	30,358	-
National Science Foundation	Direct		1655856	47.074	Biological Sciences	148,724	-
National Science Foundation	Direct		1657527	47.074	Biological Sciences	38,102	-
National Science Foundation	Direct		1701713	47.074	Biological Sciences	52,838	-
National Science Foundation	Direct		1707316	47.074	Biological Sciences	905,040	181,114
National Science Foundation	Direct		1714539	47.074	Biological Sciences	118,038	-
National Science Foundation	Direct		1716403	47.074	Biological Sciences	5,955	-
National Science Foundation	Direct		1737680	47.074	Biological Sciences	(534)	-
National Science Foundation	Direct		1748729	47.074	Biological Sciences	204,346	-
National Science Foundation	Direct		1749627	47.074	Biological Sciences	56,145	-
National Science Foundation	Direct		1753731	47.074	Biological Sciences	157,314	-
National Science Foundation	Direct		1754163	47.074	Biological Sciences	45,788	-
National Science Foundation	Direct		1754369	47.074	Biological Sciences	257,906	-
National Science Foundation	Direct		1754398	47.074	Biological Sciences	103,866	-
National Science Foundation	Direct		1755268	47.074	Biological Sciences	193,574	-
National Science Foundation	Direct		1755482	47.074	Biological Sciences	87,276	1,447
National Science Foundation	Direct		1756202	47.074	Biological Sciences	(687)	-
National Science Foundation	Direct		1759826	47.074	Biological Sciences	131,509	-
National Science Foundation	Direct		1802033	47.074	Biological Sciences	49,434	9,007
National Science Foundation	Direct		1813069	47.074	Biological Sciences	286,893	170,010
National Science Foundation	Direct		1817478	47.074	Biological Sciences	183,842	-
National Science Foundation	Direct		1817697	47.074	Biological Sciences	246,927	-
National Science Foundation	Direct		1817909	47.074	Biological Sciences	322,501	-
National Science Foundation	Direct		1834688	47.074	Biological Sciences	42,102	-
National Science Foundation	Direct		1845012	47.074	Biological Sciences	159,520	-
National Science Foundation	Direct		1851985	47.074	Biological Sciences	88,414	-
National Science Foundation	Direct		1852074	47.074	Biological Sciences	6,305	-
National Science Foundation	Direct		1853261	47.074	Biological Sciences	128,346	-
National Science Foundation	Direct		1854359	47.074	Biological Sciences	50,920	-
National Science Foundation	Direct		1855425	47.074	Biological Sciences	235,443	-
National Science Foundation	Direct		1856319	47.074	Biological Sciences	71,460	18,324
National Science Foundation	Direct		1902113	47.074	Biological Sciences	44,578	-
National Science Foundation	Direct		1902119	47.074	Biological Sciences	1,776	-
National Science Foundation	Direct		1902359	47.074	Biological Sciences	227,214	-
National Science Foundation	Direct		1910720	47.074	Biological Sciences	36,674	-
National Science Foundation	Direct		1911322	47.074	Biological Sciences	114,817	-
National Science Foundation	Direct		1917146	47.074	Biological Sciences	117,671	-
National Science Foundation	Direct		1921677	47.074	Biological Sciences	585,144	148,520
National Science Foundation	Direct		1923206	47.074	Biological Sciences	244,061	-
National Science Foundation	Direct		1929737	47.074	Biological Sciences	26,528	-
National Science Foundation	Direct		1929738	47.074	Biological Sciences	154,936	-
National Science Foundation	Direct		1930030	47.074	Biological Sciences	28,298	-
National Science Foundation	Direct		1934703	47.074	Biological Sciences	191,647	-
National Science Foundation	Direct		1935265	47.074	Biological Sciences	239,089	119,823
National Science Foundation	Direct		1935926	47.074	Biological Sciences	215,803	-
National Science Foundation	Direct		1941796	47.074	Biological Sciences	254,446	-
National Science Foundation	Direct		1941822	47.074	Biological Sciences	73,924	-
National Science Foundation	Direct		1941966	47.074	Biological Sciences	135,173	-
National Science Foundation	Direct		1942398	47.074	Biological Sciences	113,416	-
National Science Foundation	Direct		1944881	47.074	Biological Sciences	33,800	-
National Science Foundation	Direct		2010851	47.074	Biological Sciences	137,640	-
National Science Foundation	Direct		2013809	47.074	Biological Sciences	806	-
National Science Foundation							

Chuston Title/Fodge-1 Caratan/Dara	Tune	Boos Thussel Country	۸	Assistance List			sed-Throu
Cluster Title/Federal Grantor/Program National Science Foundation	Type Direct	Pass-Through Grantor	Award Identifier 2025426	47.074	Assistance Listing Program Title Biological Sciences	Federal Expenditures to S 182,361	ubrecipien
National Science Foundation	Direct		2023426 2030541	47.074	Biological Sciences	94,699	-
Vational Science Foundation	Direct		2030790	47.074	Biological Sciences	158,485	-
							-
National Science Foundation National Science Foundation	Direct		2033320	47.074	Biological Sciences	42,118	-
	Direct		2045562	47.074	Biological Sciences	69,403	-
National Science Foundation	Direct		2046005	47.074	Biological Sciences	87,898	-
National Science Foundation	Pass-Through Chicago State	-	53118	47.074	Biological Sciences	3,874	-
National Science Foundation	Pass-Through Eastern Michig		R71053-3210	47.074	Biological Sciences	14,912	-
National Science Foundation	Pass-Through Louisiana State		PO-0000113456	47.074	Biological Sciences	70,174	-
National Science Foundation	Pass-Through Marine Biologi		52806	47.074	Biological Sciences	121,934	-
National Science Foundation	Pass-Through Michigan State		RC106385UM	47.074	Biological Sciences	168,373	-
National Science Foundation	Pass-Through Missouri Botar		NSF08115UOM	47.074	Biological Sciences	37,678	-
National Science Foundation	Pass-Through University of I		101043-18014	47.074	Biological Sciences	2,825	-
National Science Foundation	Pass-Through Woods Hole O	ceanographic Institute	A101378	47.074	Biological Sciences	(1,385)	-
						\$ 9,771,460 \$	733,94
National Science Foundation	Direct		1348013	47.075	Social, Behavioral, and Economic Sciences	\$ (22) \$	-
National Science Foundation	Direct		1348957	47.075	Social, Behavioral, and Economic Sciences	(4,043)	-
National Science Foundation	Direct		1530628	47.075	Social, Behavioral, and Economic Sciences	(888)	-
National Science Foundation	Direct		1539228	47.075	Social, Behavioral, and Economic Sciences	188,724	-
National Science Foundation	Direct		1551513	47.075	Social, Behavioral, and Economic Sciences	8,302	-
National Science Foundation	Direct		1552429	47.075	Social, Behavioral, and Economic Sciences	50,673	-
National Science Foundation	Direct		1555460	47.075	Social, Behavioral, and Economic Sciences	19,419	-
National Science Foundation	Direct		1623684	47.075	Social, Behavioral, and Economic Sciences	6,280,620	_
National Science Foundation	Direct		1627464	47.075	Social, Behavioral, and Economic Sciences	36,810	-
National Science Foundation	Direct		1631409	47.075	Social, Behavioral, and Economic Sciences	11,556	15,22
National Science Foundation	Direct		1636754	47.075	Social, Behavioral, and Economic Sciences	(1,965)	13,22
National Science Foundation				47.075			-
	Direct		1638553		Social, Behavioral, and Economic Sciences	4,148	-
National Science Foundation	Direct		1658268	47.075	Social, Behavioral, and Economic Sciences	189,052	-
National Science Foundation	Direct		1658336	47.075	Social, Behavioral, and Economic Sciences	164,782	-
National Science Foundation	Direct		1724436	47.075	Social, Behavioral, and Economic Sciences	(100)	(10
National Science Foundation	Direct		1727491	47.075	Social, Behavioral, and Economic Sciences	55,499	-
National Science Foundation	Direct		1728792	47.075	Social, Behavioral, and Economic Sciences	52,547	-
National Science Foundation	Direct		1728959	47.075	Social, Behavioral, and Economic Sciences	83,064	-
National Science Foundation	Direct		1729115	47.075	Social, Behavioral, and Economic Sciences	10,227	-
National Science Foundation	Direct		1733546	47.075	Social, Behavioral, and Economic Sciences	66,566	-
National Science Foundation	Direct		1744065	47.075	Social, Behavioral, and Economic Sciences	56,462	-
National Science Foundation	Direct		1744724	47.075	Social, Behavioral, and Economic Sciences	170,577	39,07
National Science Foundation	Direct		1749430	47.075	Social, Behavioral, and Economic Sciences	3,361	-
National Science Foundation	Direct		1757147	47.075	Social, Behavioral, and Economic Sciences	33,835	-
National Science Foundation	Direct		1759199	47.075	Social, Behavioral, and Economic Sciences	160,460	
National Science Foundation	Direct		1760058	47.075	Social, Behavioral, and Economic Sciences	86,236	-
				47.075			-
National Science Foundation	Direct		1760238		Social, Behavioral, and Economic Sciences	(524)	-
National Science Foundation	Direct		1760644	47.075	Social, Behavioral, and Economic Sciences	15,735	-
National Science Foundation	Direct		1762420	47.075	Social, Behavioral, and Economic Sciences	68,103	-
National Science Foundation	Direct		1823629	47.075	Social, Behavioral, and Economic Sciences	94,484	-
National Science Foundation	Direct		1824839	47.075	Social, Behavioral, and Economic Sciences	10,189	-
National Science Foundation	Direct		1825113	47.075	Social, Behavioral, and Economic Sciences	89,916	-
National Science Foundation	Direct		1830705	47.075	Social, Behavioral, and Economic Sciences	436	-
National Science Foundation	Direct		1831347	47.075	Social, Behavioral, and Economic Sciences	232,351	-
National Science Foundation	Direct		1835971	47.075	Social, Behavioral, and Economic Sciences	3,905,909	167,85
National Science Foundation	Direct		1846747	47.075	Social, Behavioral, and Economic Sciences	54,901	-
National Science Foundation	Direct		1849638	47.075	Social, Behavioral, and Economic Sciences	145,463	-
National Science Foundation	Direct		1850328	47.075	Social, Behavioral, and Economic Sciences	8,376	-
National Science Foundation	Direct		1901661	47.075	Social, Behavioral, and Economic Sciences	82,503	-
Vational Science Foundation	Direct		1917663	47.075	Social, Behavioral, and Economic Sciences	189,454	_
Vational Science Foundation	Direct		1917/003	47.075	Social, Behavioral, and Economic Sciences	60,941	-
Vational Science Foundation	Direct		1917/27 1918093	47.075	Social, Behavioral, and Economic Sciences	(567)	-
Jational Science Foundation				47.075			-
	Direct		1919360		Social, Behavioral, and Economic Sciences	101,608	-
Vational Science Foundation	Direct		1919362	47.075	Social, Behavioral, and Economic Sciences	107,044	-
Vational Science Foundation	Direct		1919671	47.075	Social, Behavioral, and Economic Sciences	3,428	-
Vational Science Foundation	Direct		1925563	47.075	Social, Behavioral, and Economic Sciences	273,874	-
Vational Science Foundation	Direct		1925693	47.075	Social, Behavioral, and Economic Sciences	611,663	-
Jational Science Foundation	Direct		1926576	47.075	Social, Behavioral, and Economic Sciences	520,286	128,8
Jational Science Foundation	Direct		1926653	47.075	Social, Behavioral, and Economic Sciences	101,930	-
Vational Science Foundation	Direct		1927384	47.075	Social, Behavioral, and Economic Sciences	7,770	-
Vational Science Foundation	Direct		1930645	47.075	Social, Behavioral, and Economic Sciences	192,677	-
lational Science Foundation	Direct		1931049	47.075	Social, Behavioral, and Economic Sciences	(722)	-
lational Science Foundation	Direct		1938154	47.075	Social, Behavioral, and Economic Sciences	18,720	
lational Science Foundation	Direct		1938134	47.075	Social, Behavioral, and Economic Sciences	47,680	-
Jational Science Foundation	Direct		1941828 1945121	47.075	Social, Behavioral, and Economic Sciences	47,880 99,885	-
Vational Science Foundation							-
	Direct		1945701	47.075	Social, Behavioral, and Economic Sciences	3,274	-
Vational Science Foundation	Direct		1946936	47.075	Social, Behavioral, and Economic Sciences	24,934	

				Assistance Listi			Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	
National Science Foundation	Direct		1954703	47.075	Social, Behavioral, and Economic Sciences	1,260	
National Science Foundation	Direct		2013753	47.075	Social, Behavioral, and Economic Sciences	230,804	
National Science Foundation	Direct		2017068	47.075	Social, Behavioral, and Economic Sciences	71,361	
National Science Foundation National Science Foundation	Direct		2018489	47.075	Social, Behavioral, and Economic Sciences	2,045	
	Direct		2020648	47.075	Social, Behavioral, and Economic Sciences	54,382	
National Science Foundation National Science Foundation	Direct		2020872 2023639	47.075 47.075	Social, Behavioral, and Economic Sciences	98,826 28,075	
National Science Foundation	Direct Direct		2027513	47.075	Social, Behavioral, and Economic Sciences Social, Behavioral, and Economic Sciences	35,574	
National Science Foundation	Direct		2027513	47.075	Social, Behavioral, and Economic Sciences	52,453	
National Science Foundation	Direct		2027745	47.075	Social, Behavioral, and Economic Sciences	66,992	
National Science Foundation	Direct		2027822	47.075	Social, Behavioral, and Economic Sciences	68,792	
National Science Foundation	Direct		2027836	47.075	Social, Behavioral, and Economic Sciences	157,397	
National Science Foundation	Direct		2030059	47.075	Social, Behavioral, and Economic Sciences	94,301	
National Science Foundation	Direct		2035095	47.075	Social, Behavioral, and Economic Sciences	74,964	
National Science Foundation	Direct		2041233	47.075	Social, Behavioral, and Economic Sciences	667	-
National Science Foundation	Direct		2048505	47.075	Social, Behavioral, and Economic Sciences	30,682	-
National Science Foundation	Direct		2104384	47.075	Social, Behavioral, and Economic Sciences	20,007	
National Science Foundation	Pass-Through American S	ociological Association	Grant Agreement	47.075	Social, Behavioral, and Economic Sciences	3,200	
National Science Foundation	Pass-Through Carnegie-M	ellon University	1122455-370028	47.075	Social, Behavioral, and Economic Sciences	13,279	
National Science Foundation	Pass-Through Decision Re		18-01	47.075	Social, Behavioral, and Economic Sciences	(151)	
National Science Foundation	Pass-Through Indiana Uni		BL-4831222-UM/PO0097554	47.075	Social, Behavioral, and Economic Sciences	6,283	
National Science Foundation	Pass-Through Johns Hopk		PO 2003171568	47.075	Social, Behavioral, and Economic Sciences	150,318	
National Science Foundation	Pass-Through Michigan St		RC104160UM	47.075	Social, Behavioral, and Economic Sciences	6,179	
National Science Foundation		dowment for the Humanities	PD-255909-17	47.075	Social, Behavioral, and Economic Sciences	6,447	
National Science Foundation		an Political Science Association	Research Agreement	47.075	Social, Behavioral, and Economic Sciences	4,620	
National Science Foundation	Pass-Through The Preside	nt and Fellows of Harvard College aka Harvard University	136392-5116305	47.075	Social, Behavioral, and Economic Sciences	82,119	-
National Science Foundation	Pass-Through University of		2019-3782	47.075	Social, Behavioral, and Economic Sciences	12,553	
National Science Foundation	Pass-Through Yale Univer		GR108055 (CON-80002055)	47.075	Social, Behavioral, and Economic Sciences	34,903	
	0					\$ 16,205,955	\$ 381,313
National Science Foundation	Direct		1420102	47.076	Education and Human Resources		s -
National Science Foundation	Direct		1458375	47.076	Education and Human Resources	78,732	-
National Science Foundation	Direct		1502778	47.076	Education and Human Resources	312,491	-
National Science Foundation	Direct		1524967	47.076	Education and Human Resources	229,086	-
National Science Foundation	Direct		1535389	47.076	Education and Human Resources	45,754	-
National Science Foundation	Direct		1609204	47.076	Education and Human Resources	49,554	-
National Science Foundation	Direct		1611687	47.076	Education and Human Resources	41,448	-
National Science Foundation	Direct		1619681	47.076	Education and Human Resources	1,008,291	397,972
National Science Foundation	Direct		1621104	47.076	Education and Human Resources	583,948	-
National Science Foundation	Direct		1625387	47.076	Education and Human Resources	3,127	-
National Science Foundation	Direct		1625397	47.076	Education and Human Resources	141,099	-
National Science Foundation	Direct		1665117	47.076	Education and Human Resources	12,873	-
National Science Foundation	Direct		1711533	47.076	Education and Human Resources	(1,315)	) -
National Science Foundation	Direct		1725837	47.076	Education and Human Resources	386,813	-
National Science Foundation	Direct		1743150	47.076	Education and Human Resources	55,130	-
National Science Foundation	Direct		1760609	47.076	Education and Human Resources	301,455	-
National Science Foundation	Direct		1760788	47.076	Education and Human Resources	632,042	-
National Science Foundation	Direct		1761129	47.076	Education and Human Resources	186,329	-
National Science Foundation	Direct		1821488	47.076	Education and Human Resources	224,870	-
National Science Foundation	Direct		1821509	47.076	Education and Human Resources	233,403	-
National Science Foundation	Direct		1821574	47.076	Education and Human Resources	67,993	-
National Science Foundation	Direct		1821884	47.076	Education and Human Resources	18,930	-
National Science Foundation	Direct		1841052	47.076	Education and Human Resources	9,131,046	-
National Science Foundation	Direct		1845841	47.076	Education and Human Resources	158,484	-
National Science Foundation	Direct		1915345	47.076	Education and Human Resources	403,613	24,479
National Science Foundation	Direct		1915515	47.076	Education and Human Resources	80,041	-
National Science Foundation	Direct		1928501	47.076	Education and Human Resources	69,039	
National Science Foundation	Direct		1930072	47.076	Education and Human Resources	311,292	43,840
National Science Foundation	Direct		1937251	47.076	Education and Human Resources	319,004	-
National Science Foundation	Direct		1937509	47.076	Education and Human Resources	161,011	-
National Science Foundation	Direct		1942274	47.076	Education and Human Resources	97,483	
National Science Foundation	Direct		1954967	47.076	Education and Human Resources	133,587	-
National Science Foundation	Direct		1954981	47.076	Education and Human Resources	105,913	
National Science Foundation	Direct		2000189	47.076	Education and Human Resources	277,582	
National Science Foundation	Direct		2000518	47.076	Education and Human Resources	170,602	-
National Science Foundation	Direct		2000579	47.076	Education and Human Resources	312,195	
National Science Foundation	Direct		2000580	47.076	Education and Human Resources	4,791	-
National Science Foundation	Direct		2000602	47.076	Education and Human Resources	175,857	
National Science Foundation	Direct		2000730	47.076	Education and Human Resources	78,957	19,584
National Science Foundation	Direct		2005812	47.076	Education and Human Resources	43,338	-
National Science Foundation			2012410	47.076	Education and Human Resources	70 (97	
National Science Foundation	Direct		2013410	47.076	Education and Fruman Resources	70,687	-
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	National Science Foundation	Direct		1253154	47.078	Polar Programs			
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National Science Foundation         Direct         209306         47,RD         154,968         -           National Science Foundation         Direct         205971         47,RD         459,907         -           National Science Foundation         Direct         49004200200         47,RD         156,414         -           National Science Foundation         Direct         49004200200         47,RD         256,53         -           National Science Foundation         Direct         150,414         -         48,83         -           National Science Foundation         Direct         160,414         -         48,83         -           National Science Foundation         Direct         162,21         -									120,200
National Science FoundationDirect205047147.RD99.00797.007National Science FoundationDirect49100420002047.RD150.41448.85National Science FoundationDirect49100420002047.RD26.0332National Science FoundationDirect19.0420002047.RD28.0332National Science FoundationDirect19.0420002047.RD28.0332National Science FoundationDirect19.0420002047.RD28.0332National Science FoundationDirect19.0420002047.RD28.03322National Science FoundationPass-Through American Sociological AssociationAgreement47.RD45.0022-National Science FoundationPass-Through Boston University45000321047.RD35.002National Science FoundationPass-Through Boston University45000322147.RD33.90.84National Science FoundationPass-Through Boston University45000373747.RDNational Science FoundationPass-Through Boston University45000373747.RDNational Science FoundationPass-Through Boston University45000373747.RD <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></t<>									-
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National Science Foundation       Direct       491042C0020       47.RD       150,414       48.83         National Science Foundation       Direct       PA Agreement       47.RD       226,033       -         National Science Foundation       Direct       PA Agreement       47.RD       226,033       -         National Science Foundation       Pass-Through American Educational Research Association       Grant Agreement       47.RD       16,521       -         National Science Foundation       Pass-Through American Educational Research Association       Grant Agreement       47.RD       355,707       -         National Science Foundation       Pass-Through Boston University       450000220       47.RD       355,807       -         National Science Foundation       Pass-Through Boston University       4500003221       47.RD       28,376       -         National Science Foundation       Pass-Through Boston University       4500003737       47.RD       28,390.84       -         National Science Foundation       Pass-Through Boston University       4500003737       47.RD       63,390.84       -         National Science Foundation       Pass-Through Boston University       K500003737       47.RD       68,077       -         National Science Foundation       Pass-Through Cheridge Intri									
National Science Foundation       Direct       490421 C0018       47.RD       24.833       -         National Science Foundation       Direct       IPA Agreement       47.RD       28.633       -         National Science Foundation       Direct       IPA Agreement       47.RD       435.902       -         National Science Foundation       Pass-Through American Sociological Association       Grant Agreement       47.RD       16.52       -         National Science Foundation       Pass-Through Boston University       4500003210       47.RD       355.807       -         National Science Foundation       Pass-Through Boston University       4500003220       47.RD       353.908       -         National Science Foundation       Pass-Through Boston University       4500003210       47.RD       339.084       -         National Science Foundation       Pass-Through Boston University       4500003736       47.RD       339.084       -         National Science Foundation       Pass-Through Boston University       500003736       47.RD       33.90.84       -         National Science Foundation       Pass-Through Anteria Science Foundation       Pass-Through Boston University       SuboonTract Agreement       47.RD       43.93.9       -         National Science Foundation       Pas									18 850
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Cluster Title/Federal Grantor/ProgramTypeVeterans Affairs, Department ofDirectVeterans Affairs, Department ofDi	Pass-Through Grantor	Award Identifier           36C24119C0060           36C24E12C0002           36C25018C0241           36C25018C0241           36C25018C0247           36C25018C0267           36C25019C0203           36C25019C0203           36C25019C0203           36C25019C0203           36C2500D0073           36C25020D0073           36C25020D0073           36C25020D0073           36C25020P178           36C25020P170           36C25020P1898           36C25020P170           36C25020P1898           36C25020P1898           36C25020P1898           36C25020P1898           36C25020P1898           36C25020P1898           36C25020P1898           36C25020P1898	Number           64.RD           64.RD<	Assistance Listing Program Title	Federal Expenditures 53,438 62,144 14,009 51,966 6,229 84,193 (6,722) (15) 29,149 7,972 42,024 5,880 740 33,587 28,365 6,693 2,855 10,842 7,035 2,371 55,484 27,421	to Subrecipients
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Veterans Affairs, Department of     Direct       Veterans Affairs, Department		IPA - Chen, Jijun IPA - Chen, Jijun IPA - Girard, Rachel			4,910	-
Veterans Affairs, Department of     Direct       Veterans Affairs, Department		IPA - Chen, Jijun IPA - Girard, Rachel				-
Veterans Affairs, Department of     Direct       Veterans Affairs, Department		IPA - Girard, Rachel			12,412	-
Veterans Affairs, Department of     Direct       Veterans Affairs, Department			64.RD		39,812	-
Veterans Affairs, Department of     Direct       Veterans Affairs, Department			64.RD		22,105	-
Veterans Affairs, Department of     Direct       Veterans Affairs, Department			64.RD		24,424	-
Veterans Affairs, Department of     Direct       Veterans Affairs, Department		IPA - Guy, Joey Lee	64.RD		24,424	-
Veterans Affairs, Department of     Direct       Veterans Affairs, Department		IPA - Ha, Jinkyung	64.RD		5,093	-
Veterans Affairs, Department of     Direct       Veterans Affairs, Department		IPA - Haus, Eileen	64.RD		29,151	-
Veterans Affairs, Department of     Direct		IPA - Helminski, Danielle	64.RD		29,172	-
Veterans Affairs, Department of     Direct		IPA - Kanicki-Akin, Ariane	64.RD		17,272	-
Veterans Affairs, Department of     Direct		IPA - Karwowski, Danielle	64.RD		5,715	-
Veterans Affairs, Department of     Direct		IPA - Krans, Amy	64.RD		16,522	-
Veterans Affairs, Department of     Direct		IPA - Krans, Amy	64.RD		52,768	-
Veterans Affairs, Department of     Direct		IPA - Lee, Soo Jung	64.RD		628	-
Veterans Affairs, Department of     Direct		IPA - Lee, Soo Jung	64.RD		2,703	-
Veterans Affairs, Department of     Direct		IPA - Ojeda, Lauro	64.RD		(4,184)	-
Veterans Affairs, Department of     Direct		IPA - Padgett, Michael	64.RD		1,709	-
Veterans Affairs, Department of     Direct		IPA - Robinson, Dan	64.RD		1,575	-
Veterans Affairs, Department of     Direct		IPA - Tank, Elizabeth	64.RD		4,190	-
Veterans Affairs, Department of     Direct		IPA - Tank, Elizabeth	64.RD		15,039	-
Veterans Affairs, Department of     Direct		IPA - Valbona Metko	64.RD		8,821	-
Veterans Affairs, Department of     Direct		IPA - Vats, Pankaj	64.RD		862	-
Veterans Affairs, Department of         Direct		IPA - Villegas-Umana, Emily T.	64.RD		4,173	-
Veterans Affairs, Department of         Direct           Veterans Affairs, Department of         Direct           Veterans Affairs, Department of         Direct		IPA - Villegas-Umana, Emily T.	64.RD		7,048	_
Veterans Affairs, Department of Direct Veterans Affairs, Department of Direct		IPA - Villegas-Umana, Emily T.	64.RD		24,755	_
Veterans Affairs, Department of Direct		IPA - Weston, Michele	64.RD		16,437	_
		IPA - Yu, Fen	64.RD		12,371	-
Vicialis Arians, Department of Direct		IPA - Zhang, Xiaojie	64.RD		11,682	-
Vatarana Affaira Donartmont of Direct			64.RD			-
Veterans Affairs, Department of Direct		IPA - Zhang, Xiaojie			61,280	-
Veterans Affairs, Department of Direct		IPA Agreement Semerad, Jay - F	64.RD		793	-
Veterans Affairs, Department of Direct		IPA Ameling, Jessica	64.RD		1,237	-
Veterans Affairs, Department of Direct		IPA Ashe, Doctor	64.RD		5,148	-
Veterans Affairs, Department of Direct		IPA Baker, Nicki	64.RD		27,027	-
Veterans Affairs, Department of Direct		IPA Baker, Nicki	64.RD		34,819	-
Veterans Affairs, Department of Direct		IPA Bauer,David	64.RD		3,272	-
Veterans Affairs, Department of Direct		IPA Cartee, Naw May Pearl	64.RD		10,235	-
Veterans Affairs, Department of Direct		IPA Cartee, Naw May Pearl	64.RD		54,148	-
Veterans Affairs, Department of Direct		IPA Chang, Shelly	64.RD		2,249	-
Veterans Affairs, Department of Direct		IPA Chen, Jenny	64.RD		29,926	-
Veterans Affairs, Department of Direct		IPA Chen, Jenny	64.RD		17,575	-
Veterans Affairs, Department of Direct		IPA Cohn, Amy	64.RD		42,704	-
Veterans Affairs, Department of Direct		IPA Cyrus Sarosh	64.RD		21,543	-
Veterans Affairs, Department of Direct			64.RD		22,621	-
Veterans Affairs, Department of Direct		IPA Denton, Brian	64.RD		10,885	-
Veterans Affairs, Department of Direct			64.RD		13,693	-
Veterans Affairs, Department of Direct		IPA Denton, Brian			(9,463)	
Veterans Affairs, Department of Direct		IPA Denton, Brian IPA Ehrlinger, Rachel	64.RD		(-, 105)	-

				Assistance Listing			Passed-Through
Cluster Title/Federal Grantor/Program	Type	Pass-Through Grantor	Award Identifier	Number 64.RD	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
Veterans Affairs, Department of Veterans Affairs, Department of	Direct Direct		IPA Funes Lora, Miguel IPA Garlick, James	64.RD 64.RD		75,798 1,310	-
			IPA Garnek, James IPA Geisendorfer, Max	64.RD		23,202	-
Veterans Affairs, Department of Veterans Affairs, Department of	Direct		IPA Geisendorfer, Max IPA Geisendorfer, Max	64.RD		23,202 24,316	-
Veterans Affairs, Department of Veterans Affairs, Department of	Direct Direct		IPA Gelsendorfer, Max IPA Goldman, Erin	64.RD		5,038	-
Veterans Affairs, Department of	Direct		IPA Gross, Colin	64.RD		4,101	-
Veterans Affairs, Department of	Direct		IPA Guoss, Conn IPA Guo, Chiao	64.RD		40,847	-
				64.RD		36,505	-
Veterans Affairs, Department of Veterans Affairs, Department of	Direct Direct		IPA Henry Moon IPA Henry Moon	64.RD		6,775	-
Veterans Affairs, Department of	Direct		IPA Hoelscher, Alice	64.RD		11,193	-
Veterans Affairs, Department of	Direct		IPA Holcombe, Sven	64.RD		(4,137)	-
Veterans Affairs, Department of	Direct		IPA Ignacio / 506-D95049	64.RD		4,792	-
Veterans Affairs, Department of	Direct		IPA Jannausch, Mary	64.RD		3,639	-
Veterans Affairs, Department of Veterans Affairs, Department of	Direct		IPA Jannausen, Mary IPA Jie Zhu	64.RD		51,659	-
Veterans Affairs, Department of	Direct		IPA Jie Zhu IPA Jie Zhu	64.RD		13,604	-
Veterans Affairs, Department of	Direct		IPA Sle Zhu IPA Klein,Debra	64.RD		(3,045)	-
Veterans Affairs, Department of	Direct		IPA-Krenz, Chris	64.RD		3,833	-
Veterans Affairs, Department of Veterans Affairs, Department of	Direct		IPA- Krenz, Chris IPA Lavieri, Mariel	64.RD		5,855 13,350	-
				64.RD		(523)	-
Veterans Affairs, Department of Veterans Affairs, Department of	Direct Direct		IPA Lee, Soo Jung IPA Lumeng, Carey	64.RD		(4,192)	
			÷ •				-
Veterans Affairs, Department of	Direct		IPA Lumeng, Carey	64.RD		9,842	-
Veterans Affairs, Department of	Direct		IPA Lumeng, Carey	64.RD		4,583	-
Veterans Affairs, Department of	Direct		IPA Martijn Muller	64.RD		42,992	-
Veterans Affairs, Department of	Direct		IPA Martin,Catherine	64.RD 64.RD		12,379	-
Veterans Affairs, Department of	Direct		IPA Martin,Catherine	64.RD 64.RD		2,504 2,330	-
Veterans Affairs, Department of	Direct		IPA Mobley, Linda				-
Veterans Affairs, Department of	Direct		IPA Muller,Martijn	64.RD		24,479	-
Veterans Affairs, Department of	Direct		IPA Newman, Sean	64.RD		14,404	-
Veterans Affairs, Department of	Direct		IPA Newman, Sean	64.RD		19,615	-
Veterans Affairs, Department of	Direct		IPA Nowak, Michael	64.RD		1,212	-
Veterans Affairs, Department of	Direct		IPA Oscherwitz, Jon	64.RD		(17,667)	-
Veterans Affairs, Department of	Direct		IPA Pasiak, Sara	64.RD		8,289	-
Veterans Affairs, Department of	Direct		IPA Pepple, Ashley	64.RD		47,869	-
Veterans Affairs, Department of	Direct		IPA Prieskorn, Diane	64.RD		7,714	-
Veterans Affairs, Department of	Direct		IPA Quinn, Martha	64.RD		7,073	-
Veterans Affairs, Department of	Direct		IPA Quinn, Martha	64.RD		13,744	-
Veterans Affairs, Department of	Direct		IPA- Robinson, Dan	64.RD		1,282	-
Veterans Affairs, Department of	Direct		IPA- Ryan, Kerry	64.RD		5,036	-
Veterans Affairs, Department of	Direct		IPA Sarosh Cyrus	64.RD		18,242	-
Veterans Affairs, Department of	Direct		IPA Scisney-Matlock, Margaret	64.RD		3,342	-
Veterans Affairs, Department of	Direct		IPA Semerad, Jay	64.RD		1,428	-
Veterans Affairs, Department of	Direct		IPA Shah, Nidhi	64.RD		(5,779)	-
Veterans Affairs, Department of	Direct		IPA Shah, Nidhi	64.RD		19,958	-
Veterans Affairs, Department of	Direct		IPA Shih, Albert	64.RD		(7,708)	-
Veterans Affairs, Department of	Direct		IPA Shih, Albert	64.RD		25,560	-
Veterans Affairs, Department of	Direct		IPA Swalwell, Kathleen	64.RD		31,845	-
Veterans Affairs, Department of	Direct		IPA Toma, Miriam	64.RD		(15,818)	-
Veterans Affairs, Department of	Direct		IPA Turnwald, Molly	64.RD		3,205	-
Veterans Affairs, Department of	Direct		IPA Wang, Jintao	64.RD		(7,591)	-
Veterans Affairs, Department of	Direct		IPA West, Brady	64.RD		3,141	-
Veterans Affairs, Department of	Direct		IPA West, Brady	64.RD		5,423	-
Veterans Affairs, Department of	Direct		IPA Weston, Michele	64.RD		24,656	-
Veterans Affairs, Department of	Direct		IPA Xu, Jintao	64.RD		11,206	-
Veterans Affairs, Department of	Direct		IPA Yeagley, Emily	64.RD		8,354	-
Veterans Affairs, Department of	Direct		IPA Yon, Sarah	64.RD		7,413	-
Veterans Affairs, Department of	Direct		IPA Yu, Fen	64.RD		39,837	-
Veterans Affairs, Department of	Direct		IPA Yu, Xianshi	64.RD		43,069	-
Veterans Affairs, Department of	Direct		IPA Zhang, Lan	64.RD		13,904	-
Veterans Affairs, Department of	Direct		IPA Zhang, Peng	64.RD		(2,824)	-
Veterans Affairs, Department of	Direct		IPA Zhang, Peng	64.RD		20,085	-
Veterans Affairs, Department of	Direct		IPA Zhao, Lili	64.RD		7,974	-
Veterans Affairs, Department of	Direct		IPA Zhao, Lili	64.RD		6,664	-
Veterans Affairs, Department of	Direct		IPA Zhu, Ji	64.RD		26,826	-
Veterans Affairs, Department of	Direct		IPA Zhu, Ji	64.RD		26,119	-
Veterans Affairs, Department of	Direct		IPA, Ganguly, Anutosh	64.RD		9,630	-
Veterans Affairs, Department of	Direct		IPA-Althuis, Katie	64.RD		64,267	-
Veterans Affairs, Department of	Direct		IPA-Althuis,Katie	64.RD		12,148	-
Veterans Affairs, Department of	Direct		IPA-Ameling, Jessica	64.RD		28,043	-
Veterans Affairs, Department of	Direct		IPA-Andrew, Ryan	64.RD		24,283	-
Veterans Affairs, Department of	Direct		IPA-Ashe,Doctor	64.RD		24,743	-
Veterans Affairs, Department of	Direct		IPA-Bell, Alexander	64.RD		3,294	-
Veterans Affairs, Department of	Direct		IPA-Carver, Kyle	64.RD		74,727	

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Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	to Subrecipient
Veterans Affairs, Department of	Direct Direct		IPA-Chan, Chiao-Li	64.RD 64.RD		8,929 19,894	-
Veterans Affairs, Department of			IPA-Clearwood, Alyssa	64.RD			-
veterans Affairs, Department of	Direct		IPA-Corbin, Sayre			5,456	-
veterans Affairs, Department of	Direct		IPA-DeVries, Raymond	64.RD		9,101	-
veterans Affairs, Department of	Direct		IPA-Ehrlinger, Rachel	64.RD		36,803	-
veterans Affairs, Department of	Direct		IPA-Engle, Jason	64.RD		21,246	-
eterans Affairs, Department of	Direct		IPA-Ganguly, Anutosh	64.RD		77,707	-
/eterans Affairs, Department of	Direct		IPA-Girard, Rachel	64.RD		5,850	-
/eterans Affairs, Department of	Direct		IPA-Goldman,Erin	64.RD		62,109	-
Veterans Affairs, Department of	Direct		IPA-Guo, Chiao	64.RD		(25,568)	-
Veterans Affairs, Department of	Direct		IPA-Guo, Chiao	64.RD		16,446	-
Veterans Affairs, Department of	Direct		IPA-Ha, Jinkyung	64.RD		16,218	-
Veterans Affairs, Department of	Direct		IPA-Ha, Jinkyung	64.RD		5,517	-
Veterans Affairs, Department of	Direct		IPA-Hoelscher, Alise	64.RD		59,186	-
Veterans Affairs, Department of	Direct		IPA-Holcombe, Sven	64.RD		18,767	-
/eterans Affairs, Department of	Direct		IPA-Jannausch,Mary	64.RD		37,656	-
Veterans Affairs, Department of	Direct		IPA-Kabara,Lisa	64.RD		56,377	-
Veterans Affairs, Department of	Direct		IPA-Karwowski, Danielle	64.RD		4,499	-
Veterans Affairs, Department of	Direct		IPA-Katrina Clines	64.RD		39,811	-
Veterans Affairs, Department of	Direct		IPA-Katrina Clines	64.RD		13,119	-
Veterans Affairs, Department of	Direct		IPA-Kim, Hyungjin	64.RD		19,018	_
Veterans Affairs, Department of	Direct		IPA-Klein, Debra	64.RD		10,059	_
Veterans Affairs, Department of	Direct		IPA-Krenz, Christopher Dean	64.RD		1,720	-
Veterans Affairs, Department of	Direct		IPA-Kreiz, Christopher Dean IPA-Lahiri, Shayanki	64.RD		26,998	-
				64.RD			-
Veterans Affairs, Department of	Direct Direct		IPA-Macleod, Colin	64.RD		12,986 23,726	-
/eterans Affairs, Department of			IPA-McCloskey, Lisa				-
Veterans Affairs, Department of	Direct		IPA-McCloskey, Lisa	64.RD		58,945	-
Veterans Affairs, Department of	Direct		IPA-McRobert, Erin	64.RD		60,917	-
Veterans Affairs, Department of	Direct		IPA-McRobert, Erin	64.RD		10,768	-
Veterans Affairs, Department of	Direct		IPA-McRobert, Erin	64.RD		5,230	-
/eterans Affairs, Department of	Direct		IPA-McRobert, Erin K	64.RD		5,344	-
/eterans Affairs, Department of	Direct		IPA-McRobert, Erin K	64.RD		1,449	-
/eterans Affairs, Department of	Direct		IPA-Nowak, Michael	64.RD		1,299	-
Veterans Affairs, Department of	Direct		IPA-Oscherwitz, Jon	64.RD		11,775	-
Veterans Affairs, Department of	Direct		IPA-Padgett, Michael	64.RD		36,867	-
Veterans Affairs, Department of	Direct		IPA-Ryan, Kerry Ann	64.RD		7,538	-
Veterans Affairs, Department of	Direct		IPA-Sanborn, Cathy	64.RD		2,808	-
Veterans Affairs, Department of	Direct		IPA-Semerad, Jay	64.RD		842	-
Veterans Affairs, Department of	Direct		IPA-Shaikh, Navid	64.RD		71,564	-
Veterans Affairs, Department of	Direct		IPA-Stoll, Shelley	64.RD		9,141	-
Veterans Affairs, Department of	Direct		IPA-Teitz-Tennenbaum, Seagal	64.RD		89,935	-
Veterans Affairs, Department of	Direct		IPA-Thomas, Jennifer	64.RD		6,283	_
Veterans Affairs, Department of	Direct		IPA-Thomas, Jennifer	64.RD		867	_
Veterans Affairs, Department of	Direct		IPA-Toma, Mariam	64.RD		39,275	
	Direct		IPA-Toma, Mariam	64.RD		3,158	-
Veterans Affairs, Department of							-
Veterans Affairs, Department of	Direct		IPA-Trim,Elise	64.RD		48	-
Veterans Affairs, Department of	Direct		IPA-Venugopal, Jessica	64.RD		8,582	-
/eterans Affairs, Department of	Direct		IPA-Wells, Joanna	64.RD		44,767	-
Veterans Affairs, Department of	Direct		IPA-Wilson, Ian	64.RD		3,563	-
Veterans Affairs, Department of	Direct		IPA-Wilson, Ian Matthew	64.RD		8,084	-
/eterans Affairs, Department of	Direct		IPA-Xu, Jintao	64.RD		37,494	-
/eterans Affairs, Department of	Direct		IPA-Xu, Jintao	64.RD		21,811	-
/eterans Affairs, Department of	Direct		IPA-Yeagley, Emily	64.RD		13,335	-
/eterans Affairs, Department of	Direct		IPA-Yeagley, Emily	64.RD		17,482	-
/eterans Affairs, Department of	Direct		IPA-Yessayan,Lenar	64.RD		44,020	-
eterans Affairs, Department of	Direct		Order No. 36C25021P0543	64.RD		8,380	-
eterans Affairs, Department of	Direct		VA - Zikmund-Fisher, Brian	64.RD		4,594	-
eterans Affairs, Department of	Direct		VA IPA - Kutyma, Evelina	64.RD		(1,807)	-
eterans Affairs, Department of	Direct		VA IPA Debra Klein	64.RD		43,982	-
Veterans Affairs, Department of	Direct		VA IPA Dolan,David	64.RD		25,073	-
eterans Affairs, Department of	Direct		VA IPA Henderson, James 2021	64.RD		10,910	_
eterans Affairs, Department of	Direct		VA IPA Kanicki, Ariane	64.RD		2,076	-
				64.RD		49,520	-
eterans Affairs, Department of	Direct		VA IPA Martin, Catherine				-
veterans Affairs, Department of	Direct		VA IPA McRobert,Erin	64.RD		7,695	-
eterans Affairs, Department of	Direct		VA IPA Turnwald, Molly	64.RD		21,432	-
eterans Affairs, Department of	Direct		VA IPA Wells, Joanna	64.RD		8,507	-
eterans Affairs, Department of	Direct		VA IPA Zikmund-Fisher, Brian	64.RD		4,523	-
eterans Affairs, Department of	Direct		VA IPA-Henderson, James	64.RD		2,958	-
eterans Affairs, Department of	Direct		VA/IPA Bauer, David	64.RD		5,396	-
eterans Affairs, Department of	Direct		VA/IPA Dolan,David	64.RD		1,355	-
/eterans Affairs, Department of	Direct		VA/IPA Martin,Catherine	64.RD		626	-
Veterans Affairs, Department of	Direct		VA250-16-D-0138	64.RD		9,728	

Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Assistance Listin Number	Assistance Listing Program Title	Federal I	Pa Expenditures to	assed-Thr
Veterans Affairs, Department of	Direct	1 ass-1 in ough Granton	VA250-17-C-0107 PO# D70010	64.RD	Assistance Listing Program Pite	reuerari	(9,368)	Subrecip
eterans Affairs, Department of	Direct		VA251-15-D-0057	64.RD			(18,789)	
terans Affairs, Department of	Direct		VA251-15-D-0057	64.RD			(1,674)	
erans Affairs, Department of	Direct		VA251-15-D-0057 VA251-15-D-0057	64.RD			2,470	
				64.RD				
erans Affairs, Department of	Direct		VA251-15-D-0057				23,021	
erans Affairs, Department of	Direct		VA-IPA Prieskorn, Diane	64.RD			9,695	
erans Affairs, Department of	Direct		VA-IPA-Kim, Hyungjin 2020	64.RD			74,835	
			Total Veterans Affairs, Department of			\$	3,951,233 \$	
nvironmental Protection Agency	Direct		84004201	66.034	Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities Relating to the Clean Air Act	\$	23,850 \$	
vironmental Protection Agency		e of, Environment, Great Lakes, and Energy, Department of	AODGG2020P2	66.034	Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities Relating to the Clean Air Act		14,280	
in children in the control of the genery	r uss r mough ishemgan, staa	or, Lindonion, Stell Luces, and Lindoy, Department of	112002202012	00.051	Internships, Training and Workshops for the Office of Air and	\$	38,130 \$	
vironmental Protection Agency	Direct		83594901	66.037	Radiation	\$	4,616 \$	
vironmental Protection Agency		e of, Environment, Great Lakes, and Energy, Department of	2017-0019	66.460		\$	37,625 \$	
		e of, Environment, Great Lakes, and Energy, Department of			Nonpoint Source Implementation Grants	\$	329,482 \$	
rironmental Protection Agency	0 0 ,		2020-2509	66.469	Great Lakes Program	2		
ironmental Protection Agency	Pass-Through Ohio State Univ	versity, The	60065547	66.469	Great Lakes Program	\$	(289) 329,193 \$	
rironmental Protection Agency	Pass-Through Northeastern U	niversity	505112-78050	66.509	Science To Achieve Results (STAR) Research Program	\$	35,809 \$	
ironmental Protection Agency	Direct		SU-84015301	66.516	P3 Award: National Student Design Competition for Sustainal		5,636 \$	
	Pass-Through Health Effects	Institute (HEI)	4966-RFA18-1/19-2	66.RD	1.5 Award, reational Student Design Competition for Sustainat	\$	144,174 \$	
ronmental Protection Agency						φ		
ronmental Protection Agency ronmental Protection Agency	Pass-Through Tetra Tech MP Pass-Through Tetra Tech MP		EP-C-17-046 Subcontract Agreement	66.RD 66.RD			92,519 60,014	
Tolinental Protection Agency	rass-rinough renu reen wir	5	Subcontract Agreenent	00.102		\$	296,707 \$	
			Total Environmental Protection Agency			\$	747,716 \$	
	D. (		212100103/0020	77.000	U.S. Nuclear Regulatory Commission Scholarship and	\$	150,052 \$	
lear Regulatory Commission	Direct		31310018M0030	77.008	Fellowship Program U.S. Nuclear Regulatory Commission Scholarship and	3		
lear Regulatory Commission	Direct		31310019M0005	77.008	Fellowship Program U.S. Nuclear Regulatory Commission Scholarship and		164,318	
lear Regulatory Commission	Direct		31310019M0023	77.008	Fellowship Program U.S. Nuclear Regulatory Commission Scholarship and		60,000	
clear Regulatory Commission	Direct		31310021M0001	77.008	Fellowship Program U.S. Nuclear Regulatory Commission Scholarship and		33,899	
clear Regulatory Commission	Direct		NRC-HQ-84-15-G-0039	77.008	Fellowship Program	\$	(77) 408,192 \$	
clear Regulatory Commission	Direct		31310020C0009	77.RD		\$	195,519 \$	
clear Regulatory Commission	Direct		31310020D0007	77.RD		*	81	
clear Regulatory Commission	Direct		NRC-HQ-60-15-C-0012	77.RD			401,630	4
clear Regulatory Commission	Pass-Through UT-Battelle, LI		4000182841	77.RD			88,802	
tear Regulatory Commission	rass-fillough Of-Battelle, Li	le le	4000182841	//.KD		\$	686,032 \$	4
			Total Nuclear Regulatory Commission			\$	1,094,224 \$	4
rgy, Department of	Direct		DE FG02 05 ER15686	81.049	Office of Science Financial Assistance Program	\$	122,165 \$	
gy, Department of	Direct		DE-FG02-08ER15931	81.049	Office of Science Financial Assistance Program		298,950	
gy, Department of	Direct		DE-FG02-08ER46525	81.049	Office of Science Financial Assistance Program		109,503	4
gy, Department of	Direct		DE-NA0002956	81.049	Office of Science Financial Assistance Program		(4,140)	
gy, Department of	Direct		DE-SC0001939	81.049	Office of Science Financial Assistance Program		14,126	
gy, Department of	Direct		DE-SC0004871	81.049	Office of Science Financial Assistance Program		168,088	
				81.049			325,474	
gy, Department of	Direct		DE-SC0004888		Office of Science Financial Assistance Program			
gy, Department of	Direct		DE-SC0006587	81.049	Office of Science Financial Assistance Program		165,694	
gy, Department of	Direct		DE-SC0006628	81.049	Office of Science Financial Assistance Program		209,131	
gy, Department of	Direct		DE-SC0007859	81.049	Office of Science Financial Assistance Program		2,176,312	
gy, Department of	Direct		DE-SC0008637	81.049	Office of Science Financial Assistance Program		1,794,647	
gy, Department of	Direct		DE-SC0010381	81.049	Office of Science Financial Assistance Program		(42)	
gy, Department of	Direct		DE-SC0011078	81.049	Office of Science Financial Assistance Program		(3,004)	
y, Department of	Direct		DE-SC0012479	81.049	Office of Science Financial Assistance Program		19,061	
gy, Department of	Direct		DE-SC0012482	81.049	Office of Science Financial Assistance Program		68,620	
y, Department of	Direct		DE-SC0013393	81.049	Office of Science Financial Assistance Program		220,369	
gy, Department of	Direct		DE-SC0013562	81.049	Office of Science Financial Assistance Program		205,514	
gy, Department of	Direct		DE-SC0015394	81.049	Office of Science Financial Assistance Program		(2,331)	
			DE-SC0015394 DE-SC0016206		6		154,838	
gy, Department of	Direct			81.049	Office of Science Financial Assistance Program			
gy, Department of	Direct		DE-SC0016384	81.049	Office of Science Financial Assistance Program		221,441	
gy, Department of	Direct		DE-SC0016489	81.049	Office of Science Financial Assistance Program		16,723	
	Direct		DE-SC0016804	81.049	Office of Science Financial Assistance Program		232,547	
			DE 0.0001 (000	01.040	Office of Science Financial Assistance Program		285,324	1
rgy, Department of	Direct		DE-SC0016808	81.049	Office of Science I maneial Assistance I logram		205,524	
rgy, Department of	Direct Direct		DE-SC0016808 DE-SC0017380	81.049 81.049	Office of Science Financial Assistance Program		90,589	
rgy, Department of rgy, Department of rgy, Department of rgy, Department of								,

Cluster Title/Federal Grantor/Program         Type           Energy, Department of         Direct	Pass-Through Grantor         Award Identifier           DE-SC0018058         DE-SC0018059           DE-SC0018173         DE-SC0018941	Number 81.049 81.049 81.049	Assistance Listing Program Title Office of Science Financial Assistance Program Office of Science Financial Assistance Program	Federal Expenditu 16,7 8,6	75	brecipients -
Energy, Department of     Direct	DE-SC0018059 DE-SC0018173	81.049	Office of Science Financial Assistance Program			-
Energy, Department of     Direct       Energy, Department of     Direct       Energy, Department of     Direct       Energy, Department of     Direct	DE-SC0018173			8.6		
Energy, Department of Direct Energy, Department of Direct Energy, Department of Direct		81.049				-
Energy, Department of Direct Energy, Department of Direct	DE-SC0018941		Office of Science Financial Assistance Program	86,8		-
Energy, Department of Direct	DE 000010084	81.049	Office of Science Financial Assistance Program	187,3		-
	DE-SC0019084	81.049	Office of Science Financial Assistance Program	203,8		-
Energy, Department of Direct	DE-SC0019118 DE-SC0019172	81.049 81.049	Office of Science Financial Assistance Program Office of Science Financial Assistance Program	132,8 65,1		-
Energy, Department of Direct Energy, Department of Direct	DE-SC0019172 DE-SC0019184	81.049	Office of Science Financial Assistance Program	222,6		-
Energy, Department of Direct	DE-SC0019184 DE-SC0019184	81.049	Office of Science Financial Assistance Program	607,9		-
Energy, Department of Direct	DE-SC0019225	81.049	Office of Science Financial Assistance Program	105,9		
Energy, Department of Direct	DE-SC0019225 DE-SC0019255	81.049	Office of Science Financial Assistance Program	65,3		_
Energy, Department of Direct	DE-SC0019278	81.049	Office of Science Financial Assistance Program	217,1		135,933
Energy, Department of Direct	DE-SC0020070	81.049	Office of Science Financial Assistance Program	167,3		-
Energy, Department of Direct	DE-SC0020174	81.049	Office of Science Financial Assistance Program	424,1		208,217
Energy, Department of Direct	DE-SC0020184	81.049	Office of Science Financial Assistance Program	186,9		-
Energy, Department of Direct	DE-SC0020191	81.049	Office of Science Financial Assistance Program	153,8		-
Energy, Department of Direct	DE-SC0020226	81.049	Office of Science Financial Assistance Program	364,3	17	-
Energy, Department of Direct	DE-SC0020232	81.049	Office of Science Financial Assistance Program	1,060,6	57	891,428
Energy, Department of Direct	DE-SC0020236	81.049	Office of Science Financial Assistance Program	100,3	62	_
Energy, Department of Direct	DE-SC0020237	81.049	Office of Science Financial Assistance Program	89,3	44	-
Energy, Department of Direct	DE-SC0020239	81.049	Office of Science Financial Assistance Program	176,3	69	-
Energy, Department of Direct	DE-SC0020364	81.049	Office of Science Financial Assistance Program	117,1	05	-
Energy, Department of Direct	DE-SC0020477	81.049	Office of Science Financial Assistance Program	286,7		-
Energy, Department of Direct	DE-SC0021008	81.049	Office of Science Financial Assistance Program	16,2	83	-
Energy, Department of Direct	DE-SC0021130	81.049	Office of Science Financial Assistance Program	101,7	62	-
Energy, Department of Direct	DE-SC0021138	81.049	Office of Science Financial Assistance Program	125,5	24	-
Energy, Department of Direct	DE-SC0021171	81.049	Office of Science Financial Assistance Program	155,3	61	-
Energy, Department of Direct	DE-SC0021236	81.049	Office of Science Financial Assistance Program	70,8	84	-
Energy, Department of Direct	DE-SC0021240	81.049	Office of Science Financial Assistance Program	114,8		-
Energy, Department of Direct	DE-SC0021288	81.049	Office of Science Financial Assistance Program	89,5		-
Energy, Department of Direct	DE-SC0021355	81.049	Office of Science Financial Assistance Program	72,9		-
Energy, Department of Direct	DE-SC0021397	81.049	Office of Science Financial Assistance Program	76,7		-
Energy, Department of Direct	DE-SC0021398	81.049	Office of Science Financial Assistance Program	185,1		-
Energy, Department of Pass-Through Emory University	A053731	81.049	Office of Science Financial Assistance Program	(18,9		-
Energy, Department of Pass-Through Emory University	A216516	81.049	Office of Science Financial Assistance Program	264,3		-
Energy, Department of Pass-Through Illinois Rocstar LLC	Research Agreement	81.049	Office of Science Financial Assistance Program	6,5		-
Energy, Department of Pass-Through Kent State University	400005-UM	81.049	Office of Science Financial Assistance Program	111,1		-
Energy, Department of Pass-Through Kitware, Inc	K002192-00-S01	81.049	Office of Science Financial Assistance Program	18,7		-
Energy, Department of Pass-Through Northwestern University	60054427 MICH	81.049	Office of Science Financial Assistance Program	139,7		-
Energy, Department of Pass-Through Northwestern University	SP0027267-PROJ0007138	81.049	Office of Science Financial Assistance Program	217,8		-
Energy, Department of Pass-Through Ohio State University, The	60042071	81.049	Office of Science Financial Assistance Program	80,6		-
Energy, Department of Pass-Through Princeton University	SUB0000133	81.049	Office of Science Financial Assistance Program	1,1		-
Energy, Department of Pass-Through Qrona Technologies LLC	Roundtable Research Agreemen		Office of Science Financial Assistance Program	32,1		-
Energy, Department of Pass-Through Radiation Monitoring Device	s, Inc. C21-15 62250323-151362	81.049	Office of Science Financial Assistance Program	(2,8		-
Energy, Department of Pass-Through Stanford University		81.049	Office of Science Financial Assistance Program	381,5		-
Energy, Department of Pass-Through State University of New Yor		81.049	Office of Science Financial Assistance Program	(2,0		-
Energy, Department of Pass-Through State University of New Yor Energy Department of Pass Through The University of Texas at A		81.049 81.049	Office of Science Financial Assistance Program	187,3		-
Energy, Department of Pass-Through The University of Texas at A Energy, Department of Pass-Through University of South Carolina	21-4258	81.049 81.049	Office of Science Financial Assistance Program Office of Science Financial Assistance Program	180,7 141,5		-
		81.049	Office of Science Financial Assistance Program	141,5		-
Energy, Department of Pass-Through Washington University in St.	Louis WU-20-311	01.049	Grace of Science Financial Assistance Flogram	\$ 15,078,2		1,434,578
Energy, Department of Direct	DE-EE0007979	81.086	Conservation Research and Development	\$ 100,8		
Energy, Department of Direct	DE-EE0008362	81.086	Conservation Research and Development	3 100,8		_
Energy, Department of Direct	DE-EE0008302 DE-EE0008456	81.086	Conservation Research and Development	396,8		263,747
Energy, Department of Direct	DE-EE0008430 DE-EE0008723	81.086	Conservation Research and Development	451,3		13,552
Energy, Department of Direct	DE-EE0008/23	81.086	Conservation Research and Development	252,5		
Energy, Department of Direct	DE-EE0008855	81.086	Conservation Research and Development	408,5		_
Energy, Department of Pass-Through OLEDWorks	DE-EE00000055	81.086	Conservation Research and Development	108,0		-
Energy, Department of Pass-Through The American Center for Mo		81.086	Conservation Research and Development	147,5		-
Energy, Department of Pass-Through The American Center for Michael Cen		81.086	Conservation Research and Development	62,1		-
Energy, Department of Pass-Through University of Virginia	GQ10067.157734	81.086	Conservation Research and Development	66,1		-
			1	\$ 2,325,9		277,299
Energy, Department of Direct	DE-EE0007549	81.087	Renewable Energy Research and Development		84 \$	
Energy, Department of Direct	DE-EE0008086	81.087	Renewable Energy Research and Development	336,9		300,032
Energy, Department of Direct	DE-EE0008093	81.087	Renewable Energy Research and Development	213,5		6,397
Energy, Department of Direct	DE-EE0008482	81.087	Renewable Energy Research and Development	434,9		95,108
Energy, Department of Direct	DE-EE0008526	81.087	Renewable Energy Research and Development	(12,0		-
Energy, Department of Direct	DE-EE0008561	81.087	Renewable Energy Research and Development	415,3		-
Energy, Department of Direct	DE-EE0009376	81.087	Renewable Energy Research and Development	27,2		-
Energy, Department of Pass-Through AB Volvo aka Volvo Group	Agreement	81.087	Renewable Energy Research and Development	209,2		-
Energy, Department of Pass-Through American Institute of Chemie	al Engineers DE-EE0007888-08-5	81.087	Renewable Energy Research and Development	257,6	33	-
Energy, Department of Pass-Through Ford Motor Company	RQ17-144R06	81.087	Renewable Energy Research and Development	46,9		-

			Assistance Listi		<b>.</b> .		ssed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federa	Expenditures to	Subrecipients
Energy, Department of	Pass-Through General Motors Company (dba General Motors Holdings, LLC) Pass-Through University of California - Berkeley	4301057109 PBCX01-EMCJB	81.087	Renewable Energy Research and Development		165,769	-
Energy, Department of	Pass-Through University of California - Berkeley Pass-Through University of California - Irvine	2020-1297	81.087 81.087	Renewable Energy Research and Development		(550) 109,762	-
Energy, Department of	Pass-Thiough University of Camornia - If vine	2020-1297	01.007	Renewable Energy Research and Development	\$	2,262,737 \$	401,537
Energy, Department of	Direct	DE-FE0030684	81.089	Fossil Energy Research and Development	\$	132,659 \$	401,557
Energy, Department of	Direct	DE-FE0031228	81.089	Fossil Energy Research and Development	φ	276,109	
Energy, Department of	Direct	DE-FE0031773	81.089	Fossil Energy Research and Development		33,864	_
Energy, Department of	Pass-Through University of Iowa	S00701-01	81.089	Fossil Energy Research and Development		56,008	_
Energy, Department of	1 ass-1 mough on versity of lowa	500701-01	01.007	rossii Energy Research and Development	\$	498,640 \$	-
Energy, Department of	Direct	DE-NA0003869	81.112	Stewardship Science Grant Program	\$	814,417 \$	
Energy, Department of	Direct	DE-NA0003944	81.112	Stewardship Science Grant Program	Ψ	178,078	66,502
Energy, Department of	Direct	DE-NA0003954	81.112	Stewardship Science Grant Program		198,630	
Energy, Department of	Pass-Through Cornell University	83228-10967	81.112	Stewardship Science Grant Program		326,666	_
Energy, Department of	Pass-Through Texas A & M University	M1803473	81.112	Stewardship Science Grant Program		453,999	_
Energy, Department of	Pass-Through University of Rochester	417539G/ UR FAO GR510909	81.112	Stewardship Science Grant Program		394,228	_
Energy, Department of	1 ass-1 mough on versity of Rochester	4115576/ 01/11/0 01/01/07	01.112	Stewardship Selence Grant Program	\$	2,366,018 \$	66,502
Energy, Department of	Direct	DE-NA0002534	81.113	Defense Nuclear Nonproliferation Research	\$	867,663 \$	475,684
Energy, Department of	Direct	DE-NA0002534	81.113	Defense Nuclear Nonproliferation Research	φ	3,504,865	2,312,494
Energy, Department of	Pass-Through Georgia Institute of Technology	AWD-000372-G8	81.113	Defense Nuclear Nonproliferation Research		133,462	2,512,494
Energy, Department of	Pass-Through North Carolina State University	2014-0501-01	81.113	Defense Nuclear Nonproliferation Research		35,309	-
Energy, Department of	rass-rinough North Carolina State Oniversity	2014-0501-01	01.115	Bereise Nuclear Nonpromeration Research	\$	4,541,299 \$	2,788,178
Energy, Department of	Direct	DE-NE0000132	81.121	Nuclear Energy Research, Development and Demonstration	\$	180,882 \$	2,700,170
Energy, Department of	Direct	DE-NE0000132 DE-NE0008519	81.121 81.121	Nuclear Energy Research, Development and Demonstration Nuclear Energy Research, Development and Demonstration	φ	5,034	-
Energy, Department of	Direct	DE-NE0008519 DE-NE0008520	81.121	Nuclear Energy Research, Development and Demonstration Nuclear Energy Research, Development and Demonstration		4,662	-
	Direct	DE-NE0008520 DE-NE0008697	81.121			116,483	29,125
Energy, Department of Energy, Department of	Direct	DE-NE0008897 DE-NE0008781	81.121 81.121	Nuclear Energy Research, Development and Demonstration Nuclear Energy Research, Development and Demonstration		188,799	29,125
Energy, Department of	Direct	DE-NE0008781 DE-NE0008782	81.121	Nuclear Energy Research, Development and Demonstration		398,369	140,873
Energy, Department of	Direct	DE-NE0008782	81.121	Nuclear Energy Research, Development and Demonstration		208,620	140,875
	Direct	DE-NE0008783	81.121			92,839	-
Energy, Department of	Direct	DE-NE0008784 DE-NE0008887	81.121 81.121	Nuclear Energy Research, Development and Demonstration		120,603	-
Energy, Department of		DE-NE0008887	81.121	Nuclear Energy Research, Development and Demonstration			-
Energy, Department of Energy, Department of	Direct Direct		81.121 81.121	Nuclear Energy Research, Development and Demonstration Nuclear Energy Research, Development and Demonstration		41,571 163,341	-
		DE-NE0008908 DE-NE0008975					71 022
Energy, Department of	Direct	DE-NE0008975 DE-NE0008976	81.121	Nuclear Energy Research, Development and Demonstration Nuclear Energy Research, Development and Demonstration		114,364	71,832
Energy, Department of	Direct		81.121			6,524	-
Energy, Department of	Direct	DE-NE0008984	81.121	Nuclear Energy Research, Development and Demonstration		30,156 50,214	-
Energy, Department of	Direct	DE-NE0009021	81.121	Nuclear Energy Research, Development and Demonstration			-
Energy, Department of	Pass-Through George Washington University	18-S36	81.121	Nuclear Energy Research, Development and Demonstration		174,392	-
Energy, Department of	Pass-Through North Carolina State University	2016-1536-05	81.121	Nuclear Energy Research, Development and Demonstration		(21,844)	-
Energy, Department of	Pass-Through Oregon State University	G0188A-A	81.121	Nuclear Energy Research, Development and Demonstration		12,272	-
Energy, Department of	Pass-Through Pennsylvania State University	5724-UM-DOE-8717	81.121	Nuclear Energy Research, Development and Demonstration		182,883	-
Energy, Department of	Pass-Through Pennsylvania State University	S001258-USDOE	81.121	Nuclear Energy Research, Development and Demonstration		27,682	-
Energy, Department of	Pass-Through University of New Mexico	327121-871E	81.121	Nuclear Energy Research, Development and Demonstration		55,926	-
Energy, Department of	Pass-Through University of Oklahoma	2020-32	81.121	Nuclear Energy Research, Development and Demonstration		55,537	-
Energy, Department of	Pass-Through University of Wisconsin	000000950	81.121	Nuclear Energy Research, Development and Demonstration		8,168	-
Energy, Department of	Pass-Through University of Wisconsin	000317	81.121	Nuclear Energy Research, Development and Demonstration		13,212	-
Energy, Department of	Pass-Through University of Wisconsin	775K515	81.121	Nuclear Energy Research, Development and Demonstration		38,782	-
Energy, Department of	Pass-Through Vanderbilt University	UNIV61088	81.121	Nuclear Energy Research, Development and Demonstration		100,076	-
Energy, Department of	Pass-Through Virginia Polytechnic Institute and State University	429392-19337	81.121	Nuclear Energy Research, Development and Demonstration		39,401	-
					\$	2,408,948 \$	336,965
Energy, Department of	Pass-Through Stanford University	60545512-107908	81.124	Predictive Science Academic Alliance Program	\$	(721) \$	-
Energy, Department of	Direct	DE-AR0000653	81.135	Advanced Research Projects Agency - Energy	\$	(3,528) \$	-
Energy, Department of	Direct	DE-AR0000659	81.135	Advanced Research Projects Agency - Energy		3,745	-
Energy, Department of	Direct	DE-AR0000797	81.135	Advanced Research Projects Agency - Energy		43,453	5,465
Energy, Department of	Direct	DE-AR0001061	81.135	Advanced Research Projects Agency - Energy		749,713	430,158
Energy, Department of	Direct	DE-AR0001141	81.135	Advanced Research Projects Agency - Energy		477,490	242,171
Energy, Department of	Direct	DE-AR0001219	81.135	Advanced Research Projects Agency - Energy		366,468	-
Energy, Department of	Direct	DE-AR0001297	81.135	Advanced Research Projects Agency - Energy		165,595	-
Energy, Department of	Direct	DE-AR0001413	81.135	Advanced Research Projects Agency - Energy		42,135	-
Energy, Department of	Pass-Through Drexel University	950002	81.135	Advanced Research Projects Agency - Energy		19,203	-
Energy, Department of	Pass-Through Michigan State University	RC 110698-Umich	81.135	Advanced Research Projects Agency - Energy		162,991	-
Energy, Department of	Pass-Through Rutgers University	1353-Project ID 827418	81.135	Advanced Research Projects Agency - Energy		213,777	-
Energy, Department of	Pass-Through Southwest Research Institute	K99085KJ	81.135	Advanced Research Projects Agency - Energy		(969)	-
Energy, Department of	Pass-Through The University of Texas at Austin	UTA20-000673	81.135	Advanced Research Projects Agency - Energy		125,762	-
Energy, Department of	Pass-Through University of Delaware	46101	81.135	Advanced Research Projects Agency - Energy		131,480	-
Energy, Department of	Pass-Through Yale University	GR106208(CON-80001763)	81.135	Advanced Research Projects Agency - Energy		119,474	-
					\$	2,616,789 \$	677,794
Energy, Department of	Pass-Through Achates Power Inc.	Subaward Agreement	81.RD		\$	81,306 \$	-
Energy, Department of	Pass-Through Alliance for Sustainable Energy, LLC	SUB-2020-10235	81.RD			5,446	-
Energy, Department of	Pass-Through Argonne National Laboratory	0F-60102	81.RD			119,947	-
Energy, Department of	Pass-Through Argonne National Laboratory	1F-60376	81.RD			19,631	-
	Deer Threed, America Nictional Laboratory	7F-30052	81.RD			24,945	-
Energy, Department of	Pass-Through Argonne National Laboratory	/1-30032	01.KD				

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InergiPart-Tangk hatter Ling Mane, Li CH132H232H233H233ProgroParter MarkPart-Tangk hatter Ling Mane, Li CH343H354H354H354H235Parter MarkPart Tangk hatter Ling Mane, Li CH354H354H354H354H235Parter MarkPart Tangk hatter Ling Mane, Li CH345H354H354H354H354H235Part Tangk hatter Ling Mane, Li CH346H354H354H354H354H354H235Part Tangk hatter Ling Mane, Li CH345H354H3554H3554H3554H3554H3554<							-
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Base of the state state of the state of the state of the state of the sta						National Resource Centers Program for Foreign Language and		
Eduction, Dopartment of Beachine, Dop						Area Studies or Foreign Language and International Studies		
Autor         National Resource Centers Program for Forcing Language and Program and Forcing Language and International Studies Program and Forc						Program and Foreign Language and Area Studies Fellowship		
Besting begins in the source (see source conservation proving language and literation 100 states)	Education, Department of	Direct		P015A140091 (NRC)	84.015		\$ (11)	s -
Base of the part of				· · · ·		National Resource Centers Program for Foreign Language and		
Base of the part of						Area Studies or Foreign Language and International Studies		
Education, Department of     Piced     P015A140005 (NRC)     84.015     Pogram of creign Language and International Studies Former Language and International Studies Former Language and Area Studies Followship     Image: Comparison of								
Here and the source Center brogram for forcing Language and Iterational Budies Program and Forcing Language and Iterational Budies Program and Forcing Language and Atras Studies Fellowship Here and Program and Forcing Language and Atras Studies Fellowship Program and Forcing Language and Iterrus Studies Program and Forcing Language	Education, Department of	Direct		P015A140095 (NRC)	84.015		(9.308)	-
Education, Department of       Direct       Point							(,,,,,,)	
Education, Department of       Direct       P015A14010       84.015       Porgram and Foreign Language and Area Studies Fellowship       (34)       1         Education, Department of       Porse       Porse       Porgram and Foreign Language and Area Studies Fellowship       1       1         Education, Department of       Porse       Porgram and Foreign Language and Area Studies Fellowship       1								
Education, Department of       Pored       P015A140100       84.015       Porgama (274)       -         Education, Department of       Direct       P015A180105       Porgama (274)       -         Education, Department of       Direct       0915A180105       Porgama (274)       -         Education, Department of       Direct       0915A180105       Porgama (274)       -       -         Education, Department of       Direct       0915A180105       Porgama (274)       -<								
Education, Department of       Direct       Narional Resource Centers Program of Foreign Language and Area Studies Fellowskiis       309,839       -         Education, Department of       Direct       Norional Resource Centers Program of Foreign Language and Area Studies Fellowskiis       309,839       -         Education, Department of       Direct       Norional Resource Centers Program of Foreign Language and Area Studies Fellowskiis       -         Education, Department of       Direct       Porgram and Foreign Language and Area Studies Fellowskiis       -         Education, Department of       Direct       Porgram and Foreign Language and Area Studies Fellowskiis       -         Education, Department of       Direct       Porgram and Foreign Language and Area Studies Fellowskiis       -         Education, Department of       Direct       Porgram and Foreign Language and Area Studies Fellowskiis       -         Education, Department of       Direct       Porgram and Foreign Language and Area Studies Fellowskiis       -         Education, Department of       Direct       Porgram and Foreign Language and Area Studies Fellowskiis       -         Education, Department of       Direct       Porgram and Foreign Language and Area Studies Fellowskiis       -         Education, Department of       Direct       Porgram and Foreign Language and Area Studies Fellowskiis       -         Education, De	Education Department of	Direct		P015A140100	84.015		(374)	
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Education, Department of Education, Depa								
Education, Department of       Direct       P015A 180105       Porgram       Porgram       309,839       -         Education, Department of       Direct       Porgram       Porgram       191,035       -         Education, Department of       Direct       Porgram and Foreign Language and International Studies       -       -       -         Education, Department of       Direct       Porgram and Foreign Language and International Studies       - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Education, Department of Direct Direct Program and Foreign Language and Area Studies Fellowship (19,035) Education, Department of Direct Dire	Education Donortmont of	Direct		D015 A 180105	84.015		200 820	
Area Studies or Foreign Language and International Studies       191,035         Feducation, Department of       Point       191,035         Breach       Program and Foreign Language and Area Studies Fellowship       191,035         Feducation, Department of       Point       Point       191,035         Breach       Point       Point       Point       Point         Breach       Point       Point       Point       Point       Point         Breach       Point       Po	Education, Department of	Dilect		F015A180105	64.015		509,659	-
Education, Department of       Pired       Portsamble       Port								
Education, Department of       Direct       P015A180106       84.015       Program       Program       191,035       -         Resource Centers Program for Foreign Language and International Studies       -								
Advantage       National Resource Centers Program for Foreign Language and International Studies         Fducation, Department of       Pired         Education, Department of       Port         Education, Department of       Port <td></td> <td></td> <td></td> <td>D015+100107</td> <td>04.015</td> <td></td> <td>101.025</td> <td></td>				D015+100107	04.015		101.025	
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Education, Department of       Direct       Po15A180107       84.015       Program and Foreign Language and Area Studies Fellowship       296,789       -         Education, Department of       Direct       Po15A180107       84.015       Program and Foreign Language and International Studies       -       -         Education, Department of       Direct       Po15A180108       Area Studies or Foreign Language and International Studies       - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
Education, Department of       Direct       P015A180107       84.015       Program       296,789       -         Attainal Resource Centers Program for Foreign Language and International Studies       -       National Resource Centers Program for Foreign Language and International Studies       -         Education, Department of       Direct       P015A180108       84.015       Program and Foreign Language and Area Studies Fellowship       -         Education, Department of       Direct       P015A180108       84.015       Program and Foreign Language and Area Studies Fellowship       -         Foreign Language and International Studies       -       -       -       -       -         Foreign Language and Area Studies Fellowship       -       -       -       -       -         Foreign Language and Area Studies Fellowship       -       -       -       -       -       -         Foreign Language and Area Studies Fellowship       -								
Education, Department of Direct Direc								
Education, Department of       Direct       P015A180108       P015A180108       Program and Foreign Language and Area Studies Fellowship       196,933       -         National Resource Centers Program for Foreign Language and International Studies       National Resource Centers Program for Foreign Language and International Studies       -         P015A180108       P015A180108       P015A180108       P015A180108	Education, Department of	Direct		P015A180107	84.015		296,789	-
Education, Department of Direct Program and Foreign Language and Area Studies Fellowship 196,933 - National Resource Centers Program for Foreign Language and International Studies - Area Studies or Foreign Language and International Studies - Program and Foreign Language and Area Studies Fellowship - Program and Foreign Language and Program and Foreign								
Education, Department of Direct PO15A180108 P015A180108 Program 196,933 - National Resource Centers Program for Foreign Language and International Studies Area Studies or Foreign Language and International Studies Program and Foreign Language and Area Studies Fellowship								
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 and Foreign Language and Area Studies Fellowship		
Area Studies or Foreign Language and International Studies Program and Foreign Language and Area Studies Fellowship	Education, Department of	Direct		P015A180108	84.015	5	196,933	-
Program and Foreign Language and Area Studies Fellowship								
Education, Department of         Direct         P015A180114         84.015         Program         236,684         20,509								
	Education, Department of	Direct		P015A180114	84.015	Program	236,684	20,509

Cluster Title/Federal Grantor/Program	Тура	Pass-Through Grantor	Award Identifia-	Assistance Listing		Federal Expenditures	Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-I brough Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	s to Subrecipients
					National Resource Centers Program for Foreign Language and Area Studies or Foreign Language and International Studies		
					Program and Foreign Language and Area Studies Fellowship		
lucation, Department of	Direct		P015B180105	84.015	Program	377,715	
ucation, Department of	Direct		P015B180105	84.015	National Resource Centers Program for Foreign Language and	5/7,715	-
					Area Studies or Foreign Language and International Studies		
	<b>D</b>		D015D100107	04.015	Program and Foreign Language and Area Studies Fellowship	202.475	
lucation, Department of	Direct		P015B180106	84.015	Program	202,475	-
					National Resource Centers Program for Foreign Language and		
					Area Studies or Foreign Language and International Studies		
					Program and Foreign Language and Area Studies Fellowship		
lucation, Department of	Direct		P015B180107	84.015	Program	345,080	-
					National Resource Centers Program for Foreign Language and		
					Area Studies or Foreign Language and International Studies		
					Program and Foreign Language and Area Studies Fellowship		
ucation, Department of	Direct		P015B180108	84.015	Program	359,188	-
					National Resource Centers Program for Foreign Language and		
					Area Studies or Foreign Language and International Studies		
					Program and Foreign Language and Area Studies Fellowship		
lucation, Department of	Direct		P015B180110	84.015	Program	371,886	_
deation, Department of	Dilet		10130180110	04.015	National Resource Centers Program for Foreign Language and	571,000	
					Area Studies or Foreign Language and International Studies		
					Program and Foreign Language and Area Studies Fellowship		
lucation, Department of	Direct		P015B180114	84.015	Program	341,039	
						\$ 3,218,970	
ducation, Department of	Direct		P022A180037	84.022	Overseas Programs - Doctoral Dissertation Research Abroad	\$ 3,412	
ducation, Department of	Direct		P022A190014	84.022	Overseas Programs - Doctoral Dissertation Research Abroad	(3,334)	) -
						\$ 78	s -
					Innovative Approaches to Literacy; Promise Neighborhoods;		
lucation, Department of	Direct		U215J180081-19	84.215	and Full-Service Community Schools	\$ 477,135	s -
lucation, Department of	Direct		R305A170489	84.305	Education Research, Development and Dissemination	\$ 213,270	
lucation, Department of	Direct		R305A200046	84.305	Education Research, Development and Dissemination	86,377	
ucation, Department of	Direct		R305A200221	84.305	Education Research, Development and Dissemination	253,730	
	Direct		R305B150012-19	84.305	· ·		
lucation, Department of					Education Research, Development and Dissemination	550,102	
lucation, Department of	Direct		R305B170015-19	84.305	Education Research, Development and Dissemination	170,320	
ducation, Department of	Direct		R305B200011	84.305	Education Research, Development and Dissemination	248,308	-
lucation, Department of	Direct		R305D210029	84.305	Education Research, Development and Dissemination	16,690	
lucation, Department of	Direct		R305H140028	84.305	Education Research, Development and Dissemination	50,505	
lucation, Department of	Pass-Through MDRC		R305N160018	84.305	Education Research, Development and Dissemination	88,270	-
lucation, Department of	Pass-Through Miami University		G02732	84.305	Education Research, Development and Dissemination	(43)	) -
lucation, Department of	Pass-Through Michigan State University		RC109914-UM	84.305	Education Research, Development and Dissemination	398,380	-
ducation, Department of	Pass-Through New York University		F7627-01	84.305	Education Research, Development and Dissemination	150,449	-
lucation, Department of	Pass-Through Northwestern University		SP0034839-PROJ0009317	84.305	Education Research, Development and Dissemination	(138)	) -
ducation, Department of	Pass-Through University of Washington		UWSC12172	84.305	Education Research, Development and Dissemination	35.095	-
	<i>c , c</i>				, <b>k</b>	\$ 2,261,315	\$ 113,015
ducation, Department of	Direct		R324A150023	84.324	Research in Special Education	\$ 99,971	
lucation, Department of	Direct		R324B180003	84.324	Research in Special Education	7,262	
lucation, Department of	Direct		R324U180001	84.324	Research in Special Education	64,283	
				84.324		29,358	
ucation, Department of	Pass-Through University of Kansas		FY2019-109	04.324	Research in Special Education		
						\$ 200,874	\$ 30,892
					Special Education - Personnel Development to Improve		
ucation, Department of	Direct		H325D160032	84.325	Services and Results for Children with Disabilities	\$ 190,720	s -
					Gaining Early Awareness and Readiness for Undergraduate		
ucation, Department of	Pass-Through Michigan, State of, Labor and I	Economic Opportunity, Department of	20-00-11	84.334	Programs	\$ 144,904	s -
					Gaining Early Awareness and Readiness for Undergraduate		
ucation, Department of	Pass-Through Michigan, State of, Labor and H	Economic Opportunity, Department of	20-00-12	84.334	Programs	38,268	-
· •		11 27 1			Gaining Early Awareness and Readiness for Undergraduate		
ucation, Department of	Pass-Through Michigan, State of, Labor and I	Economic Opportunity Department of	20-00-17	84.334	Programs	83,355	
acatoli, Deparation of	Tuss Through Miningan, State of, Eusor and T	Beolionne opportunity, Department of	20 00 17	01001		\$ 266,527	\$
ucation, Department of	Pass-Through Michigan, State of, Education,	Department of	Independent Contracted Service	84.371	Comprehensive Literacy Development	\$ 6,471	
	Pass-Through Tennessee, State of	Department of		84.372			
ucation, Department of			0000024026 / 33105-04117 / 515		Statewide Longitudinal Data Systems		
ucation, Department of	Pass-Through Flint Community Schools		MOU 2018 2010	84.RD		\$ 15,000	
ucation, Department of	Pass-Through Flint Community Schools		MOU 2018-2019	84.RD		15,000	
ucation, Department of	Pass-Through Flint Community Schools		MOU 2019-2020	84.RD		15,000	
ucation, Department of	Pass-Through Grand Rapids Public Schools		MOU	84.RD		15,000	
ucation, Department of	Pass-Through Grand Rapids Public Schools		MOU 2019-2020	84.RD		15,000	-
ucation, Department of	Pass-Through Holland Public Schools		Memorandum of Understanding	84.RD		15,000	-
ucation, Department of	Pass-Through Holland Public Schools		MOU	84.RD		15,000	
ucation, Department of	Pass-Through Jackson Public Schools		Memorandum of Understanding	84.RD		15,000	
lucation, Department of	Pass-Through Jackson Public Schools		MOU	84.RD		15,000	
lucation, Department of	Pass-Through National Institute of Statistical	Science	Research Agreement	84.RD		97,979	
acadon, Department of	1 ass-1 mough reauonal institute of Statistical	beience	Research Agreement	04.KD			
						\$ 232,979	s -

Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Assistance Listing Number	Assistance Listing Program Title	Federa	ra I Expenditures to	assed-Th Subreci
Summer and the second sec	cype case canon	Total Education, Department of		the second se	\$	6,854,370 \$	
				Immerging Enhancing and Evaluating Outcomes of			
				Improving, Enhancing, and Evaluating Outcomes of Comprehensive Heart Health Care Programs for High-Risk			
alth and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203582-00 CG	93.012	Women	\$	20,275 \$	
alth and Human Services, Department of	Direct	5 D85 HP30827-05-00	93.059	Training in General, Pediatric, and Public Health Dentistry	\$	331.682 \$	16
alth and Human Services, Department of	Direct	6 R01 TS000289-03-01	93.061	Innovations in Applied Public Health Research	\$	138,053 \$	
				Family Smoking Prevention and Tobacco Control Act			
ealth and Human Services, Department of	Direct	5 R21 DA51388 02	93.077	Regulatory Research	\$	138,111 \$	
with and Human Samiaas Donartmant of	Direct	5 U54CA229974 03	93.077	Family Smoking Prevention and Tobacco Control Act Regulatory Research		3,824,521	1,15
alth and Human Services, Department of	Direct	5 054CA229974 05	93.077	Regulatory Research	\$	3,962,632 \$	1,15
				Blood Disorder Program: Prevention, Surveillance, and	Ψ	5,762,652 \$	1,15
alth and Human Services, Department of	Direct	6 NU58DD000014-02-01	93.080	Research	\$	254,479 \$	2
				Blood Disorder Program: Prevention, Surveillance, and			
alth and Human Services, Department of	Pass-Through American Thrombosis & Hemostasis Network	ATHN2017001-1	93.080	Research		(7,375)	
- Harris Demonstrate of	Deer Thread Constitut	ATUND017001 NCE	02.090	Blood Disorder Program: Prevention, Surveillance, and		10.142	
lth and Human Services, Department of	Pass-Through Cure HHT	ATHN2017001-NCE	93.080	Research Blood Disorder Program: Prevention, Surveillance, and		10,142	
alth and Human Services, Department of	Pass-Through Hemophilia Foundation of Michigan	CDC 446 20-21	93.080	Research		6,113	
and manual Set frees, 2 spartment of	rab mough manapina roundation of monigan	000 110 20 21	951000	Blood Disorder Program: Prevention, Surveillance, and		0,115	
lth and Human Services, Department of	Pass-Through Hemophilia Foundation of Michigan	CDC-19-20-446	93.080	Research		31,500	
· •					\$	294,859 \$	
				Prevention of Disease, Disability, and Death through			
th and Human Services, Department of	Direct	5 U01 IP000974-05-05	93.083	Immunization and Control of Respiratory and Related Disease	s \$	680,522 \$	2
th and Human Services, Department of	Direct	( LI011D000074 05 02	02.092	Prevention of Disease, Disability, and Death through	_	420 440	1
in and Human Services, Department of	Direct	6 U01IP000974-05-03	93.083	Immunization and Control of Respiratory and Related Disease	\$	439,449 1,119,971 \$	3
				Prevention of Disease, Disability, and Death by Infectious		1,119,971 \$	
th and Human Services, Department of	Pass-Through Rush University Medical Center	20043001-Sub01	93.084	Diseases	\$	40,376 \$	
· •				Prevention of Disease, Disability, and Death by Infectious			
h and Human Services, Department of	Pass-Through Rush University Medical Center	15120706-Sub003	93.084	Diseases		(100,395)	
		15100504 0 1 01	02.004	Prevention of Disease, Disability, and Death by Infectious			
th and Human Services, Department of	Pass-Through Rush University Medical Center	15120706-Sub01	93.084	Diseases Prevention of Disease, Disability, and Death by Infectious		11,094	
th and Human Services, Department of	Pass-Through Rush University Medical Center	15122902-Sub01	93.084	Diseases		1	
ur and Human Services, Department of	rass-rinough Rush Oniversity ivedical Center	15122902-50001	95.004	Prevention of Disease, Disability, and Death by Infectious		1	
th and Human Services, Department of	Pass-Through Rush-Presbyterian-St. Luke's Medical Center	15122902-Sub01	93.084	Diseases		(35,308)	
× 4				Prevention of Disease, Disability, and Death by Infectious			
th and Human Services, Department of	Pass-Through Stanford University	62318994-148206	93.084	Diseases		28,448	
				Prevention of Disease, Disability, and Death by Infectious			
th and Human Services, Department of	Pass-Through Stanford University	62318994-148206	93.084	Diseases	¢	21,712	
				Healthy Marriage Promotion and Responsible Fatherhood	\$	(34,072) \$	
th and Human Services, Department of	Direct	90PR0009-02-01	93.086	Grants	\$	21,494 \$	
th and Human Services, Department of	Direct	1 UG3 FD007308-01	93.103	Food and Drug Administration Research	\$	24,175 \$	
th and Human Services, Department of	Direct	5 R01 FD005085-04	93.103	Food and Drug Administration Research		232	
h and Human Services, Department of	Direct	5 R01 FD005393-03	93.103	Food and Drug Administration Research		221,572	
th and Human Services, Department of	Pass-Through University of Maryland, Baltimore (UMB)	F303447-1	93.103	Food and Drug Administration Research		121,415	
h and Human Services, Department of	Pass-Through William Marsh Rice University	R7K996	93.103	Food and Drug Administration Research		25,000	
hand Hammer Samiana Demontrate of	Direct	1 D 40 M (222892 01 00	02 110	Meternel and Child Health Federal Concellidated Drammer	\$	392,394 \$	
h and Human Services, Department of h and Human Services, Department of	Direct Direct	1 R40MC32882-01-00 5 H17MC32706-02-00	93.110 93.110	Maternal and Child Health Federal Consolidated Programs Maternal and Child Health Federal Consolidated Programs	\$	21,862 \$ 46,956	
and Human Services, Department of	Direct	5 T20 MC07463-15-00	93.110	Maternal and Child Health Federal Consolidated Programs		14,908	
h and Human Services, Department of	Direct	5 T77 MC31740-04-00	93.110	Maternal and Child Health Federal Consolidated Programs		248,387	
h and Human Services, Department of	Direct	6H98MC30374-03-02	93.110	Maternal and Child Health Federal Consolidated Programs		210,141	
th and Human Services, Department of	Pass-Through Hemophilia Foundation of Michigan	MCHB 443 20-21	93.110	Maternal and Child Health Federal Consolidated Programs		27,982	
th and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20192404-00	93.110	Maternal and Child Health Federal Consolidated Programs		(1)	
th and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20202765-Project S	93.110	Maternal and Child Health Federal Consolidated Programs		19,644	
h and Human Services, Department of h and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of Pass-Through Michigan, State of, Health and Human Services, Department of	E20202905-Project BE E20203106 / Project N	93.110 93.110	Maternal and Child Health Federal Consolidated Programs Maternal and Child Health Federal Consolidated Programs		27,393 93,476	
h and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of Pass-Through Michigan, State of, Health and Human Services, Department of	E202051067 Project N E20212557-001 F	93.110	Maternal and Child Health Federal Consolidated Programs		198,489	
h and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20212537-0011 E20213684-00 R	93.110	Maternal and Child Health Federal Consolidated Programs		22,806	
th and Human Services, Department of	Pass-Through Wayne State University	WSU020110	93.110	Maternal and Child Health Federal Consolidated Programs		16,010	
th and Human Services, Department of	Pass-Through Wayne State University	WSU20107 A1	93.110	Maternal and Child Health Federal Consolidated Programs		37,648	
th and Human Services, Department of	Pass-Through Wayne State University	WWU19093-A1	93.110	Maternal and Child Health Federal Consolidated Programs		10,342	
			02.112		\$	996,043 \$	
	Direct	1 R01 ES032389-01	93.113 93.113	Environmental Health	\$	143,833 \$	
				Environmental Health		78,537	
th and Human Services, Department of	Direct	1 R21 ES029751-02					
Ith and Human Services, Department of Ith and Human Services, Department of Ith and Human Services, Department of Ith and Human Services, Department of	Direct Direct	15R01 ES032202-02 4 R01 ES020875-05	93.113 93.113 93.113	Environmental Health Environmental Health		164,773 (12)	

				Assistance Listi				ssed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Exp	enditures to S	Subrecipients
Health and Human Services, Department of	Direct		5 K01 ES032048-02 5 K23 ES027221-05	93.113	Environmental Health		88,713 189,168	-
Health and Human Services, Department of	Direct			93.113 93.113	Environmental Health Environmental Health		,182,190	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5 P30 ES017885-09 5 R00 ES026198-05	93.113	Environmental Health	1	224,321	-
Health and Human Services, Department of	Direct		5 R01 ES022616-05	93.113	Environmental Health		70,535	1,000
Health and Human Services, Department of	Direct		5 R01 ES022010-05	93.113	Environmental Health		(1,951)	1,000
Health and Human Services, Department of	Direct		5 R01 ES026578-05	93.113	Environmental Health		193,281	_
Health and Human Services, Department of	Direct		5 R01 ES026603-05	93.113	Environmental Health		481,890	370,500
Health and Human Services, Department of	Direct		5 R01 ES026964-05	93.113	Environmental Health		441,453	-
Health and Human Services, Department of	Direct		5 R01 ES028694-04	93.113	Environmental Health		655,875	116,833
Health and Human Services, Department of	Direct		5 R01 ES028802-03	93.113	Environmental Health		526,380	· -
Health and Human Services, Department of	Direct		5 R01 ES030049-02	93.113	Environmental Health		846,688	-
Health and Human Services, Department of	Direct		5 R01 ES031591-02	93.113	Environmental Health		36,899	-
Health and Human Services, Department of	Direct		5 R01 ES032203-02	93.113	Environmental Health		127,174	-
Health and Human Services, Department of	Direct		5 R01 ES032330-02	93.113	Environmental Health		321,761	17,636
Health and Human Services, Department of	Direct		5 R01ES030374-02	93.113	Environmental Health		456,380	397,744
Health and Human Services, Department of	Direct		5 R01ES032255-02	93.113	Environmental Health		304,939	-
Health and Human Services, Department of	Direct		5 R21ES030791 02	93.113	Environmental Health		100,437	-
Health and Human Services, Department of	Direct		5 R21ES032305-02	93.113	Environmental Health		121,386	
Health and Human Services, Department of	Direct		5 R24 ES028502-05	93.113	Environmental Health		356,191	99,337
Health and Human Services, Department of	Direct		5 R25 ES031549-06	93.113	Environmental Health		125,026	-
Health and Human Services, Department of	Direct		5 R35 ES031686-02	93.113	Environmental Health		730,603	-
Health and Human Services, Department of	Direct		5 U01 ES026697-04	93.113 93.113	Environmental Health		560,910	-
Health and Human Services, Department of	Direct Direct		7 R01 ES025434-06		Environmental Health Environmental Health		(7,837)	-
Health and Human Services, Department of Health and Human Services, Department of			T32 ES007062	93.113 93.113	Environmental Health		37,152 460,227	-
Health and Human Services, Department of	Direct Pass-Through Boston Universi	tr.	T32 ES007062 4500003574	93.113	Environmental Health		40,148	-
Health and Human Services, Department of	Pass-Through Bowling Green S		10009736-UM05	93.113	Environmental Health		5,471	-
Health and Human Services, Department of	Pass-Through Case Western R		RES512141	93.113	Environmental Health		(2,298)	-
Health and Human Services, Department of	Pass-Through Case Western R		RES512141 RES514538	93.113	Environmental Health		13,231	
Health and Human Services, Department of	Pass-Through Colorado State		G-18939-1	93.113	Environmental Health		(1,411)	_
Health and Human Services, Department of	Pass-Through Columbia Unive	5	1(GG013747-01)POG13883	93.113	Environmental Health		87,328	_
Health and Human Services, Department of	Pass-Through Columbia Unive		1(GG014276-01)/POG13888	93.113	Environmental Health		36,751	-
Health and Human Services, Department of	Pass-Through Columbia Unive		4(GG013015)	93.113	Environmental Health		56,244	-
Health and Human Services, Department of	Pass-Through Johns Hopkins U		2002950119	93.113	Environmental Health		(285)	-
Health and Human Services, Department of	Pass-Through Johns Hopkins U		R01ES025531	93.113	Environmental Health		48,832	-
Health and Human Services, Department of	Pass-Through Northeastern Ur		500610-78050	93.113	Environmental Health		25,618	-
Health and Human Services, Department of	Pass-Through University of Ca	alifornia - Davis	A18-0173-S004	93.113	Environmental Health		3,621	-
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Health and Human Services, Department of	Direct		1 F30 DE029359-01	93.121	Oral Diseases and Disorders Research	\$	113,464 \$	-
Health and Human Services, Department of	Direct		1 F30 DE029667-01	93.121	Oral Diseases and Disorders Research		21,560	-
Health and Human Services, Department of	Direct		1 F31 DE030697-01	93.121	Oral Diseases and Disorders Research		4,306	-
Health and Human Services, Department of	Direct		1 R01 DE029181-01-A1	93.121	Oral Diseases and Disorders Research		103,153	-
Health and Human Services, Department of	Direct		1 R01 DE030630 01	93.121	Oral Diseases and Disorders Research		19,899	-
Health and Human Services, Department of	Direct		1 R01 E029465 01A1	93.121	Oral Diseases and Disorders Research		70,395	-
Health and Human Services, Department of	Direct		1 R21 DE030213 01	93.121	Oral Diseases and Disorders Research Oral Diseases and Disorders Research		25,554	-
Health and Human Services, Department of	Direct		5 F30 DE027605-04	93.121 93.121			137,634	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5 F30 DE028455-02 5 F30 DE028465-03	93.121	Oral Diseases and Disorders Research Oral Diseases and Disorders Research		77,937 72,485	-
Health and Human Services, Department of	Direct		5 F30 DE029097-03	93.121	Oral Diseases and Disorders Research		98,498	-
Health and Human Services, Department of	Direct		5 F30-DE029097-05	93.121	Oral Diseases and Disorders Research		31,536	
Health and Human Services, Department of	Direct		5 F31 DE028740-03	93.121	Oral Diseases and Disorders Research		36,920	-
Health and Human Services, Department of	Direct		5 F31 DE029992-02	93.121	Oral Diseases and Disorder's Research		38,386	_
Health and Human Services, Department of	Direct		5 F31 DE030000-02	93.121	Oral Diseases and Disorder's Research		46,397	_
Health and Human Services, Department of	Direct		5 K12DE027826-04	93.121	Oral Diseases and Disorders Research		120,800	-
Health and Human Services, Department of	Direct		5 K99DE029756 02	93.121	Oral Diseases and Disorders Research		103,446	-
Health and Human Services, Department of	Direct		5 R00 DE024173-05	93.121	Oral Diseases and Disorders Research		(456)	-
Health and Human Services, Department of	Direct		5 R01 DE015846-15	93.121	Oral Diseases and Disorders Research		101,431	-
Health and Human Services, Department of	Direct		5 R01 DE020843-10	93.121	Oral Diseases and Disorders Research		170,032	-
Health and Human Services, Department of	Direct		5 R01 DE021139-10	93.121	Oral Diseases and Disorders Research		322,661	-
Health and Human Services, Department of	Direct		5 R01 DE021410-09	93.121	Oral Diseases and Disorders Research		284,120	-
Health and Human Services, Department of	Direct		5 R01 DE024450 07	93.121	Oral Diseases and Disorders Research		574,135	244,761
Health and Human Services, Department of	Direct		5 R01 DE024796-06	93.121	Oral Diseases and Disorders Research		251,896	-
Health and Human Services, Department of	Direct		5 R01 DE025225-05	93.121	Oral Diseases and Disorders Research		205,615	27,938
Health and Human Services, Department of	Direct		5 R01 DE025827-05	93.121	Oral Diseases and Disorders Research		139,421	-
Health and Human Services, Department of	Direct		5 R01 DE026116-05	93.121	Oral Diseases and Disorders Research		212,601	-
Health and Human Services, Department of	Direct		5 R01 DE026578-05	93.121	Oral Diseases and Disorders Research		369,807	-
Health and Human Services, Department of	Direct		5 R01 DE026630-05	93.121	Oral Diseases and Disorders Research		494,309	-
Health and Human Services, Department of	Direct		5 R01 DE026666-04	93.121	Oral Diseases and Disorders Research		479,696	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 R01 DE026728-04 5 R01 DE027034-04	93.121 93.121	Oral Diseases and Disorders Research Oral Diseases and Disorders Research		279,047 377,929	-

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Injury Provention and Control Research and State and       Injury Provention and Control Research and State and         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203203-Project U       93.136       Community Based Programs       2.5       2.62       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203340-00 Project BV       93.136       Community Based Programs       1.964       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203372-00 Project BI       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203372-00 Project BI       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203372-00 Project BA       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       E20203372-00 Project BA       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Service							
Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203203-Project U       93.136       Community Based Programs       25,162       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203340-00 Project BV       93.16       Community Based Programs       1,964       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203372-00 Project BI       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203372-00 Project BI       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       E20203373-Project BA       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203373-Project BA       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203373-Project BA       93.136       Community Based Programs       61,822       -       -	Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203147-Project J	93.136		15,214	
Halth and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203340-00 Project BV       93.136       Community Based Programs       1,964       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203372-00 Project BI       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203373-Project BA       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203373-Project BA       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203373-Project BA       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       E20203373-Project BA       93.136       Community Based Programs       796       -         Health and Human Services, Department of       E20203581-00 CE       93.136       Community Based Programs       796       -         Health and Human Services, Department of       E20203746-Project CL       9							
Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203340-00 Project BV       93.136       Community Based Programs       1,964       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203372-00 Project BI       -       Community Based Programs       61,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203373-Project BA       Community Based Programs       61,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203373-Project BA       206       Community Based Programs       61,822       -         Health and Human Services, Department of       E20203373-Project BA       206       Community Based Programs       61,822       -         Health and Human Services, Department of       E2020378-Project BA       206       Community Based Programs       706       -         Health and Human Services, Department of       E20203581-00 CE       93.136       Community Based Programs       706       -         Health and Human Services, Department of       E20203746-Project CL       93.136       Community Based Programs       706       -         Health an	Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203203-Project U	93.136		25,162	-
Health and Human Services, Department of       F20203372-00 Project BI       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       F20203372-00 Project BI       93.136       Community Based Programs       63,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       F20203373-Project BA       93.136       Community Based Programs       83,822       -         Health and Human Services, Department of       F20203373-Project BA       93.136       Community Based Programs       83,822       -         Health and Human Services, Department of       F20203573-Project BA       93.136       Community Based Programs       83,822       -         Health and Human Services, Department of       F20203581-00 CE       93.136       Community Based Programs       796       -         Health and Human Services, Department of       F20203746-Project CL       93.136       Community Based Programs       796       -         Health and Human Services, Department of       F20203746-Project CL       93.136       Community Based Programs       74,590       -         Health and Human Services, Department of       F20203746-Project CL       93.136       Community Based Programs       74,590       -         Health and Human Servic			E20202240.00 B	02.126		1.06	
Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203372-00 Project BI       93.136       Community Based Programs       61,822         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203373-Project BA       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203373-Project BA       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       E20203373-Project BA       93.136       Community Based Programs       61,822       -         Health and Human Services, Department of       E20203746-Project CL       93.136       Community Based Programs       796       -         Health and Human Services, Department of       E20203746-Project CL       93.136       Community Based Programs       74,590       -         Health and Human Services, Department of       E20203746-Project CL       93.136       Community Based Programs       74,590       -         Health and Human Services, Department of       E20203746-Project CL       93.136       Community Based Programs       74,590       -         Health and Human Services, Department of       E20203746-Pro	Health and Human Services, Department of	Pass-Inrough Michigan, State of, Health and Human Services, Department of	E20203340-00 Project BV	93.136		1,964	-
Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203373-Project BA       9.16       Community Based Programs       6.8,822         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203373-Project BA       9.16       Community Based Programs       7.96         Health and Human Services, Department of       E20203581-00 CE       93.136       Community Based Programs       7.96         Health and Human Services, Department of       E20203746-Project CL       93.136       Community Based Programs       34,590         Health and Human Services, Department of       E20203746-Project CL       9.136       Community Research and State and       34,590	Health and Human Samiage Department of	Dess Through Michigan State of Health and Human Sources Department of	E20202272 00 Project PI	02 126		61.92	,
Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203373-Project BA       93.136       Community Based Programs       83,822	Health and Human Services, Department of	Pass-Through Whengan, State of, Hearth and Human Services, Department of	E20205572-00 Project BI	95.150		01,62	-
Health and Human Services, Department of       F20203581-00 CE       93.136       Community Based Programs       796         Health and Human Services, Department of       F20203581-00 CE       93.136       Community Based Programs       796         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       F20203746-Project CL       93.136       Community Based Programs       34,590         Health and Human Services, Department of       F20203746-Project CL       93.136       Community Based Programs       34,590	Health and Human Services Department of	Pass-Through Michigan State of Health and Human Services Department of	E20203373-Project BA	93 136		83.82	, <u> </u>
Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203581-00 CE       93.136       Community Based Programs Injury Prevention and Control Research and State and       796         Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203746-Project CL       93.136       Community Based Programs Injury Prevention and Control Research and State and       796	in Hanan Services, Department of		E2020375 Hojou Bri	25.150		05,022	
Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203746-Project CL       93.136       Community Based Programs       34,590       -         Injury Prevention and Control Research and State and       Injury Prevention and Control Research and State and       34,590       -	Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203581-00 CE	93.136		790	; -
Health and Human Services, Department of       Pass-Through Michigan, State of, Health and Human Services, Department of       E20203746-Project CL       93.136       Community Based Programs       34,590       -         Injury Prevention and Control Research and State and       34,590       -	× 1						
Injury Prevention and Control Research and State and	Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20203746-Project CL	93.136	Community Based Programs	34,590	) -
Health and Human Services, Department of     Pass-Through Michigan, State of, Health and Human Services, Department of     E20213626-001 L     93.136     Community Based Programs     35,460							
	Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213626-001 L	93.136	Community Based Programs	35,460	) -

Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Assistance Listing Number	Assistance Listing Program Title	Federal Expenditures	Passed-Through s to Subrecipients
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213627-002 AR	93.136	Injury Prevention and Control Research and State and Community Based Programs Injury Prevention and Control Research and State and	98,822	
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213628-003 AT	93.136	Community Based Programs Injury Prevention and Control Research and State and	35,336	;
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213629-002 AU	93.136	Community Based Programs Injury Prevention and Control Research and State and	64,339	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20213630-002 AW	93.136	Community Based Programs Injury Prevention and Control Research and State and	88,353	-
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20214114-002 BV	93.136	Community Based Programs Injury Prevention and Control Research and State and	52,366	-
Health and Human Services, Department of	Pass-Through Wayne State University	WSU19128	93.136	Community Based Programs	25,631 \$ 2,432,925	
	D'	5000 (D171156 02 00	02.127	Community Programs to Improve Minority Health Grant		
Health and Human Services, Department of	Direct	5CPIMP171156-03-00	93.137	Program Community Programs to Improve Minority Health Grant	\$ 67,051	
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20214755-00 CI	93.137	Program	19,637 \$ 86,688	
Health and Human Services, Department of	Pass-Through The University of Texas Health Science Center at Houston	SA0001344	93.142	NIEHS Hazardous Waste Worker Health and Safety Training	\$ 13,453	s -
Health and Human Services, Department of	Pass-Through The University of Texas Health Science Center at Houston	SA0001575	93.142	NIEHS Hazardous Waste Worker Health and Safety Training	15,194	
Health and Human Services, Department of	Pass-Through The University of Texas Health Science Center at Houston	SA0001577	93.142	NIEHS Hazardous Waste Worker Health and Safety Training	17,240	
				NIEHS Superfund Hazardous Substances Basic Research and	\$ 45,887	<u> </u>
Health and Human Services, Department of	Direct	1 R25 ES032616-01	93.143	Education	\$ 12,327	· s -
Health and Human Services, Department of	Pass-Through Northeastern University	500590-78050	93.143	NIEHS Superfund Hazardous Substances_Basic Research and Education	(2,228	0
				NIEHS Superfund Hazardous Substances_Basic Research and		
Health and Human Services, Department of	Pass-Through Northeastern University	500683?78050	93.143	Education NIEHS Superfund Hazardous Substances_Basic Research and	47,346	-
Health and Human Services, Department of	Pass-Through Northeastern University	500686-78050	93.143	Education NIEHS Superfund Hazardous Substances Basic Research and	297,053	-
Health and Human Services, Department of	Pass-Through Northeastern University	500687-78050	93.143	Education NIEHS Superfund Hazardous Substances Basic Research and	114,723	-
Health and Human Services, Department of	Pass-Through Northeastern University	500749-78050	93.143	Education NIEHS Superfund Hazardous Substances Basic Research and	34,543	-
Health and Human Services, Department of	Pass-Through Northeastern University	500750-78050	93.143	Education	62,235	
				Projects for Assistance in Transition from Homelessness	\$ 565,999	5 -
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20212715-002 AD	93.150	(PATH)	\$ 249,308	; S -
Health and Human Services, Department of	Direct	1 R21 HG011493-01	93.172	Human Genome Research	\$ 249,308 \$ 126,792	
Health and Human Services, Department of	Direct	5 F31 HG010569-03	93.172	Human Genome Research	9,867	-
Health and Human Services, Department of	Direct	5 F31 HG011186-02	93.172	Human Genome Research	42,075	
Health and Human Services, Department of	Direct	5 K01 HG010496 03	93.172	Human Genome Research	154,738	
Health and Human Services, Department of	Direct	5 R01 HG008773-05	93.172	Human Genome Research	429,995	
Health and Human Services, Department of	Direct	5 R01 HG009124-05	93.172	Human Genome Research	316,520	
Health and Human Services, Department of	Direct	5 R01 HG010567-03	93.172	Human Genome Research	554,555	
Health and Human Services, Department of	Direct	5 R01 HG010883-03	93.172 93.172	Human Genome Research	279,170	
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	5 R01 HG011031-02 5 R01HG009976-04	93.172	Human Genome Research Human Genome Research	94,149 420,273	
Health and Human Services, Department of	Direct	5 R01HG010731 03	93.172	Human Genome Research	164,718	
Health and Human Services, Department of	Direct	5 R35 HG011279-02	93.172	Human Genome Research	280,654	
Health and Human Services, Department of	Direct	5 UM1 HG009382-04S1	93.172	Human Genome Research	461,459	
Health and Human Services, Department of	Direct	T32 HG000040	93.172	Human Genome Research	(245,897	) -
Health and Human Services, Department of	Direct	T32 HG000040	93.172	Human Genome Research	849,693	
Health and Human Services, Department of	Direct	T32 HG010030	93.172	Human Genome Research	183,129	
Health and Human Services, Department of	Pass-Through Rutgers University	0354/PO765768	93.172	Human Genome Research	(19)	) -
Health and Human Services, Department of	Pass-Through Rutgers University	0858/PO1029910	93.172	Human Genome Research	4	-
Health and Human Services, Department of	Pass-Through Rutgers University	1323/PO1297769	93.172	Human Genome Research	36,193	
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Stanford University Pass-Through Stanford University	61630349-104913 62446469-123432	93.172 93.172	Human Genome Research Human Genome Research	84,073 355,825	
Health and Human Services, Department of	Pass-Through The Jackson Laboratory	210314-0430-08	93.172	Human Genome Research	(13,385	
Health and Human Services, Department of	Pass-Through The Jackson Laboratory	210354-0821-06/PO 214564-0	93.172	Human Genome Research	98,768	
Health and Human Services, Department of	Pass-Through The President and Fellows of Harvard College aka Harvard University	153056.5113862.0612	93.172	Human Genome Research	89,999	
	Pass-Through Washington University School of Medicine in St. Louis	WU-18-165-MOD-3	93.172	Human Genome Research	81,624	+ <u>-</u>
Health and Human Services, Department of		1 R01 DC019090-01	93.173	Research Related to Deafness and Communication Disorders	\$ 4,854,972 \$ 144,115	
	Direct	1 101 De019090-01				
Health and Human Services, Department of	Direct Direct	1 R56 DC018003-01	93.173	Research Related to Deafness and Communication Disorders	70	
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	1 R56 DC018003-01 5 DC018500-02	93.173	Research Related to Deafness and Communication Disorders	354,353	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct Direct	1 R56 DC018003-01 5 DC018500-02 5 F31 DC018206-03	93.173 93.173	Research Related to Deafness and Communication Disorders Research Related to Deafness and Communication Disorders	354,353 46,311	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct Direct Direct	1 R56 DC018003-01 5 DC018500-02 5 F31 DC018206-03 5 F31 DC019292-02	93.173 93.173 93.173	Research Related to Deafness and Communication Disorders Research Related to Deafness and Communication Disorders Research Related to Deafness and Communication Disorders	354,353 46,311 37,856	- - -
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct Direct	1 R56 DC018003-01 5 DC018500-02 5 F31 DC018206-03	93.173 93.173	Research Related to Deafness and Communication Disorders Research Related to Deafness and Communication Disorders	354,353 46,311	- - -

Charter Title/Federal Counter/Programm	Town Deve Theorem Counter	A	Assistance Listi		Federal Ferrarditerra	Passed-Throu
Cluster Title/Federal Grantor/Program Health and Human Services, Department of	Type Pass-Through Grantor Direct	Award Identifier 5 R01 DC004084-19	Number 93.173	Assistance Listing Program Title Research Related to Deafness and Communication Disorders	Federal Expenditures 253,764	to Subrecipien
lealth and Human Services, Department of	Direct	5 R01 DC014034-19	93.173	Research Related to Deafness and Communication Disorders	591,470	58,19
ealth and Human Services, Department of	Direct	5 R01 DC012760-07	93.173	Research Related to Deafness and Communication Disorders	191,745	59,32
ealth and Human Services, Department of	Direct	5 R01 DC012/00-07	93.173	Research Related to Deafness and Communication Disorders	165,907	59,52
ealth and Human Services, Department of	Direct	5 R01 DC014428-05 5 R01 DC014456-05	93.173	Research Related to Deafness and Communication Disorders	520,682	-
ealth and Human Services, Department of	Direct	5 R01 DC014703-05	93.173	Research Related to Deafness and Communication Disorders Research Related to Deafness and Communication Disorders	559,096	69,80
ealth and Human Services, Department of	Direct	5 R01 DC015809-05	93.173		603,348	19,44
ealth and Human Services, Department of	Direct	5 R01 DC018032-02	93.173	Research Related to Deafness and Communication Disorders	356,135	-
ealth and Human Services, Department of	Direct	5 R01 DC018167-02	93.173	Research Related to Deafness and Communication Disorders	327,398	-
lealth and Human Services, Department of	Direct	5 R01 DC018284-02	93.173	Research Related to Deafness and Communication Disorders	453,170	52,77
ealth and Human Services, Department of	Direct	5 R01 DC018404-02	93.173	Research Related to Deafness and Communication Disorders	308,651	3,14
ealth and Human Services, Department of	Direct	5 R21 DC016171-02	93.173	Research Related to Deafness and Communication Disorders	(42,382)	-
ealth and Human Services, Department of	Direct	5 R21 DC016456-02	93.173	Research Related to Deafness and Communication Disorders	3,344	-
ealth and Human Services, Department of	Direct	5 R21 DC016681-03	93.173	Research Related to Deafness and Communication Disorders	110,217	-
ealth and Human Services, Department of	Direct	5 R21 DC017916-02	93.173	Research Related to Deafness and Communication Disorders	195,859	-
ealth and Human Services, Department of	Direct	5 R33 DC013678-05	93.173	Research Related to Deafness and Communication Disorders	(7,232)	-
alth and Human Services, Department of	Direct	5-R01-DC-017119-04	93.173	Research Related to Deafness and Communication Disorders	312,706	-
alth and Human Services, Department of	Direct	5R01DC018003-02	93.173	Research Related to Deafness and Communication Disorders	593,657	-
alth and Human Services, Department of	Direct	5R01DC018283-02	93.173	Research Related to Deafness and Communication Disorders	417,580	174,9
alth and Human Services, Department of	Direct	5R21DC015861-04	93.173	Research Related to Deafness and Communication Disorders	(1,814)	-
alth and Human Services, Department of	Direct	T32 DC000011	93.173	Research Related to Deafness and Communication Disorders	331,254	
alth and Human Services, Department of	Direct	T32 DC005356	93.173	Research Related to Deafness and Communication Disorders	224,185	
	Pass-Through Ann and Robert H. Lurie Children's Hospital of Chicago	901537-UMich	93.173	Research Related to Deafness and Communication Disorders	7,418	
alth and Human Services, Department of	Pass-Through Ann and Robert H. Lurie Children's Hospital of Chicago Pass-Through Baylor University	PO 5601176401	93.173	Research Related to Deafness and Communication Disorders Research Related to Deafness and Communication Disorders	60,240	
alth and Human Services, Department of						
alth and Human Services, Department of	Pass-Through Boston University	4500002041	93.173	Research Related to Deafness and Communication Disorders	10,573	
alth and Human Services, Department of	Pass-Through Indiana University	8797_UM, PO0331944	93.173	Research Related to Deafness and Communication Disorders	39,662	
alth and Human Services, Department of	Pass-Through Johns Hopkins University	118484	93.173	Research Related to Deafness and Communication Disorders	5,442	
alth and Human Services, Department of	Pass-Through Massachusetts Eye and Ear	530026	93.173	Research Related to Deafness and Communication Disorders	38,495	
alth and Human Services, Department of	Pass-Through Prentke Romich Company	5020	93.173	Research Related to Deafness and Communication Disorders	159,816	
alth and Human Services, Department of	Pass-Through University of Delaware	56242	93.173	Research Related to Deafness and Communication Disorders	4,896	
alth and Human Services, Department of	Pass-Through University of Pittsburgh	AWD00002105 (134178-2)	93.173	Research Related to Deafness and Communication Disorders	15,451	
					\$ 7,508,174	\$ 437,6
				Immunization Research, Demonstration, Public Information		
alth and Human Services, Department of	Direct	1 U01 IP001138-01	93.185	and Education Training and Clinical Skills Improvement	\$ 185,012	\$ 11,9
and manual Services, Department of	biter	1 001 11 001150-01	25.105	Immunization Research, Demonstration, Public Information	\$ 105,012	φ 11,.
alth and Human Services, Department of	Direct	5 U01 IP001034-03	93.185	and Education Training and Clinical Skills Improvement	1,224,826	
and numan services, Department of	Dilect	5 001 11001034-05	95.165	Immunization Research, Demonstration, Public Information	1,224,620	-
			00.105		1.00.505	-
alth and Human Services, Department of	Direct	6 U01 IP00113801-01	93.185	and Education Training and Clinical Skills Improvement	168,597	7,9
				Immunization Research, Demonstration, Public Information		
alth and Human Services, Department of	Direct	6 U01IP001104-03-02	93.185	and Education Training and Clinical Skills Improvement	331,863	
				Immunization Research, Demonstration, Public Information		
alth and Human Services, Department of	Direct	6U01IP0010340402	93.185	and Education Training and Clinical Skills Improvement	960,084	
					\$ 2,870,382	\$ 19,8
				Childhood Lead Poisoning Prevention Projects, State and Local		
				Childhood Lead Poisoning Prevention and Surveillance of		
alth and Human Services, Department of	Pass-Through Michigan State University	RC107653-UM	93.197	Blood Lead Levels in Children	\$ 19,399	\$
· ·	ç ç ,			Childhood Lead Poisoning Prevention Projects, State and Local		
				Childhood Lead Poisoning Prevention and Surveillance of		
alth and Human Services, Department of	Pass-Through Michigan State University	RC107653-UM	93.197	Blood Lead Levels in Children	102,897	
and indifficult of	rass-rinough whengan state oniversity	RC107055-0W	95.197	Childhood Lead Poisoning Prevention Projects, State and Local		
				Childhood Lead Poisoning Prevention and Surveillance of		
14 and Hammer Commission Department of	Deer Threed Michigan Chata University	DC111285UM	02 107		169,127	
alth and Human Services, Department of	Pass-Through Michigan State University	RC111285UM	93.197	Blood Lead Levels in Children		
					\$ 291,423	\$
alth and Human Services, Department of	Direct	1 F31 AT011282-01	93.213	Research and Training in Complementary and Integrative Healt		\$
lth and Human Services, Department of	Direct	1 F32 AT011278-01A1	93.213	Research and Training in Complementary and Integrative Healt		
alth and Human Services, Department of	Direct	1 R01 AT010381 01A1	93.213	Research and Training in Complementary and Integrative Health	h 160,327	
Ith and Human Services, Department of	Direct	1 R25 AT010664-02	93.213	Research and Training in Complementary and Integrative Health	h 108,039	
alth and Human Services, Department of	Direct	1R01AT010797-01	93.213	Research and Training in Complementary and Integrative Healt	h 633,188	
alth and Human Services, Department of	Direct	5 F31 AT010973-02	93.213	Research and Training in Complementary and Integrative Healt		
Ith and Human Services, Department of	Direct	5 R01 AT007550-05S1	93.213	Research and Training in Complementary and Integrative Healt		22
Ith and Human Services, Department of	Direct	5 R01 AT009003-04	93.213	Research and Training in Complementary and Integrative Healt		
Ith and Human Services, Department of	Direct	5 R01 AT010060-03	93.213	Research and Training in Complementary and Integrative Health		
		5 R01 AT010000-05	93.213			
alth and Human Services, Department of	Direct			Research and Training in Complementary and Integrative Health		
alth and Human Services, Department of	Direct	5 R21 AT009253-02	93.213	Research and Training in Complementary and Integrative Health		
alth and Human Services, Department of	Direct	5 R61 AT009867-02	93.213	Research and Training in Complementary and Integrative Healt		4
alth and Human Services, Department of	Direct	5R33AT010106-03	93.213	Research and Training in Complementary and Integrative Healt		
alth and Human Services, Department of	Pass-Through Baylor University	32270170-01	93.213	Research and Training in Complementary and Integrative Health		
alth and Human Services, Department of	Pass-Through Baylor University	32270170-01	93.213	Research and Training in Complementary and Integrative Health	h 306,048	
alth and Human Services, Department of	Pass-Through Beth Israel Deaconess Medical Center	01029585	93.213	Research and Training in Complementary and Integrative Healt		
alth and Human Services, Department of	Pass-Through Beth Israel Deaconess Medical Center	01029585	93.213	Research and Training in Complementary and Integrative Healt		
alth and Human Services, Department of	Pass-Through Duke University	A03-4098	93.213	Research and Training in Complementary and Integrative Healt		
		1100 1000	10.410	in and framing in complementary and integrative freat		
ealth and Human Services, Department of	Pass-Through Duke University	A034196	93.213	Research and Training in Complementary and Integrative Healt	h 65,809	

			Assistance Listin	•		Passed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor Page Through Dules University	Award Identifier	Number 02 212	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Duke University	A034217 R44AT011380	93.213 93.213	Research and Training in Complementary and Integrative Health		-
Health and Human Services, Department of	Pass-Through Transtimulation Research Inc Pass-Through University of California - San Francisco	11062sc	93.213	Research and Training in Complementary and Integrative Health Research and Training in Complementary and Integrative Health		-
Health and Human Services, Department of	Pass-Through University of California - San Francisco	11062sc	93.213	Research and Training in Complementary and Integrative Health		-
Health and Human Services, Department of	Pass-Through Vale University	GR107785 (CON-80002027)	93.213	Research and Training in Complementary and Integrative Health		-
Health and Human Services, Department of	Pass-Through Yale University	GR110379 (CON-80002481)	93.213	Research and Training in Complementary and Integrative Health		_
ritanar and rianar Services, Deparation of	rub rub chivenky		,5.215	research and framing in complementary and integrative freat	\$ 3,700,018	\$ 27,806
Health and Human Services, Department of	Direct	1 K08 HS027640 01A1	93.226	Research on Healthcare Costs, Quality and Outcomes	\$ 38,514	
Health and Human Services, Department of	Direct	1 K08 HS027653-01A1	93.226	Research on Healthcare Costs, Quality and Outcomes	29,759	-
Health and Human Services, Department of	Direct	1 K08HS026530-01A1	93.226	Research on Healthcare Costs, Quality and Outcomes	33,756	-
Health and Human Services, Department of	Direct	1 R01 HS023597-01	93.226	Research on Healthcare Costs, Quality and Outcomes	(2,100)	-
Health and Human Services, Department of	Direct	1 R01 HS028038-01	93.226	Research on Healthcare Costs, Quality and Outcomes	57,587	-
Health and Human Services, Department of	Direct	1 R13 HS028375-01	93.226	Research on Healthcare Costs, Quality and Outcomes	1,035	-
Health and Human Services, Department of	Direct	1 R21 HS026257-02	93.226	Research on Healthcare Costs, Quality and Outcomes	(1,495)	-
Health and Human Services, Department of	Direct	1 R36 HS026836-01A1	93.226	Research on Healthcare Costs, Quality and Outcomes	4,132	-
Health and Human Services, Department of	Direct	1 R36 HS027044-01	93.226	Research on Healthcare Costs, Quality and Outcomes	1,835	-
Health and Human Services, Department of	Direct	5 K08 HS023621-05	93.226	Research on Healthcare Costs, Quality and Outcomes	44,372	-
Health and Human Services, Department of	Direct	5 K08 HS024160-05	93.226	Research on Healthcare Costs, Quality and Outcomes	57,598	-
Health and Human Services, Department of	Direct	5 K08 HS024552-05	93.226	Research on Healthcare Costs, Quality and Outcomes	114,481	-
Health and Human Services, Department of	Direct	5 K08 HS024763-04	93.226	Research on Healthcare Costs, Quality and Outcomes	14,182	-
Health and Human Services, Department of	Direct	5 K08 HS025465 04 5 K08 HS025778 04	93.226 93.226	Research on Healthcare Costs, Quality and Outcomes	153,550	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	5 K08 HS025778-04 5 K08 HS026030-04	93.226	Research on Healthcare Costs, Quality and Outcomes Research on Healthcare Costs, Quality and Outcomes	117,964 145,316	-
Health and Human Services, Department of	Direct	5 K08 HS020050-04 5 K08 HS026772-03	93.226	Research on Healthcare Costs, Quality and Outcomes	131,601	-
Health and Human Services, Department of	Direct	5 K08 HS027632-02	93.226	Research on Healthcare Costs, Quality and Outcomes	101,812	-
Health and Human Services, Department of	Direct	5 R01 026908-02	93.226	Research on Healthcare Costs, Quality and Outcomes	333,578	2,917
Health and Human Services, Department of	Direct	5 R01 HS 026912-02	93.226	Research on Healthcare Costs, Quality and Outcomes	343,453	
Health and Human Services, Department of	Direct	5 R01 HS018334-10	93.226	Research on Healthcare Costs, Quality and Outcomes	90,277	-
Health and Human Services, Department of	Direct	5 R01 HS024512-04	93.226	Research on Healthcare Costs, Quality and Outcomes	47,948	-
Health and Human Services, Department of	Direct	5 R01 HS024525-05	93.226	Research on Healthcare Costs, Quality and Outcomes	273,156	-
Health and Human Services, Department of	Direct	5 R01 HS024728-05	93.226	Research on Healthcare Costs, Quality and Outcomes	302,992	-
Health and Human Services, Department of	Direct	5 R01 HS024914-03	93.226	Research on Healthcare Costs, Quality and Outcomes	37,494	-
Health and Human Services, Department of	Direct	5 R01 HS024953-06	93.226	Research on Healthcare Costs, Quality and Outcomes	356,312	168,138
Health and Human Services, Department of	Direct	5 R01 HS025365-04	93.226	Research on Healthcare Costs, Quality and Outcomes	492,803	-
Health and Human Services, Department of	Direct	5 R01 HS025451-05	93.226	Research on Healthcare Costs, Quality and Outcomes	449,368	-
Health and Human Services, Department of	Direct	5 R01 HS025707-05	93.226	Research on Healthcare Costs, Quality and Outcomes	345,756	-
Health and Human Services, Department of	Direct	5 R01 HS026003-04	93.226	Research on Healthcare Costs, Quality and Outcomes	420,272	10,664
Health and Human Services, Department of	Direct	5 R01 HS026244 04	93.226	Research on Healthcare Costs, Quality and Outcomes	653,967	-
Health and Human Services, Department of	Direct	5 R01 HS027183-03	93.226	Research on Healthcare Costs, Quality and Outcomes	439,289	-
Health and Human Services, Department of	Direct	5 R01 HS027431-02	93.226	Research on Healthcare Costs, Quality and Outcomes	503,430	-
Health and Human Services, Department of	Direct	5 R01HS024709-06	93.226	Research on Healthcare Costs, Quality and Outcomes	199,526	143,296
Health and Human Services, Department of	Direct	5 R01HS026725-03	93.226	Research on Healthcare Costs, Quality and Outcomes	646,168	480,589
Health and Human Services, Department of	Direct	5 R03 HS025838-02	93.226	Research on Healthcare Costs, Quality and Outcomes	5,325	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	5 R1 8HS025891-04 5 R18 HS022258-05	93.226 93.226	Research on Healthcare Costs, Quality and Outcomes	465,209 27,953	-
Health and Human Services, Department of	Direct	5 R18 HS022238-05	93.226	Research on Healthcare Costs, Quality and Outcomes Research on Healthcare Costs, Quality and Outcomes	714,410	237,280
Health and Human Services, Department of	Direct	5 R18 HS020022-04 5 R18 HS026874-02	93.226	Research on Healthcare Costs, Quality and Outcomes	412,525	237,280
Health and Human Services, Department of	Direct	5 R18 HS020874-02 5 R18 HS027902-02	93.226	Research on Healthcare Costs, Quality and Outcomes	402,888	333,952
Health and Human Services, Department of	Direct	5 R21HS026322-02	93.226	Research on Healthcare Costs, Quality and Outcomes	168,963	555,752
Health and Human Services, Department of	Direct	5 U18 HS025292-04	93.226	Research on Healthcare Costs, Quality and Outcomes	202,246	-
Health and Human Services, Department of	Direct	T32 HS000053	93.226	Research on Healthcare Costs, Quality and Outcomes	639,395	-
Health and Human Services, Department of	Pass-Through Albert Einstein College of Medicine	311812	93.226	Research on Healthcare Costs, Quality and Outcomes	6,663	-
Health and Human Services, Department of	Pass-Through Cleveland Clinic Foundation (CCF)	Subaward No 1469-SUB	93.226	Research on Healthcare Costs, Quality and Outcomes	22,038	-
Health and Human Services, Department of	Pass-Through Duke University	203-7974	93.226	Research on Healthcare Costs, Quality and Outcomes	(908)	-
Health and Human Services, Department of	Pass-Through Duke University	A032560	93.226	Research on Healthcare Costs, Quality and Outcomes	29,563	-
Health and Human Services, Department of	Pass-Through Northwestern University	60047941 UM	93.226	Research on Healthcare Costs, Quality and Outcomes	3,333	-
Health and Human Services, Department of	Pass-Through Northwestern University	60047941 UM	93.226	Research on Healthcare Costs, Quality and Outcomes	35,093	-
Health and Human Services, Department of	Pass-Through University of California - San Francisco	10588sc	93.226	Research on Healthcare Costs, Quality and Outcomes	34,911	-
Health and Human Services, Department of	Pass-Through University of Chicago	AWD100573 (SUB00000223)	93.226	Research on Healthcare Costs, Quality and Outcomes	20,669	-
Health and Human Services, Department of	Pass-Through University of Iowa	S01577-01	93.226	Research on Healthcare Costs, Quality and Outcomes	2,299	-
Health and Human Services, Department of	Pass-Through University of Southern California	121781238	93.226	Research on Healthcare Costs, Quality and Outcomes	64,656	-
Health and Human Services, Department of	Pass-Through University of Utah	10051038	93.226	Research on Healthcare Costs, Quality and Outcomes	62,023	-
Health and Human Services, Department of	Pass-Through University of Utah	10051038-02/PO U000210781	93.226	Research on Healthcare Costs, Quality and Outcomes	(3)	-
Health and Human Services, Department of	Pass-Through Washington University School of Medicine in St. Louis	WU-21-236/PO 2941030K	93.226	Research on Healthcare Costs, Quality and Outcomes	44,224 £ 10,242,162	- • 1276.025
Haalth and Human Conviga- Deventure of	Direct	5 801 00 144014 02	02 222		\$ 10,343,163 \$ 99,117	\$ 1,376,836
Health and Human Services, Department of	Direct	5 K01 HL144914-03 5 K01 HL151673-02	93.233			- s
Health and Human Services, Department of Health and Human Services, Department of	Direct		93.233 93.233	National Center on Sleep Disorders Research National Center on Sleep Disorders Research	88,210 171,075	-
Health and Human Services, Department of Health and Human Services, Department of	Direct	5 K08 HL147377-03 5 P01 HL123379 04	93.233 93.233	National Center on Sleep Disorders Research National Center on Sleep Disorders Research		-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	5 R01 HL123379-04 5 R01 HL126700-04	93.233	National Center on Sleep Disorders Research National Center on Sleep Disorders Research	(2,181) 257,943	20,000
Health and Human Services, Department of	Direct	5 R01 HL120700-04 5 R01 HL122741-02	93.233	National Center on Sleep Disorders Research	105,812	20,000
Health and Human Services, Department of	Pass-Through The Children's Hospital of Philadelphia	3210920619-S1/PO#20022076-RSUB	93.233	National Center on Sleep Disorders Research	31,372	-

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Cluster Title/Federal Grantor/Program	Type Pass-Throu		Number	Assistance Listing Program Title	Federal Expenditures to	Subrecipier
Health and Human Services, Department of	Pass-Through The Children's Hospital of Philadelphia	3210920620	93.233	National Center on Sleep Disorders Research	12,719	-
Health and Human Services, Department of	Pass-Through University of Pennsylvania	576850	93.233	National Center on Sleep Disorders Research	(232)	-
Health and Human Services, Department of	Pass-Through University of Pennsylvania	576850	93.233	National Center on Sleep Disorders Research	(4,574)	-
Health and Human Services, Department of	Pass-Through University of Pennsylvania	580871	93.233	National Center on Sleep Disorders Research	62,267	-
Health and Human Services, Department of	Pass-Through University of Pennsylvania	580871	93.233	National Center on Sleep Disorders Research	86,938	-
Health and Human Services, Department of	Pass-Through University of Pennsylvania	580871	93.233	National Center on Sleep Disorders Research	31,295	-
Iealth and Human Services, Department of	Pass-Through University of Utah	10051783-01/POU000181390	93.233	National Center on Sleep Disorders Research	18,343	-
	<b>D</b> ' (	1 521 MU25612 01	02.242	M (III N D IC)	\$ 958,104 \$	20,0
Health and Human Services, Department of	Direct	1 F31 MH125613-01	93.242	Mental Health Research Grants	\$ 15,883 \$	-
Iealth and Human Services, Department of	Direct	1 F32 MH124268-01A1	93.242	Mental Health Research Grants	22,003	-
Iealth and Human Services, Department of	Direct	1 R01 MH121531-01A1	93.242	Mental Health Research Grants	112,082	-
Iealth and Human Services, Department of	Direct	1 R01 MH123388 01A1	93.242	Mental Health Research Grants	185,092	-
ealth and Human Services, Department of	Direct	1 R01 MH126960 01	93.242	Mental Health Research Grants	10,195	
ealth and Human Services, Department of	Direct	1 R21 MH121974-01	93.242	Mental Health Research Grants	128,180	26,8
ealth and Human Services, Department of	Direct	1 R33MH121641-01A1	93.242	Mental Health Research Grants	92,140	5,2
ealth and Human Services, Department of	Direct	1 R34 MH123609-01	93.242	Mental Health Research Grants	111,558	
ealth and Human Services, Department of	Direct	1 R61 MH125757-01	93.242	Mental Health Research Grants	178,634	
ealth and Human Services, Department of	Direct	1 RF MH114244-01	93.242	Mental Health Research Grants	512,602	
ealth and Human Services, Department of	Direct	1 RF1 MH 123199-01	93.242	Mental Health Research Grants	121,921	
ealth and Human Services, Department of	Direct	1 RF1 MH122833-01	93.242	Mental Health Research Grants	38,224	
ealth and Human Services, Department of	Direct	1 RF1MH123402-01	93.242	Mental Health Research Grants	271,389	19,
alth and Human Services, Department of	Direct	1 RF1MH124611-01	93.242	Mental Health Research Grants	162,681	
ealth and Human Services, Department of	Direct	1R01MH126137-01	93.242	Mental Health Research Grants	77,715	
ealth and Human Services, Department of	Direct	1R21MH120465-01A1	93.242	Mental Health Research Grants	121,890	7,
ealth and Human Services, Department of	Direct	1R25MH126703-01	93.242	Mental Health Research Grants	3,824	
ealth and Human Services, Department of	Direct	1R34MH124767-01	93.242	Mental Health Research Grants	48,154	
ealth and Human Services, Department of	Direct	1RF1MH120005-01	93.242	Mental Health Research Grants	733,502	76,
ealth and Human Services, Department of	Direct	3 K23 MH109762-04S1	93.242	Mental Health Research Grants	161,400	
ealth and Human Services, Department of	Direct	3 R01 MH102242-05S1	93.242	Mental Health Research Grants	(2,015)	
ealth and Human Services, Department of	Direct	5 F31 MH117887-03	93.242	Mental Health Research Grants	44,378	
alth and Human Services, Department of	Direct	5 F31 MH123132-02	93.242	Mental Health Research Grants	51,353	
ealth and Human Services, Department of	Direct	5 K01 MH110605-04	93.242	Mental Health Research Grants	126,597	
ealth and Human Services, Department of	Direct	5 K08 MH116267-04	93.242	Mental Health Research Grants	200,027	
ealth and Human Services, Department of	Direct	5 K23 MH108823-05	93.242	Mental Health Research Grants	148,726	
ealth and Human Services, Department of	Direct	5 K23 MH112852-04	93.242	Mental Health Research Grants	151,939	
ealth and Human Services, Department of	Direct	5 K23 MH113776-04	93.242	Mental Health Research Grants	183,006	
ealth and Human Services, Department of	Direct	5 R01 MH063649-15	93.242	Mental Health Research Grants	(89,404)	
lealth and Human Services, Department of	Direct	5 R01 MH063649-17	93.242	Mental Health Research Grants	474,096	
ealth and Human Services, Department of	Direct	5 R01 MH085321-10	93.242	Mental Health Research Grants	12,811	
			93.242			
ealth and Human Services, Department of	Direct Direct	5 R01 MH101459-09	93.242	Mental Health Research Grants Mental Health Research Grants	861,473	
ealth and Human Services, Department of		5 R01 MH102263-05			65,909	7
ealth and Human Services, Department of	Direct	5 R01 MH103244-05	93.242	Mental Health Research Grants	60,438	7,
ealth and Human Services, Department of	Direct	5 R01 MH103761-05	93.242	Mental Health Research Grants	97,068	22
ealth and Human Services, Department of	Direct	5 R01 MH107419-05	93.242	Mental Health Research Grants	468,872	22,
ealth and Human Services, Department of	Direct	5 R01 MH107741-05	93.242	Mental Health Research Grants	371,935	
lealth and Human Services, Department of	Direct	5 R01 MH110524-04	93.242	Mental Health Research Grants	313,946	145,
ealth and Human Services, Department of	Direct	5 R01 MH110872-04	93.242	Mental Health Research Grants	1,056,196	573,
ealth and Human Services, Department of	Direct	5 R01 MH110932-04	93.242	Mental Health Research Grants	59,128	4,
ealth and Human Services, Department of	Direct	5 R01 MH112458-05	93.242	Mental Health Research Grants	633,079	195,
ealth and Human Services, Department of	Direct	5 R01 MH112669-05	93.242	Mental Health Research Grants	457,095	
ealth and Human Services, Department of	Direct	5 R01 MH113574-03	93.242	Mental Health Research Grants	558,458	474,
ealth and Human Services, Department of	Direct	5 R01 MH113582-03	93.242	Mental Health Research Grants	294,209	80,
ealth and Human Services, Department of	Direct	5 R01 MH114203-05	93.242	Mental Health Research Grants	791,540	
ealth and Human Services, Department of	Direct	5 R01 MH114958-04	93.242	Mental Health Research Grants	376,986	
ealth and Human Services, Department of	Direct	5 R01 MH11511-04	93.242	Mental Health Research Grants	596,349	
ealth and Human Services, Department of	Direct	5 R01 MH115765-04	93.242	Mental Health Research Grants	511,878	462
ealth and Human Services, Department of	Direct	5 R01 MH120124-03	93.242	Mental Health Research Grants	806,912	55
alth and Human Services, Department of	Direct	5 R01 MH122491-02	93.242	Mental Health Research Grants	333,438	19
alth and Human Services, Department of	Direct	5 R01 MH123392-02	93.242	Mental Health Research Grants	307,039	82
alth and Human Services, Department of	Direct	5 R01MH119346-03	93.242	Mental Health Research Grants	456,149	
alth and Human Services, Department of	Direct	5 R01-MH121079-03	93.242	Mental Health Research Grants	984,433	13
alth and Human Services, Department of	Direct	5 R21 MH108989-02	93.242	Mental Health Research Grants	16,830	
alth and Human Services, Department of	Direct	5 R21 MH114835-02	93.242	Mental Health Research Grants	6,106	
alth and Human Services, Department of	Direct	5 R21 MH120633-02	93.242	Mental Health Research Grants	131,931	
alth and Human Services, Department of	Direct	5 R21 MH120035-02 5 R21 MH120824-02	93.242	Mental Health Research Grants	202,962	53
ealth and Human Services, Department of	Direct	5 R21 MH120824-02 5 R21 MH123218-02	93.242	Mental Health Research Grants	114,892	11
ealth and Human Services, Department of	Direct	5 R21 MH125218-02 5 R21MH117788-02	93.242	Mental Health Research Grants	202,326	11
ealth and Human Services, Department of	Direct		93.242	Mental Health Research Grants	3,115	
		5 R25 MH071279-15				
ealth and Human Services, Department of	Direct	5 R34 MH111531-03	93.242	Mental Health Research Grants	97,261	8
ealth and Human Services, Department of	Direct	5 U01 MH104311-03	93.242	Mental Health Research Grants	31,443	30
ealth and Human Services, Department of ealth and Human Services, Department of	Direct Direct	5 U01 MH105653-04 5 U01 MH106892-05	93.242 93.242	Mental Health Research Grants Mental Health Research Grants	160,422 121,130	7

	T			Assistance Listing		<b>FI 15 </b>	Passed-Through
Cluster Title/Federal Grantor/Program	Type	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title Mental Health Research Grants		es to Subrecipients
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5R01MH118634-03 5R61MH117157-02	93.242 93.242	Mental Health Research Grants Mental Health Research Grants	449,60 622,25	
Health and Human Services, Department of	Direct		7R01MH109170-04	93.242	Mental Health Research Grants	(1,74	
Health and Human Services, Department of	Pass-Through Care New Engl	and Health System	9272-8179	93.242	Mental Health Research Grants	144,41	
Health and Human Services, Department of	Pass-Through Dartmouth Coll		R751	93.242	Mental Health Research Grants	(74,34	
Health and Human Services, Department of	U	chcock Medical Center (DHMC)	GC10037-00-01	93.242	Mental Health Research Grants	73,60	
Health and Human Services, Department of		chcock Medical Center (DHMC)	GC10037-00-01	93.242	Mental Health Research Grants	124,84	
Health and Human Services, Department of	Pass-Through Emory Universit		A317782	93.242	Mental Health Research Grants	32,55	
Health and Human Services, Department of	Pass-Through Emory Universit		A403726	93.242	Mental Health Research Grants	90,58	
Health and Human Services, Department of	Pass-Through Florida Internat		000448	93.242	Mental Health Research Grants	10,72	
Health and Human Services, Department of	Pass-Through Hektoen Institu		50082-R01-UMICH02	93.242	Mental Health Research Grants	22,95	
Health and Human Services, Department of	Pass-Through Hektoen Institu		50082-R01-UMICH02	93.242	Mental Health Research Grants	21,20	
Health and Human Services, Department of	Pass-Through Hektoen Institu		50504-324-UMICH	93.242	Mental Health Research Grants	(67	4) -
Health and Human Services, Department of	Pass-Through Henry Ford He	alth System	B11208	93.242	Mental Health Research Grants	11,98	8 -
Health and Human Services, Department of	Pass-Through Indiana University	sity-Purdue University Indianapolis (IUPUI)	8819-UM	93.242	Mental Health Research Grants	54,57	3 -
Health and Human Services, Department of	Pass-Through Johns Hopkins	University	2004113264	93.242	Mental Health Research Grants	17,69	8 -
Health and Human Services, Department of	Pass-Through Johns Hopkins	University	2004696001	93.242	Mental Health Research Grants	35,21	8 -
Health and Human Services, Department of	Pass-Through Michigan State	University	RC107692UM	93.242	Mental Health Research Grants	6,26	2 -
Health and Human Services, Department of	Pass-Through Michigan State	University	RC109167UM	93.242	Mental Health Research Grants	(23,75	1) -
Health and Human Services, Department of	Pass-Through Michigan State	University	RC109167UM	93.242	Mental Health Research Grants	34,47	3 -
Health and Human Services, Department of	Pass-Through Michigan State		RC109167UM	93.242	Mental Health Research Grants	243,62	7 -
Health and Human Services, Department of	Pass-Through Michigan State	University	RC111688A	93.242	Mental Health Research Grants	1,54	4 -
Health and Human Services, Department of	Pass-Through Michigan State		RC112111A	93.242	Mental Health Research Grants	1,00	
Health and Human Services, Department of		oundation Enterprises, Inc. (dba Heluna Health)	R34MH121139	93.242	Mental Health Research Grants	3,03	9 -
Health and Human Services, Department of		oundation Enterprises, Inc. (dba Heluna Health)	R34MH121139	93.242	Mental Health Research Grants	12,06	9 -
Health and Human Services, Department of	Pass-Through San Francisco S		PO #S16-0020	93.242	Mental Health Research Grants	57,00	7 -
Health and Human Services, Department of	Pass-Through Simmersion L.I		5065-UM	93.242	Mental Health Research Grants	96,28	
Health and Human Services, Department of	Pass-Through Simmersion L.I	L.C.	5076-UM	93.242	Mental Health Research Grants	49,00	2 -
Health and Human Services, Department of	Pass-Through Stanford Unive		62326779-132392	93.242	Mental Health Research Grants	191,78	
Health and Human Services, Department of	Pass-Through Stony Brook Un	niversity	1125719-2-71758	93.242	Mental Health Research Grants	(89	
Health and Human Services, Department of	Pass-Through The University	of Western Australia	Subaward of R01MH118218	93.242	Mental Health Research Grants	98,47	0 -
Health and Human Services, Department of	Pass-Through University of A		000518108-SC002	93.242	Mental Health Research Grants	99,26	
Health and Human Services, Department of	Pass-Through University of A		UAF 20-0116	93.242	Mental Health Research Grants	1,30	2 -
Health and Human Services, Department of	Pass-Through University of A	laska Fairbanks	UAF20-0116	93.242	Mental Health Research Grants	113,12	6 30,784
Health and Human Services, Department of	Pass-Through University of C	alifornia - Los Angeles	1940 G YA138	93.242	Mental Health Research Grants	91,12	4 -
Health and Human Services, Department of	Pass-Through University of Ic	wa	S00482-02	93.242	Mental Health Research Grants	212,09	9 80,733
Health and Human Services, Department of	Pass-Through University of M		81426-Z0279201	93.242	Mental Health Research Grants	55,90	2 -
Health and Human Services, Department of	Pass-Through University of N		UNR-21-21	93.242	Mental Health Research Grants	5,89	4 -
Health and Human Services, Department of	Pass-Through University of P		576948	93.242	Mental Health Research Grants	3,71	0 -
Health and Human Services, Department of	Pass-Through University of P		579565	93.242	Mental Health Research Grants	626,07	2 -
Health and Human Services, Department of		ennessee - Health Science Center	21-1853-MICH	93.242	Mental Health Research Grants	12,18	8 -
Health and Human Services, Department of	Pass-Through University of W	/ashington	UWSC11023/BP 037783	93.242	Mental Health Research Grants	75,13	4 -
Health and Human Services, Department of	Pass-Through University of W		796K633	93.242	Mental Health Research Grants	15,50	7 -
Health and Human Services, Department of	Pass-Through Vanderbilt Univ		VUMC62534	93.242	Mental Health Research Grants	36,82	8 -
						\$ 19,715,06	1 \$ 2,627,631
					Substance Abuse and Mental Health Services Projects of		
Health and Human Services, Department of	Direct		5 H79TI081658-03	93.243	Regional and National Significance	\$ 186,77	6 \$ -
					Substance Abuse and Mental Health Services Projects of		
Health and Human Services, Department of	Direct		5 U79 SM062492-03	93.243	Regional and National Significance	3,06	4 -
					Substance Abuse and Mental Health Services Projects of		
Health and Human Services, Department of	Pass-Through American India	n Health and Family Services of SE Michigan, Inc (AIHFS)	Research Agreement	93.243	Regional and National Significance	72,84	5 -
					Substance Abuse and Mental Health Services Projects of		
Health and Human Services, Department of	Pass-Through American Psych	hiatric Association	Project Title: CSS-SMI SAMHSA	93.243	Regional and National Significance	50	6 -
					Substance Abuse and Mental Health Services Projects of		
Health and Human Services, Department of	Pass-Through American Psych	hiatric Association	Project Title: CSS-SMI SAMHSA	93.243	Regional and National Significance	24,59	7 -
					Substance Abuse and Mental Health Services Projects of		
Health and Human Services, Department of	Pass-Through Baylor College	of Medicine	5U79SM063570-03	93.243	Regional and National Significance	(83	8) -
					Substance Abuse and Mental Health Services Projects of		
Health and Human Services, Department of	Pass-Through Baylor College	of Medicine	5U79SM063570-04	93.243	Regional and National Significance	3,13	6 -
· *					Substance Abuse and Mental Health Services Projects of		
Health and Human Services, Department of	Pass-Through Baylor College	of Medicine	PO 7000001150	93.243	Regional and National Significance	3,40	7 -
· *					Substance Abuse and Mental Health Services Projects of		
Health and Human Services, Department of	Pass-Through Behavioral Con	nections of Wood County Inc	Research Agreement	93.243	Regional and National Significance	(3,83	3) -
* *	0		6		Substance Abuse and Mental Health Services Projects of		,
Health and Human Services, Department of	Pass-Through Detroit Health l	Department	6002283 PO 3034962	93.243	Regional and National Significance	115,52	5 -
	6				Substance Abuse and Mental Health Services Projects of	,.	
Health and Human Services, Department of	Pass-Through George Washin	gton University	19-M103	93.243	Regional and National Significance	37,00	8 -
	C 0	- ,			Substance Abuse and Mental Health Services Projects of	,	
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Health and Human Services, Department of	Pass-Through George Washin	gton University	19-M103	93.243	Regional and National Significance	60,52	1 -
Health and Human Services, Department of	Pass-Through George Washin	gton University	19-M103	93.243	Regional and National Significance Substance Abuse and Mental Health Services Projects of	60,52	1 -
Health and Human Services, Department of Health and Human Services, Department of		gton University e of, Health and Human Services, Department of	19-M103 E20203279-Project BY	93.243 93.243		60,52 58,45	

Cluster Title/Federal Grantor/Program	Type Dass Through Cuanta	Award Idantifian	Assistance Listin		Fadare		ed-Through
Cluster True/receral Grantor/Program	Type Pass-Through Granton	Award Identifier	Number	Assistance Listing Program Title Substance Abuse and Mental Health Services Projects of	redera	Expenditures to S	uprecipients
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Departu	nent of E20213517-003 BJ	93.243	Regional and National Significance Substance Abuse and Mental Health Services Projects of		185,383	-
Iealth and Human Services, Department of	Pass-Through Teen HYPE	SP021781	93.243	Regional and National Significance		38,865	-
			02.245		\$	785,420 \$	-
lealth and Human Services, Department of lealth and Human Services, Department of	Direct Direct	4 D09 HP28677-03-04 4 T94 HP30911-02-04	93.247 93.247	Advanced Nursing Education Workforce Grant Program Advanced Nursing Education Workforce Grant Program	\$	3,695 \$ 269,955	-
Iealth and Human Services, Department of	Direct	5 T14HP33200-03-00	93.247	Advanced Nursing Education Workforce Grant Program		375,445	-
				6 6	\$	649,095 \$	-
Health and Human Services, Department of	Direct	5 R01 OH011082-04-00	93.262	Occupational Safety and Health Program	\$	274,381 \$	
Health and Human Services, Department of	Direct	5 T42 OH008455-17-00 T42 OH008455	93.262	Occupational Safety and Health Program		1,689,873	72,226
Health and Human Services, Department of	Direct	142 0H008455	93.262	Occupational Safety and Health Program	\$	(40,262) 1,923,992 \$	72,226
				Health Systems Strengthening and HIV/AIDS Prevention, Ca		1,725,772 \$	12,220
				and Treatment under the President's Emergency Plan for AIE	S		
Health and Human Services, Department of	Direct	5 R01 HS024698-05	93.266	Relief	\$	308,199 \$	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	1 R01 AA028761-01 1 R03 AA025449-02	93.273 93.273	Alcohol Research Programs Alcohol Research Programs	\$	86,007 \$ 6,081	-
Health and Human Services, Department of	Direct	5 K01 AA024804-05	93.273	Alcohol Research Programs		122,442	-
Health and Human Services, Department of	Direct	5 K23 AA023869-06	93.273	Alcohol Research Programs		139,216	-
Health and Human Services, Department of	Direct	5 K23 AA026333-04	93.273	Alcohol Research Programs		181,165	-
Health and Human Services, Department of	Direct	5 R01 AA023122-05	93.273	Alcohol Research Programs		36,983	-
Iealth and Human Services, Department of Iealth and Human Services, Department of	Direct Direct	5 R01 AA023504-08 5 R01 AA024175-05	93.273 93.273	Alcohol Research Programs Alcohol Research Programs		272,356 400,906	-
Health and Human Services, Department of	Direct	5 R01 AA024175-05 5 R01 AA024433-05	93.273	Alcohol Research Programs		641,614	65,291
Health and Human Services, Department of	Direct	5 R01 AA024755-05	93.273	Alcohol Research Programs		491,305	-
Health and Human Services, Department of	Direct	5 R01 AA025684-03	93.273	Alcohol Research Programs		197,292	21,150
Health and Human Services, Department of	Direct	5 R01 AA025790-04	93.273	Alcohol Research Programs		525,190	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	5 R01 AA026687 03 5 R01 AA027513-03	93.273 93.273	Alcohol Research Programs Alcohol Research Programs		335,700 628,333	21,496
Health and Human Services, Department of	Direct	5 R03 AA02751-02	93.273	Alcohol Research Programs		52,110	21,490
Health and Human Services, Department of	Direct	5 R21 AA027875-02	93.273	Alcohol Research Programs		147,774	-
Health and Human Services, Department of	Direct	5 R21AA025945-02	93.273	Alcohol Research Programs		267,345	-
Health and Human Services, Department of	Direct	521AA028315-02	93.273	Alcohol Research Programs		159,473	-
Health and Human Services, Department of	Direct Direct	5K01AA027558-03 5K23AA022641-05	93.273 93.273	Alcohol Research Programs Alcohol Research Programs		158,302 (1,009)	-
Health and Human Services, Department of Health and Human Services, Department of	Direct	5K23AA022041-05 5K23AA028232-02	93.273	Alcohol Research Programs		136,184	-
Health and Human Services, Department of	Direct	5R01AA028158-03	93.273	Alcohol Research Programs		461,739	-
Health and Human Services, Department of	Direct	5R34AA027272-03	93.273	Alcohol Research Programs		125,381	-
Health and Human Services, Department of	Direct	7 R01 AA026574-04	93.273	Alcohol Research Programs		74,436	14,418
Health and Human Services, Department of	Direct Direct	T32 AA007477	93.273 93.273	Alcohol Research Programs		21,747 155,122	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Arborsense, Inc.	T32 AA007477 R44AA026119	93.273	Alcohol Research Programs Alcohol Research Programs		860	-
Health and Human Services, Department of	Pass-Through Arborsense, Inc.	Research Agreement	93.273	Alcohol Research Programs		14,922	-
Health and Human Services, Department of	Pass-Through Brown University	00001217	93.273	Alcohol Research Programs		17,082	-
Health and Human Services, Department of	Pass-Through Columbia University	1(GG014239)	93.273	Alcohol Research Programs		40,584	-
Health and Human Services, Department of	Pass-Through Michigan State University	RC112828B	93.273 93.273	Alcohol Research Programs		18,502	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through University of California - San Francisco Pass-Through University of California - San Francisco	11086sc 11585sc	93.273	Alcohol Research Programs Alcohol Research Programs		16,835 9,094	-
Health and Human Services, Department of	Pass-Through University of Ellinois at Chicago	17243	93.273	Alcohol Research Programs		72,618	-
Health and Human Services, Department of	Pass-Through University of Minnesota	A007345702	93.273	Alcohol Research Programs		33,389	-
Health and Human Services, Department of	Pass-Through University of Minnesota	A007398901	93.273	Alcohol Research Programs		30,442	-
Health and Human Services, Department of	Pass-Through University of Washington	BPO15637	93.273	Alcohol Research Programs		18,730	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through University of Washington Pass-Through University of Washington	UWSC12518 UWSC12519	93.273 93.273	Alcohol Research Programs Alcohol Research Programs		4,604 29,870	-
Health and Human Services, Department of	Pass-Through Yale University	GR106383 (CON-80001834)	93.273	Alcohol Research Programs		61,896	_
	5	,		0	\$	6,192,622 \$	122,355
Health and Human Services, Department of	Direct	1 R01 DA049795 02	93.279	Drug Abuse and Addiction Research Programs	\$	121,109 \$	-
Health and Human Services, Department of	Direct	1 R03 DA048129-02	93.279	Drug Abuse and Addiction Research Programs		67,469	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	1 R21 DA052594-01 1 UG3 NS115108-01A1	93.279 93.279	Drug Abuse and Addiction Research Programs Drug Abuse and Addiction Research Programs		30,384 285,789	113,752
Health and Human Services, Department of	Direct	1K23DA051561-01A1	93.279	Drug Abuse and Addiction Research Programs		19,286	
Health and Human Services, Department of	Direct	1UG3DA050173-01	93.279	Drug Abuse and Addiction Research Programs		165,159	-
Health and Human Services, Department of	Direct	2 R01 DA039901-07	93.279	Drug Abuse and Addiction Research Programs		517,952	35,903
Health and Human Services, Department of	Direct	3 UH3DA050173-02S1	93.279	Drug Abuse and Addiction Research Programs		796,028	-
Health and Human Services, Department of	Direct	5 F31 DA047738-02	93.279	Drug Abuse and Addiction Research Programs Drug Abuse and Addiction Research Programs		31,483	-
Iealth and Human Services, Department of Iealth and Human Services, Department of	Direct Direct	5 F32 DA050416-02 5 K01 DA036681-05	93.279 93.279	Drug Abuse and Addiction Research Programs Drug Abuse and Addiction Research Programs		71,844 25,746	-
Itealth and Human Services, Department of	Direct	5 K01 DA044270-03	93.279	Drug Abuse and Addiction Research Programs		105,270	-
Health and Human Services, Department of	Direct	5 K01 DA044279-02	93.279	Drug Abuse and Addiction Research Programs		18,613	-
Health and Human Services, Department of	Direct	5 K01 DA049219 02	93.279	Drug Abuse and Addiction Research Programs		89,454	-
Health and Human Services, Department of	Direct	5 K08 DA048110-03	93.279	Drug Abuse and Addiction Research Programs		168,139	-

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		Type	Pass-1 brough Grantor					to Subrecipients
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								398,522
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								22,601
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		Direct		5 R01 DA039901-05				3,772
	Health and Human Services, Department of	Direct						-
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Edit Schwart         Space Sch	Health and Human Services, Department of	Direct		5 R01 DA042092-02	93.279	Drug Abuse and Addiction Research Programs	231,839	-
Initial sime strict, legend of strict, leg	Health and Human Services, Department of	Direct		5 R01 DA042779 05	93.279	Drug Abuse and Addiction Research Programs	348,404	-
	Health and Human Services, Department of	Direct		5 R01 DA042859-05	93.279	Drug Abuse and Addiction Research Programs	901,917	-
india       Set       Set <td< td=""><td>Health and Human Services, Department of</td><td>Direct</td><td></td><td>5 R01 DA043696-03</td><td>93.279</td><td>Drug Abuse and Addiction Research Programs</td><td>270,905</td><td>-</td></td<>	Health and Human Services, Department of	Direct		5 R01 DA043696-03	93.279	Drug Abuse and Addiction Research Programs	270,905	-
india       Set       Set <td< td=""><td>Health and Human Services, Department of</td><td>Direct</td><td></td><td>5 R01 DA044157-03</td><td>93.279</td><td>Drug Abuse and Addiction Research Programs</td><td>154,889</td><td>-</td></td<>	Health and Human Services, Department of	Direct		5 R01 DA044157-03	93.279	Drug Abuse and Addiction Research Programs	154,889	-
Halh and Isans Srive, Department         Dect         S 200 Med/40-00         92.70 Med/ansign Medice Medi		Direct		5 R01 DA044204-03	93.279		373,357	-
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Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of California-San Diego70405293.279 P102 Abuse and Addiction Research Programs24,659Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of Pittsburgh900731820293.279Drug Abuse and Addiction Research Programs29,590Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of Pittsburgh800000068 (132578-10)93.279Drug Abuse and Addiction Research Programs64,312Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of Wisconsin855K40093.279Drug Abuse and Addiction Research Programs64,346Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of Wisconsin855K40093.279Drug Abuse and Addiction Research Programs64,346Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of Wisconsin855K40093.279Drug Abuse and Addiction Research Programs93,991,9919Health and Human Services, Department of Pass-Through University of MisconsinPass-Through University of Pittsburgh85,991,99191,930Health and Human Services, Department of Pass-Through University of PittsburghPass-Through University of Pittsburgh85,991,99191,930Health and Human Services, Depar								-
Health and Human Services, Department of       Pass-Through University of California-San Diego       72012619       93.279       Drug Abuse and Addiction Research Programs       2,828         Health and Human Services, Department of       Pass-Through University of Minnesota       P007318202       93.279       Drug Abuse and Addiction Research Programs       29.39       29.39         Health and Human Services, Department of       Pass-Through University of Pittsburgh       AWD00000068 (132578-10)       93.279       Drug Abuse and Addiction Research Programs       64,312       -         Health and Human Services, Department of       Pass-Through University of Pittsburgh       S5K400       93.279       Drug Abuse and Addiction Research Programs       64,312       -         Health and Human Services, Department of       Pass-Through University of Wisconsin       S5K400       93.279       Drug Abuse and Addiction Research Programs       64,312       -         Health and Human Services, Department of       Pass-Through University of Wisconsin       S5K400       93.279       Drug Abuse and Addiction Research Programs       94,304         Health and Human Services, Department of       Pass-Through University of Wisconsin       S5K400       93.279       Drug Abuse and Addiction Research Programs       9,304         Health and Human Services, Department of       Pass-Through University of Wisconsin       Stender Services Control and Prevention Inves								-
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of MinnesotaP00731820293.279 93.279Drug Abuse and Addiction Research Programs29,590Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of WisconsinPass-Through University of Minnesota64,31264,312Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of Wisconsin855K40093.279Drug Abuse and Addiction Research Programs64,312Health and Human Services, Department of Health and Human Services, Department of Pass-Through Virginia Commonwealth UniversityFP0000224_SA00293.279Drug Abuse and Addiction Research Programs9,304Services, Department of Pass-Through Virginia Commonwealth UniversityFP0000224_SA00293.279Drug Abuse and Addiction Research Programs9,304Services, Department of Pass-Through Virginia Commonwealth UniversityFP000024_SA00293.279Drug Abuse and Addiction Research Programs9,304Services, Department of Pass-Through Virginia Commonwealth UniversityFP000024_SA002Services, Centers for Disease Control and Prevention Investigations and Centers for Disease Control and Prevention Investigations andServices, Centers for Disease Control and Prevention Investigations and				704052				-
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of PittsburghP00731820293.279 93.279Drug Abuse and Addiction Research Programs29,590Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of WisconsinPass-Through University of PittsburghAWD0000068 (132578-10)93.279Drug Abuse and Addiction Research Programs64,312Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of Wisconsin855K40093.279Drug Abuse and Addiction Research Programs9,304Health and Human Services, Department of Health and Human Services, Department of Pass-Through Virginia Commonwealth UniversityFP0000224_SA00293.279Drug Abuse and Addiction Research Programs9,304Services, Department of Pass-Through Virginia Commonwealth UniversityFP0000224_SA00293.279Drug Abuse and Addiction Research Programs9,304Services, Department of Pass-Through Virginia Commonwealth UniversityFP000024_SA002Services, Department of Pass-Chrol and Prevention Investigations and Centers for Disease Control and Prevention Investigations and Centers for Disease Control and Prevention Investigations andServices, Department of Pass-Through Virginia Common PassServices, Department				72012619	93.279	Drug Abuse and Addiction Research Programs	2,828	-
Health and Human Services, Department of Health and Human Services, Department of Pass-Through University of WisconsinAWD0000068 (132578-10) S55K40093.279 93.279Drug Abuse and Addiction Research Programs Programs64,312 54,545Health and Human Services, Department of Health and Human Services, Department of Human Services, Department of <br< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></br<>								-
Health and Human Services, Department of Health and Human Services, Department ofPass-Through University of Wisconsin855K40093.279Drug Abuse and Addiction Research Programs54,546Health and Human Services, Department ofPass-Through University of WisconsinFP0000224_SA00293.279Drug Abuse and Addiction Research Programs9,304Centers for Disease Control and Prevention Investigations andCenters for Disease Control and Prevention Investigations andS1,2								-
Health and Human Services, Department of       Pass-Through Virginia Commonwealth University       FP0000024_SA002       93.279       Drug Abuse and Addiction Research Programs       9,304         k       23,991,991       \$       1,2         Centers for Disease Control and Prevention Investigations and								-
Centers for Disease Control and Prevention Investigations and								-
Centers for Disease Control and Prevention Investigations and			,		,,,,,,,	e		\$ 1,201,591
-						Centers for Disease Control and Prevention Investigation		,201,091
	Health and Human Services Department of	Direct		5 U01 DP006265-03	93 282			\$
	ina trankii on ties, Department of			5 551 51 550205-05	15.205		φ (1,230)	-

Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Assistance Listing Number	Assistance Listing Program Title	Federal Expenditures	Passed-Throug to Subrecipient
lealth and Human Services, Department of	Direct		5 U01DP006489-02-00	93.283	Centers for Disease Control and Prevention Investigations and Technical Assistance Centers for Disease Control and Prevention Investigations and	775,048	-
ealth and Human Services, Department of	Direct		6 U01 DP006442 02-01	93.283	Technical Assistance	670,268	-
						\$ 1,444,080	\$ -
ealth and Human Services, Department of	Pass-Through Healthcore Inc.		Sub Contract	93.285	National Institutes of Health Pediatric Research Loan Repayment Program Discovery and Applied Research for Technological Innovations	\$ 9,266	s -
alth and Human Services, Department of	Direct		1 R01 EB028159-01	93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations	\$ 265,904	\$ 43,213
alth and Human Services, Department of	Direct		1 R21 EB026290-01A1	93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations		-
alth and Human Services, Department of	Direct		5 F32 EB029289-02	93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations		-
alth and Human Services, Department of	Direct		5 K01 EB028877-03	93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations		-
alth and Human Services, Department of alth and Human Services, Department of	Direct		5 K99 EB028840-02 5 R01 EB003320-24	93.286 93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations to Improve Human Health	84,048 331,798	-
alth and Human Services, Department of	Direct		5 R01 EB009910-09	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health		42,434
alth and Human Services, Department of	Direct		5 R01 EB016079-07	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health		-
ealth and Human Services, Department of	Direct		5 R01 EB020644-04	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health	958	-
alth and Human Services, Department of	Direct		5 R01 EB021155-0481	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health	291,853	-
ealth and Human Services, Department of	Direct		5 R01 EB022028-04	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health Discovery and Applied Research for Technological Innovations	240,349	-
alth and Human Services, Department of	Direct		5 R01 EB022033-04	93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations	57,029	-
alth and Human Services, Department of	Direct		5 R01 EB022075-034	93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations	(115,975)	-
alth and Human Services, Department of	Direct		5 R01 EB022075-06	93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations		-
alth and Human Services, Department of alth and Human Services, Department of	Direct		5 R01 EB022563-04 5 R01 EB023294-04	93.286 93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations to Improve Human Health	(63,959) 173,161	- 66,810
alth and Human Services, Department of	Direct		5 R01 EB023618-04	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health		
lth and Human Services, Department of	Direct		5 R01 EB028309-03		Discovery and Applied Research for Technological Innovations to Improve Human Health		-
lth and Human Services, Department of	Direct		5 R01 EB028775-02	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health	301,771	-
alth and Human Services, Department of	Direct		5 R01 EB030031-02	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health	114,276	-
alth and Human Services, Department of	Direct		5 R03 EB026526-02	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health Discovery and Applied Research for Technological Innovations	23,183	-
alth and Human Services, Department of	Direct		5 R03 EB027444 02	93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations	10,371	-
alth and Human Services, Department of	Direct		5 R21 EB024410-02	93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations	(2,498)	-
alth and Human Services, Department of	Direct		5 R21 EB027276-02	93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations		20,098
alth and Human Services, Department of	Direct		5 R21EB030208 02	93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations		28,838
alth and Human Services, Department of alth and Human Services, Department of	Direct		5 R25 EB019898-05 5 U01 EB026977-04	93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations to Improve Human Health	(1,134) 483,637	-
alth and Human Services, Department of	Direct		5 U01 EB028235-03	93.286 93.286	to Improve Human Health Discovery and Applied Research for Technological Innovations to Improve Human Health		-
alth and Human Services, Department of	Direct		T32 EB005582	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health		-
alth and Human Services, Department of	Pass-Through Michigan State University	ý	RC111834A	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health	91,267	-
alth and Human Services, Department of	Pass-Through PhotoSonoX LLC		Subcontract Agreement	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health	15,087	-
alth and Human Services, Department of	Pass-Through The University of Texas I				Discovery and Applied Research for Technological Innovations		

Cluster Title/Federal Grantor/Program	Type Pass-Through G	ntor Award Identifier	Assistance Listing Number	Assistance Listing Program Title	Federal Expenditures	Passed-Through to Subrecipients
Health and Human Services, Department of	Pass-Through University at Buffalo	R1080444	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health	1,572	-
Health and Human Services, Department of	Pass-Through University of Mississippi	66107990617	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health	(2,596)	-
Health and Human Services, Department of	Pass-Through University of Toledo	F-2020-13	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health	12,390	-
Health and Human Services, Department of	Pass-Through University of Wisconsin	000000357	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health	57,672	-
Health and Human Services, Department of	Pass-Through Wayne State University	WSU20008	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health Discovery and Applied Research for Technological Innovations	53,867	-
Health and Human Services, Department of	Pass-Through Wayne State University	WSU20043	93.286	Discovery and Applied Research for Technological Innovations to Improve Human Health	(8,269)	
Health and Human Services, Department of	Pass-Through Education Training and Research Associates	1TP2AH000065-01-00	93.297	Teenage Pregnancy Prevention Program	\$ 29,839	
Health and Human Services, Department of	Direct	5 U81 HP29300 07	93.300	National Center for Health Workforce Analysis PPHF 2018: Office of Smoking and Health-National State- Based Tobacco Control Programs-Financed in part by 2018	\$ 1,071,465	
Health and Human Services Department of	Pass-Through Michigan, State of, Health and Human Services, D	artment of E20213251-00 BK	93.305	Prevention and Public Health funds (PPHF)	\$ 73,763	s
Health and Human Services, Department of Health and Human Services, Department of	Direct	1 R01 MD016867 01	93.307	Minority Health and Health Disparities Research	\$ 14,681	s -
Health and Human Services, Department of	Direct	5 R01 MD011516-04	93.307	Minority Health and Health Disparities Research	607,953	-
Health and Human Services, Department of	Direct	5 R01 MD011570-06	93.307	Minority Health and Health Disparities Research	533,064	37,220
Health and Human Services, Department of	Direct	5 R01 MD011716-05	93.307	Minority Health and Health Disparities Research	894,729	618,769
Health and Human Services, Department of	Direct	5 R01 MD011721-05	93.307	Minority Health and Health Disparities Research	411,299	332,251
Health and Human Services, Department of	Direct	5 R01 MD013299-04	93.307	Minority Health and Health Disparities Research	489,612	-
Health and Human Services, Department of	Direct	5 R01 MD015024-02	93.307	Minority Health and Health Disparities Research	244,660	-
Health and Human Services, Department of	Direct	5 R03 MD012327-02	93.307	Minority Health and Health Disparities Research	50,021	
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	5 R21 MD012683-02 5 T37 MD001425-24	93.307 93.307	Minority Health and Health Disparities Research Minority Health and Health Disparities Research	126,946 43,433	34,887
Health and Human Services, Department of	Direct	5 U01 MD010579-05	93.307	Minority Health and Health Disparities Research	252,519	-
Health and Human Services, Department of	Pass-Through MEI Research, Ltd.	STTR Phase II	93.307	Minority Health and Health Disparities Research	160,780	
Health and Human Services, Department of	Pass-Through Michigan State University	RC106388E	93.307	Minority Health and Health Disparities Research	51,345	-
Health and Human Services, Department of	Pass-Through University of Illinois-Urbana-Champaign	079243-15822	93.307	Minority Health and Health Disparities Research	9,339	-
Health and Human Services, Department of	Pass-Through University of New Mexico	3RDF3	93.307	Minority Health and Health Disparities Research	5,579	-
Health and Human Services, Department of	Pass-Through University of Pennsylvania	578811 PO#4467621	93.307	Minority Health and Health Disparities Research	423,643	-
Health and Human Services, Department of	Pass-Through University of Utah	10044779-06	93.307	Minority Health and Health Disparities Research	8,011	-
Health and Haman Samiras Department of	Direct	1 DD2 DV 112750 01	02.210	Trees NULD correct Summert	\$ 4,327,614 \$ 616,387	
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	1 DP2 DK113750-01 1 R03 OD030599-01	93.310 93.310	Trans-NIH Research Support Trans-NIH Research Support	\$ 616,387 144,745	5 -
Health and Human Services, Department of	Direct	1 R03OD030605 01	93.310	Trans-NIH Research Support	71,788	-
Health and Human Services, Department of	Direct	1 U18 TR003812-01	93.310	Trans-NIH Research Support	71,387	-
Health and Human Services, Department of	Direct	1 U2C ES026553-01	93.310	Trans-NIH Research Support	1,755,630	-
Health and Human Services, Department of	Direct	3 OT2 OD028191-01S3	93.310	Trans-NIH Research Support	673,872	-
Health and Human Services, Department of	Direct	3 OT2 OD030538-01S1	93.310	Trans-NIH Research Support	314,423	118,155
Health and Human Services, Department of	Direct	3 R25 GM111837-04S1	93.310	Trans-NIH Research Support	8,125	-
Health and Human Services, Department of	Direct	3OT2OD024907-01S2	93.310	Trans-NIH Research Support	(3,672)	-
Health and Human Services, Department of	Direct	5 R01 ES026877-04	93.310	Trans-NIH Research Support	16,636	-
Health and Human Services, Department of	Direct	5 R01 HD086676-03S1	93.310	Trans-NIH Research Support	116,072	20,709
Health and Human Services, Department of	Direct	5 U01 CA235487-03	93.310	Trans-NIH Research Support	458,086	160,697
Health and Human Services, Department of	Direct Direct	5 U01 GM125274-04	93.310	Trans-NIH Research Support	552,123	-
Health and Human Services, Department of Health and Human Services, Department of	Direct	5 U24 DK112342-05 5 U2CES030164-04	93.310 93.310	Trans-NIH Research Support Trans-NIH Research Support	1,105,580 1,167,897	-
Health and Human Services, Department of	Direct	5 UM1 NS118922 02	93.310	Trans-NIH Research Support	228,639	-
Health and Human Services, Department of	Pass-Through Duke University	A03-2345	93.310	Trans-NIH Research Support	10,142	-
Health and Human Services, Department of	Pass-Through Duke University	A03-3807	93.310	Trans-NIH Research Support	79,157	-
Health and Human Services, Department of	Pass-Through Michigan State University	RC 108889UM	93.310	Trans-NIH Research Support	(187)	-
Health and Human Services, Department of	Pass-Through Michigan State University	RC108889UM	93.310	Trans-NIH Research Support	113,788	-
Health and Human Services, Department of	Pass-Through Michigan State University	RC108889UM	93.310	Trans-NIH Research Support	349,262	-
Health and Human Services, Department of	Pass-Through Michigan State University	RG100983-2	93.310	Trans-NIH Research Support	25,805	-
Health and Human Services, Department of	Pass-Through Michigan State University	RG100983-UofM-GOODRICH	93.310	Trans-NIH Research Support	7,960	-
Health and Human Services, Department of	Pass-Through Northeastern University	500669-78051	93.310	Trans-NIH Research Support	198,835	-
Health and Human Services, Department of	Pass-Through Northeastern University	500717-78050	93.310	Trans-NIH Research Support	533,516	-
Health and Human Services, Department of	Pass-Through Purdue University Pass-Through Purdue University	11000549-014	93.310	Trans-NIH Research Support	67,587 543,723	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Purdue University Pass-Through The President and Fellows of Harvard College aka	arvard University 153056.5113862.0612	93.310 93.310	Trans-NIH Research Support Trans-NIH Research Support	543,723 17,295	-
Health and Human Services, Department of	Pass-Through The University of Texas Health Science Center at		93.310	Trans-NIH Research Support	8,205	-
Health and Human Services, Department of	Pass-Through University of Ghana	9U54DK116913-10 Amend no #	93.310	Trans-NIH Research Support	27,607	-
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel Hill	5117856	93.310	Trans-NIH Research Support	38,246	_
Health and Human Services, Department of	Pass-Through University of Pittsburgh	AWD00001053 (134698-5)	93.310	Trans-NIH Research Support	30,070	-
Health and Human Services, Department of	Pass-Through University of Southern California	136753158	93.310	Trans-NIH Research Support	26,989	-
Health and Human Services, Department of	Pass-Through Vanderbilt University Medical Center	VUMC 58159	93.310	Trans-NIH Research Support	16,850	-
	Pass-Through Vanderbilt University Medical Center	THE COLOR	02 210	Trans-NIH Research Support	16 510	_
Health and Human Services, Department of	Fass-Through valueron University Medical Center	VUMC 58159	93.310	Trans-INITi Research Support	\$ 9,409,078	\$ 299,561

Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Assistance Listing Number	Assistance Listing Program Title	Federal Expendi		ssed-Throu Subrecipien
*		*			Epidemiology and Laboratory Capacity for Infectious Diseases			
Health and Human Services, Department of	Pass-Through Michigan, State of,	Health and Human Services, Department of	E20214765-00 CG	93.323	(ELC)		5,536 \$	-
lealth and Human Services, Department of	Direct		1 R21 TR003185 01A1	93.350	National Center for Advancing Translational Sciences	\$ 2	2,621 \$	-
lealth and Human Services, Department of	Direct		5 KL2 TR002241-05	93.350	National Center for Advancing Translational Sciences	1,494	.231	-
Health and Human Services, Department of	Direct		5 U01 TR002013-03		National Center for Advancing Translational Sciences		,894	7,38
Health and Human Services, Department of	Direct		5 U01 TR002488-04		National Center for Advancing Translational Sciences		3,427	267,84
Itealth and Human Services, Department of	Direct		5 U01 TR003409-02		National Center for Advancing Translational Sciences		9,427 9,713	94,53
					e			
Iealth and Human Services, Department of	Direct		5 UL1 TR002240-05		National Center for Advancing Translational Sciences	9,953		20,78
Iealth and Human Services, Department of	Direct		TL1 TR002242		National Center for Advancing Translational Sciences		2,475	-
lealth and Human Services, Department of	Pass-Through Mayo Clinic		THE-254500/PO #66694845		National Center for Advancing Translational Sciences		2,290)	-
lealth and Human Services, Department of	Pass-Through Mayo Clinic		THE-254500-01	93.350	National Center for Advancing Translational Sciences	261	,004	-
ealth and Human Services, Department of	Pass-Through University of Pittsbu	urgh	AWD00000243 (132627-31)	93.350	National Center for Advancing Translational Sciences	(3	,299)	-
ealth and Human Services, Department of	Pass-Through University of Pittsbu	urgh	AWD00000243 (134445-31)	93.350	National Center for Advancing Translational Sciences	29	,868	
ealth and Human Services, Department of	Pass-Through University of Washi		UWSC12197		National Center for Advancing Translational Sciences		,446	
ealth and Human Services, Department of	Pass-Through Virginia Commonwo		FP00010200 SA001		National Center for Advancing Translational Sciences		,114	_
ealth and Human Services, Department of	Pass-Through Washington Univers		UWSC11354		National Center for Advancing Translational Sciences		5,211	
carui and Human Services, Department of	Fass-Through washington Univers	sity in St. Louis	0w3011354	95.550	National Center for Advancing Translational Sciences			200.0
	D:			02.251		\$ 13,508		390,5
ealth and Human Services, Department of	Direct		1 S10 OD026825-01A1		Research Infrastructure Programs		2,041 \$	
ealth and Human Services, Department of	Direct		1 S10 OD028456 01A		Research Infrastructure Programs	450	),000	
alth and Human Services, Department of	Direct		1S10OD026738-01	93.351	Research Infrastructure Programs	350	),000	
alth and Human Services, Department of	Direct		5 R21 OD024789-02	93.351	Research Infrastructure Programs	39	,305	2,
alth and Human Services, Department of	Pass-Through North Carolina State	e University	2018-0522-01	93.351	Research Infrastructure Programs		,781	
							2,127 \$	2,
alth and Human Services, Department of	Direct		1 U01 CA232827-01A1	93.353	21st Century Cures Act - Beau Biden Cancer Moonshot		,718 \$	2,
						• • • • •		59,
alth and Human Services, Department of	Direct		3 U01 DE029255 01S1		21st Century Cures Act - Beau Biden Cancer Moonshot		,077	39,
alth and Human Services, Department of	Direct		4 U01CA224145-02		21st Century Cures Act - Beau Biden Cancer Moonshot		,639)	
alth and Human Services, Department of	Direct		5 U01 CA254822-02		21st Century Cures Act - Beau Biden Cancer Moonshot	418	8,069	36,
alth and Human Services, Department of	Direct		5 U01CA224145-03	93.353	21st Century Cures Act - Beau Biden Cancer Moonshot	77	,136	
alth and Human Services, Department of	Pass-Through Dana-Farber Cancer	r Institute	1204003	93.353	21st Century Cures Act - Beau Biden Cancer Moonshot	33	,272	
alth and Human Services, Department of	Pass-Through Dana-Farber Cancer		124002		21st Century Cures Act - Beau Biden Cancer Moonshot		,660	
alth and Human Services, Department of	Pass-Through Magee Womens Res		6800		21st Century Cures Act - Beau Biden Cancer Moonshot		,691	
	Pass-Through University of Minne		H006354701		21st Century Cures Act - Beau Biden Cancer Moonshot 21st Century Cures Act - Beau Biden Cancer Moonshot		2,868	
alth and Human Services, Department of							.,808 ),882	
alth and Human Services, Department of	Pass-Through University of Minne	esota	H006354701	93.353	21st Century Cures Act - Beau Biden Cancer Moonshot			
						\$ 1,795	5,734 \$	95,2
					Public Health Emergency Response: Cooperative Agreement			
alth and Human Services, Department of	Pass-Through Michigan, State of,	Health and Human Services, Department of	E20203340-00 Project BV		for Emergency Response: Public Health Crisis Response	\$	554 \$	
alth and Human Services, Department of	Direct		4 UF1HP26979-03-07	93.359	Nurse Education, Practice Quality and Retention Grants		,200 \$	
alth and Human Services, Department of	Direct		5 F31 NR018784-02	93.361	Nursing Research	\$ 37	,849 \$	
alth and Human Services, Department of	Direct		5 P20 NR015331-05		Nursing Research		.036	
alth and Human Services, Department of	Direct		5 R01 NR013658-07		Nursing Research		2,022	66
alth and Human Services, Department of	Direct		5 R01 NR016093-05		Nursing Research		3,808	00
								20
alth and Human Services, Department of	Direct		5 R01 NR016123-05		Nursing Research		,252	20
alth and Human Services, Department of	Direct		5 R01 NR017096-05		Nursing Research		2,594	140
alth and Human Services, Department of	Direct		5 R01 NR018830-02	93.361	Nursing Research	284	,318	138
alth and Human Services, Department of	Direct		5 R21 NR016332-02	93.361	Nursing Research		687	
alth and Human Services, Department of	Direct		5 R21 NR016802-02	93.361	Nursing Research	71	,066	
alth and Human Services, Department of	Direct		5 R21 NR016930-02		Nursing Research		,609	4
alth and Human Services, Department of	Direct		T32 NR016914		Nursing Research		5,517	
			A377363					
alth and Human Services, Department of	Pass-Through Emory University				Nursing Research		,184	
lth and Human Services, Department of	Pass-Through Indiana University		IN4679348UM		Nursing Research		9,918	
alth and Human Services, Department of	Pass-Through Michigan State Univ		RC110324UM		Nursing Research		3,650	
lth and Human Services, Department of	Pass-Through Michigan State Univ	versity	RC111387C	93.361	Nursing Research	163	,471	
alth and Human Services, Department of	Pass-Through Wayne State Univer	rsity	WSU19027	93.361	Nursing Research	(1	,539)	
						\$ 3,480	,442 \$	370
					Title: Multiple Approaches to Support Young Breast Cancer	· · · · · · · · · · · · · · · · · · ·		
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Health and Human Services, Department of Pass-Through University of Minnesota N006662505 93.39 Cancer Cause and Prevention Research 3,	
Health and Human Services, Department of Pass-Through University of North Carolin at Chapel Hill 5106265 93.39 Cancer Cause and Prevention Research 2, Health and Human Services, Department of Pass-Through University of North Carolin at Chapel Hill 5106265 93.39 Cancer Cause and Prevention Research 2,	
Haihi and Human Services, Department of Pass-Through University of Pittsburgh (Diversity of Pittsburgh) Adv (Diversity of Pittsburgh) (Dittsburgh) (Diversity of Pittsburgh) (Diversity of Pittsburgh) (	
Haihi and Human Services, Department of Pass-Through University of Pittsburgh (CNVA00057077 (13055-1)) 93.39 Cancer Cause and Prevention Research 3,	
Health and Human Services, Department of Pass-Through University of Pittsburgh (CNVA000577) (130557) 93.393 Cancer Cause and Prevention Research 9,	
Health and Human Services, Department of Pass-Through University of South Carolina 18-3419 93.393 Cancer Cause and Prevention Research (2,	
Health and Human Services, Department of Pass-Through University of Utah 10045740-06 93.39 Cancer Cause and Prevention Research 26,	
Health and Human Services, Department of Pass-Through University of Utah 10055606-01 93.393 Cancer Cause and Prevention Research 31,	
Health and Human Services, Department of Pass-Through University of Wisconsin 000000958 93.393 Cancer Cause and Prevention Research 14,	

Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Assistance Listi Number	ng Assistance Listing Program Title	Feder	al Expenditures to f	assed-Through Subrecipients
Health and Human Services, Department of	Pass-Through University of Wisconsin	0000001039	93.393	Cancer Cause and Prevention Research	reuer	3,041	subrecipients
Health and Human Services, Department of	Pass-Through Virginia Commonwealth University	PD304087-SC106363	93.393	Cancer Cause and Prevention Research		(23,947)	_
× 1	5 5 5				\$	9,341,687 \$	1,311,828
Health and Human Services, Department of	Direct	3 U01 CA086400-20S1	93.394	Cancer Detection and Diagnosis Research	\$	639,980 \$	283,077
Health and Human Services, Department of	Direct	5 R01 CA160254-09	93.394	Cancer Detection and Diagnosis Research		363,276	63,891
Health and Human Services, Department of	Direct	5 R01 CA186769-05	93.394	Cancer Detection and Diagnosis Research		(433)	-
Health and Human Services, Department of	Direct	5 R01 CA190299-05	93.394	Cancer Detection and Diagnosis Research		219,583	116,775
Health and Human Services, Department of	Direct	5 R01 CA194536-05	93.394	Cancer Detection and Diagnosis Research		332,409	-
Health and Human Services, Department of	Direct	5 R01 CA208335-05	93.394	Cancer Detection and Diagnosis Research		598,296	-
Health and Human Services, Department of	Direct	5 R01 CA210237-05	93.394	Cancer Detection and Diagnosis Research		391,221	-
Health and Human Services, Department of	Direct	5 R01 CA211217-04	93.394	Cancer Detection and Diagnosis Research		481,144	-
Health and Human Services, Department of	Direct	5 R01 CA214981 04	93.394	Cancer Detection and Diagnosis Research		383,816	-
Health and Human Services, Department of	Direct	5 R01 CA215574-04	93.394	Cancer Detection and Diagnosis Research		354,022	82,967
Health and Human Services, Department of	Direct	5 R01 CA217954-04	93.394	Cancer Detection and Diagnosis Research		475,042	-
Health and Human Services, Department of	Direct	5 R01 CA238023 03	93.394	Cancer Detection and Diagnosis Research		568,867	-
Health and Human Services, Department of	Direct	5 R01 CA249851-02	93.394	Cancer Detection and Diagnosis Research		133,363	-
Health and Human Services, Department of	Direct	5 R01 CA250214-02	93.394	Cancer Detection and Diagnosis Research		343,039	-
Health and Human Services, Department of	Direct	5 R01 CA250499-02	93.394	Cancer Detection and Diagnosis Research		515,640	-
Health and Human Services, Department of	Direct	5 R01CA240706-02	93.394	Cancer Detection and Diagnosis Research		549,253	-
Health and Human Services, Department of	Direct	5 R21 CA245597-02	93.394	Cancer Detection and Diagnosis Research		183,511	-
Health and Human Services, Department of	Direct	5 R33 CA229023 03	93.394	Cancer Detection and Diagnosis Research		368,970	-
Health and Human Services, Department of	Direct	5 R35 CA197701-06	93.394	Cancer Detection and Diagnosis Research		817,492	-
Health and Human Services, Department of	Direct	5 R35 CA231996-04	93.394	Cancer Detection and Diagnosis Research		959,170	-
Health and Human Services, Department of	Direct	5 R37 CA214955-05	93.394	Cancer Detection and Diagnosis Research		569,344	198,428
Health and Human Services, Department of	Direct	5 R37 CA222829-03	93.394	Cancer Detection and Diagnosis Research		524,348	-
Health and Human Services, Department of	Direct	5 R50 CA 221808 - 03	93.394	Cancer Detection and Diagnosis Research		70,784	11 516
Health and Human Services, Department of	Direct	5 U01 CA166104-08 5 U01 CA183848-06	93.394	Cancer Detection and Diagnosis Research		83,759	11,516
Health and Human Services, Department of	Direct		93.394	Cancer Detection and Diagnosis Research		(11,856)	-
Health and Human Services, Department of	Direct Direct	5 U01 CA189291-04 5 U01 CA195599-05	93.394 93.394	Cancer Detection and Diagnosis Research Cancer Detection and Diagnosis Research		(21,145) 20,681	-
Health and Human Services, Department of			93.394				21,512
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	5 U01 CA214170-05 5 U01 CA216459-04	93.394	Cancer Detection and Diagnosis Research Cancer Detection and Diagnosis Research		447,741 468,805	21,512
Health and Human Services, Department of	Direct	5 U01 CA210459-04	93.394	Cancer Detection and Diagnosis Research		524,320	290,721
Health and Human Services, Department of	Direct	5 U01 CA223753-04 5 U01 CA230669-04	93.394	Cancer Detection and Diagnosis Research		712,503	290,721
Health and Human Services, Department of	Direct	5 U01 CA232931 03	93.394	Cancer Detection and Diagnosis Research		496,925	-
Health and Human Services, Department of	Direct	5 U24 CA210967-05	93.394	Cancer Detection and Diagnosis Research		575,391	
Health and Human Services, Department of	Direct	5 U24 CA237683 03	93.394	Cancer Detection and Diagnosis Research		718,216	_
Health and Human Services, Department of	Direct	7 R01 CA208236 04	93.394	Cancer Detection and Diagnosis Research		434,050	154,846
Health and Human Services, Department of	Pass-Through Case Western Reserve University	RES514682	93.394	Cancer Detection and Diagnosis Research		(453)	154,840
Health and Human Services, Department of	Pass-Through Columbia University	1(GG012885-01)	93.394	Cancer Detection and Diagnosis Research		46,157	_
Health and Human Services, Department of	Pass-Through Dana-Farber Cancer Institute	1308602	93.394	Cancer Detection and Diagnosis Research		17,132	-
Health and Human Services, Department of	Pass-Through Hutchinson, Fred, Cancer Research Center	0001037925/220177	93.394	Cancer Detection and Diagnosis Research		822,146	-
Health and Human Services, Department of	Pass-Through Hutchinson, Fred, Cancer Research Center	0001039237/224533	93.394	Cancer Detection and Diagnosis Research		22,347	-
Health and Human Services, Department of	Pass-Through Hutchinson, Fred, Cancer Research Center	220177/0001000124	93.394	Cancer Detection and Diagnosis Research		(66,603)	-
Health and Human Services, Department of	Pass-Through Hutchinson, Fred, Cancer Research Center	224533/0001006856	93.394	Cancer Detection and Diagnosis Research		4,299	-
Health and Human Services, Department of	Pass-Through Hutchinson, Fred, Cancer Research Center	Subaward No. 0000961971	93.394	Cancer Detection and Diagnosis Research		3,767	-
Health and Human Services, Department of	Pass-Through Johns Hopkins University	2004268666	93.394	Cancer Detection and Diagnosis Research		2,147	-
Health and Human Services, Department of	Pass-Through Johns Hopkins University	2004268666	93.394	Cancer Detection and Diagnosis Research		45,269	-
Health and Human Services, Department of	Pass-Through Research Institute at Nationwide Children's Hospital	700110-0320-03	93.394	Cancer Detection and Diagnosis Research		10,229	-
Health and Human Services, Department of	Pass-Through Research Institute at Nationwide Children's Hospital	700225-0321-00	93.394	Cancer Detection and Diagnosis Research		43,431	-
Health and Human Services, Department of	Pass-Through Research Institute at Nationwide Children's Hospital	700225-0322-00	93.394	Cancer Detection and Diagnosis Research		40,120	-
Health and Human Services, Department of	Pass-Through Sloan-Kettering Cancer Institute	Amend #3 PO#BD522149	93.394	Cancer Detection and Diagnosis Research		25,168	-
Health and Human Services, Department of	Pass-Through The University of Texas MD Anderson Cancer Center	3001270326	93.394	Cancer Detection and Diagnosis Research		11,895	-
Health and Human Services, Department of	Pass-Through The University of Texas Southwestern Medical Center	GMO 180111 PO# 000001422B	93.394	Cancer Detection and Diagnosis Research		36,462	-
Health and Human Services, Department of	Pass-Through The University of Texas Southwestern Medical Center	GMO191109 PO0000001628B	93.394	Cancer Detection and Diagnosis Research		110,181	-
Health and Human Services, Department of	Pass-Through The University of Texas Southwestern Medical Center	GMO191109 PO000001628A	93.394	Cancer Detection and Diagnosis Research		16,664	-
Health and Human Services, Department of	Pass-Through University of Akron	542717-UM	93.394	Cancer Detection and Diagnosis Research		36,911	-
Health and Human Services, Department of	Pass-Through University of California-San Diego	112292279 (MP S#9002291)	93.394	Cancer Detection and Diagnosis Research		196,243	-
Health and Human Services, Department of	Pass-Through University of Pittsburgh	CNVA00047722 (134277-2)	93.394	Cancer Detection and Diagnosis Research		58,456	-
Health and Human Services, Department of	Pass-Through University of Washington	UWSC12100 BPO#50315	93.394	Cancer Detection and Diagnosis Research		38,478	-
Health and Human Services, Department of	Pass-Through University of Washington	UWSC8459	93.394	Cancer Detection and Diagnosis Research		54,654	-
Health and Human Services, Department of	Pass-Through Virginia Polytechnic Institute and State University	432045-19337	93.394	Cancer Detection and Diagnosis Research		39,050	-
					\$	15,905,677 \$	1,223,733
Health and Human Services, Department of	Direct	1 R21 CA252010 01A1	93.395	Cancer Treatment Research	\$	5,740 \$	-
Health and Human Services, Department of	Direct	1 R21 CA252428-01	93.395	Cancer Treatment Research		133,219	-
Health and Human Services, Department of	Direct	1 R21 CA260684-01	93.395	Cancer Treatment Research		13,933	-
Health and Human Services, Department of	Direct	1 R37 CA258346 01	93.395	Cancer Treatment Research		176,724	-
Health and Human Services, Department of	Direct	5 P01 CA059827-20	93.395	Cancer Treatment Research		(97)	-
Health and Human Services, Department of	Direct	5 R00 - CA197672-05	93.395	Cancer Treatment Research		90,305	-
Health and Human Services, Department of	Direct	5 R00 CA194163-05	93.395	Cancer Treatment Research		(5,147)	-
			02.205			122 596	
Health and Human Services, Department of Health and Human Services, Department of	Direct	5 R01 CA140667-10 5 R01 CA160467-10	93.395 93.395	Cancer Treatment Research Cancer Treatment Research		133,586 356,390	16,063

		А	ssistance Listi	ing	P	assed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures to	
Health and Human Services, Department of	Direct	5 R01 CA181654-06	93.395	Cancer Treatment Research	117,955	-
Health and Human Services, Department of	Direct	5 R01 CA188252-06	93.395	Cancer Treatment Research	599,580	-
Health and Human Services, Department of	Direct	5 R01 CA190498-06	93.395	Cancer Treatment Research	83,447	-
Health and Human Services, Department of	Direct Direct	5 R01 CA193690-05 5 R01 CA197780-05	93.395 93.395	Cancer Treatment Research Cancer Treatment Research	25,120 374,122	25,702
Health and Human Services, Department of Health and Human Services, Department of	Direct	5 R01 CA197780-05 5 R01 CA200660-05	93.393	Cancer Treatment Research	239,437	25,702
Health and Human Services, Department of	Direct	5 R01 CA201204-03	93.395	Cancer Treatment Research	27,467	-
Health and Human Services, Department of	Direct	5 R01 CA207272-05	93.395	Cancer Treatment Research	78,240	-
Health and Human Services, Department of	Direct	5 R01 CA208267-04	93.395	Cancer Treatment Research	623,916	-
Health and Human Services, Department of	Direct	5 R01 CA211016-05	93.395	Cancer Treatment Research	517,443	-
Health and Human Services, Department of	Direct	5 R01 CA213214 03	93.395	Cancer Treatment Research	488,346	-
Health and Human Services, Department of	Direct	5 R01 CA215758-05	93.395	Cancer Treatment Research	597,890	
Health and Human Services, Department of	Direct	5 R01 CA217156-04	93.395	Cancer Treatment Research	312,451	1,719
Health and Human Services, Department of	Direct	5 R01 CA219345-05	93.395	Cancer Treatment Research	694,090 447 704	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	5 R01 CA220199-04 5 R01 CA226759-03	93.395 93.395	Cancer Treatment Research Cancer Treatment Research	447,794 417,076	-
Health and Human Services, Department of	Direct	5 R01 CA233487-02	93.395	Cancer Treatment Research	7,633	-
Health and Human Services, Department of	Direct	5 R01 CA23576-02	93.395	Cancer Treatment Research	251,678	10,673
Health and Human Services, Department of	Direct	5 R01 CA240514-02	93.395	Cancer Treatment Research	407,516	-
Health and Human Services, Department of	Direct	5 R01 CA240515-02	93.395	Cancer Treatment Research	406,283	-
Health and Human Services, Department of	Direct	5 R01 CA241764-03	93.395	Cancer Treatment Research	437,437	-
Health and Human Services, Department of	Direct	5 R01 CA244254-02	93.395	Cancer Treatment Research	435,502	-
Health and Human Services, Department of	Direct	5 R01 CA244509-02	93.395	Cancer Treatment Research	676,835	-
Health and Human Services, Department of	Direct	5 R01 CA249211-02	93.395	Cancer Treatment Research	235,616	7,307
Health and Human Services, Department of	Direct	5 R01 CA251198 02	93.395	Cancer Treatment Research Cancer Treatment Research	294,304	-
Health and Human Services, Department of	Direct Direct	5 R01 CA251245-02 5 R01CA217141-05	93.395 93.395	Cancer Treatment Research	361,599 484,965	34,518 222,352
Health and Human Services, Department of Health and Human Services, Department of	Direct	5 R01CA248310 02	93.395	Cancer Treatment Research	484,903	222,332
Health and Human Services, Department of	Direct	5 R21 CA226962-02	93.395	Cancer Treatment Research	13,239	-
Health and Human Services, Department of	Direct	5 R21 CA234760-02	93.395	Cancer Treatment Research	108,326	11,899
Health and Human Services, Department of	Direct	5 R37 CA222215-02	93.395	Cancer Treatment Research	29,546	-
Health and Human Services, Department of	Direct	5 R37 CA237421-02	93.395	Cancer Treatment Research	235,398	-
Health and Human Services, Department of	Direct	5 R50CA251960 02	93.395	Cancer Treatment Research	117,301	-
Health and Human Services, Department of	Direct	5 U01 CA216449-05	93.395	Cancer Treatment Research	415,188	
Health and Human Services, Department of	Direct	5 U01 CA229437-04	93.395	Cancer Treatment Research	640,662	525,725
Health and Human Services, Department of	Direct Pass-Through Case Western Reserve University	5 UG1 CA233160-03	93.395	Cancer Treatment Research	732,159	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Case Western Reserve University	RES513951 RES514400	93.395 93.395	Cancer Treatment Research Cancer Treatment Research	14,777 15,569	-
Health and Human Services, Department of	Pass-Through Colorado State University	G-33008-1	93.395	Cancer Treatment Research	(243)	-
Health and Human Services, Department of	Pass-Through ECOG-ACRIN Medical Research Foundation, Inc	2UG1CA189828-06-MICH3	93.395	Cancer Treatment Research	12,167	-
Health and Human Services, Department of	Pass-Through Emory University	T791626	93.395	Cancer Treatment Research	159,897	-
Health and Human Services, Department of	Pass-Through Indiana University	IN4684921UM	93.395	Cancer Treatment Research	240,230	-
Health and Human Services, Department of	Pass-Through Massachusetts General Hospital	Subaward Agreement No. 235469	93.395	Cancer Treatment Research	174,627	-
Health and Human Services, Department of	Pass-Through Mekanistic Therapeutics LLC	2R44CA213715	93.395	Cancer Treatment Research	51,584	-
Health and Human Services, Department of	Pass-Through Moffitt Cancer Center	10-20692-99-01-G1	93.395	Cancer Treatment Research	168,682	-
Health and Human Services, Department of	Pass-Through Moffitt Cancer Center	10-20750-99-01-G1/110856139	93.395	Cancer Treatment Research	173,498	-
Health and Human Services, Department of	Pass-Through Ohio State University, The	60067041/RF01531328	93.395	Cancer Treatment Research Cancer Treatment Research	48 28,684	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Ohio State University, The Pass-Through Oregon Health and Science University	6007781/SPC?1000004196 1005019 UMI Leja	93.395 93.395	Cancer Treatment Research	(51,795)	-
Health and Human Services, Department of	Pass-Through Oregon Health and Science University	1013080 UMICHIGAN	93.395	Cancer Treatment Research	51,766	-
Health and Human Services, Department of	Pass-Through Oregon Health and Science University	1013080 UMICHIGAN	93.395	Cancer Treatment Research	18,064	-
Health and Human Services, Department of	Pass-Through Oregon Health and Science University	1013080-014 UMICHIGAN	93.395	Cancer Treatment Research	29,155	-
Health and Human Services, Department of	Pass-Through Purdue University	11000501-004	93.395	Cancer Treatment Research	24,003	-
Health and Human Services, Department of	Pass-Through Rutgers University	0768	93.395	Cancer Treatment Research	35,194	-
Health and Human Services, Department of	Pass-Through Sarcoma Alliance for Research Through Collaboration (SA		93.395	Cancer Treatment Research	35,886	-
Health and Human Services, Department of	Pass-Through The Children's Hospital of Philadelphia	FP00026529_SUB466_02	93.395	Cancer Treatment Research	7,691	-
Health and Human Services, Department of	Pass-Through The Children's Hospital of Philadelphia	FP00026529_SUB708_01	93.395	Cancer Treatment Research	7,754	-
Health and Human Services, Department of	Pass-Through The Icahn School of Medicine at Mount Sinai (ISMMS)	0254-3871-4609	93.395	Cancer Treatment Research	18,139	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through The Icahn School of Medicine at Mount Sinai (ISMMS) Pass-Through University of Notre Dame, The	0254-3881-4609 203176UM	93.395 93.395	Cancer Treatment Research Cancer Treatment Research	457,772 152,044	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through University of Notre Dame, The	2031760M 203234UM	93.395	Cancer Treatment Research	82,347	-
Health and Human Services, Department of	Pass-Through University of Notre Dame, The	203531UM	93.395	Cancer Treatment Research	44,282	-
Health and Human Services, Department of	Pass-Through University of South Florida	6201-1216-00-В	93.395	Cancer Treatment Research	30,294	-
Health and Human Services, Department of	Pass-Through University of South Florida	6201-1216-00-B	93.395	Cancer Treatment Research	14,266	-
Health and Human Services, Department of	Pass-Through Van Andel Research Institute	40502A-1	93.395	Cancer Treatment Research	7,573	
					\$ 15,406,056 \$	855,958
Health and Human Services, Department of	Direct	1 R01 CA247516-01A1	93.396	Cancer Biology Research	\$ 300,207 \$	
Health and Human Services, Department of	Direct	1 R21 CA225493-01A1	93.396	Cancer Biology Research	215,591	17,227
Health and Human Services, Department of	Direct	3 R01 CA217510-05S1	93.396	Cancer Biology Research	684,079	- 7 192
Health and Human Services, Department of Health and Human Services, Department of	Direct	5 P01 CA093900-14 5 P01 CA093000 17	93.396	Cancer Biology Research Cancer Biology Research	26,084	7,182
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	5 P01 CA093900-17 5 R01 CA071699-22	93.396 93.396	Cancer Biology Research	1,135,538 404,576	128,164
reason and runnan bervices, Department of	Direct	5 K01 CR0/1077-22	15.570	cancer biology resources	-01,070	-

				Assistance List				Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal	Expenditures to	o Subrecipients
Health and Human Services, Department of	Direct		5 R01 CA107469-15	93.396	Cancer Biology Research		269,343	-
Health and Human Services, Department of	Direct		5 R01 CA1090554-05	93.396	Cancer Biology Research		23,508	-
Health and Human Services, Department of	Direct		5 R01 CA125577-13	93.396	Cancer Biology Research		288,586	-
Health and Human Services, Department of	Direct		5 R01 CA148828-10	93.396	Cancer Biology Research		163,965	-
Health and Human Services, Department of	Direct		5 R01 CA151588-10	93.396	Cancer Biology Research		300,280	-
Health and Human Services, Department of	Direct		5 R01 CA156744-10	93.396	Cancer Biology Research		338,477	-
Health and Human Services, Department of	Direct		5 R01 CA187903-05	93.396	Cancer Biology Research		218,891	-
Health and Human Services, Department of	Direct		5 R01 CA190384-05	93.396	Cancer Biology Research		19,043	-
Health and Human Services, Department of	Direct		5 R01 CA193136-05	93.396	Cancer Biology Research		4,516	-
Health and Human Services, Department of	Direct		5 R01 CA196018-05	93.396 93.396	Cancer Biology Research		207,403	-
Health and Human Services, Department of	Direct		5 R01 CA196604-05		Cancer Biology Research		14,357	-
Health and Human Services, Department of	Direct		5 R01 CA198074-05	93.396	Cancer Biology Research		27,554	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 R01 CA202018-05	93.396	Cancer Biology Research		188,517	-
Health and Human Services, Department of	Direct		5 R01 CA204969-05	93.396	Cancer Biology Research		235,520	-
	Direct		5 R01 CA214384-10	93.396 93.396	Cancer Biology Research Cancer Biology Research		456,601	-
Health and Human Services, Department of	Direct		5 R01 CA214911-04	93.396			600,386	-
Health and Human Services, Department of	Direct		5 R01 CA215596-05	93.396	Cancer Biology Research Cancer Biology Research		375,627 432,516	317,805
Health and Human Services, Department of	Direct		5 R01 CA227622-04					517,805
Health and Human Services, Department of	Direct		5 R01 CA236722-02	93.396	Cancer Biology Research		620,768	188,535
Health and Human Services, Department of	Direct		5 R01 CA240993-03	93.396	Cancer Biology Research Cancer Biology Research		766,449	188,555
Health and Human Services, Department of	Direct		5 R01 CA243916-03	93.396			529,895	-
Health and Human Services, Department of	Direct		5 R01 CA24505901-02 5 R01 CA245546 02	93.396	Cancer Biology Research		396,885	-
Health and Human Services, Department of	Direct		5 R01 CA245546 02	93.396	Cancer Biology Research		326,986	-
Health and Human Services, Department of	Direct		5 R01 CA248430-02	93.396 93.396	Cancer Biology Research		652,419	-
Health and Human Services, Department of	Direct		5 R01CA241947-02		Cancer Biology Research		612,073	-
Health and Human Services, Department of	Direct		5 R01CA244931-02	93.396	Cancer Biology Research		482,955	26,641
Health and Human Services, Department of	Direct		5 R01CA248160 02	93.396	Cancer Biology Research		325,648	-
Health and Human Services, Department of	Direct		5 R21 CA214233-03	93.396	Cancer Biology Research		19,676	-
Health and Human Services, Department of	Direct		5 R35 CA197585-06	93.396	Cancer Biology Research		902,055	-
Health and Human Services, Department of	Direct		5 R50 CA221807 04	93.396	Cancer Biology Research		194,110	-
Health and Human Services, Department of	Direct		5 R50 CA232985-04	93.396	Cancer Biology Research		65,036	-
Health and Human Services, Department of	Direct		5 U01 CA210152-05	93.396	Cancer Biology Research		659,959	-
Health and Human Services, Department of	Direct		5 U01 CA243075-02	93.396	Cancer Biology Research		405,245	231,880
Health and Human Services, Department of	Direct		5 UH3CA213386-05	93.396	Cancer Biology Research		128,372	-
Health and Human Services, Department of	Direct	I la incomitan	5R01CA226756-03	93.396 93.396	Cancer Biology Research		551,687	-
Health and Human Services, Department of	Pass-Through Arizona State		ASUB00000412		Cancer Biology Research		126,761	-
Health and Human Services, Department of	Pass-Through Baylor College		700001016	93.396	Cancer Biology Research		156,235	-
Health and Human Services, Department of	Pass-Through Beth Israel De Pass-Through Beth Israel De		01029116 Sub award 01029116	93.396 93.396	Cancer Biology Research		107,163	-
Health and Human Services, Department of					Cancer Biology Research		(40)	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Columbia Uni	ente Research Foundation Institute	1 GG012766-01 RNG209451-MICH-02	93.396 93.396	Cancer Biology Research Cancer Biology Research		3,121 18,399	-
			6807	93.396	Cancer Biology Research		124,593	-
Health and Human Services, Department of	Pass-Through Magee Womer Pass-Through Magee Womer		6807 6810-UM	93.396	Cancer Biology Research		124,393	-
Health and Human Services, Department of			6819UM	93.396	Cancer Biology Research		47,150	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Magee Womer Pass-Through Mayo Clinic	is Research institute	UOM-208812-04	93.396	Cancer Biology Research		5,422	-
Health and Human Services, Department of	Pass-Through Medical Colle	as of Wissensin	1 R01 CA223804-01 FP11970	93.396	Cancer Biology Research		(14,229)	-
			FP11970	93.396	Cancer Biology Research		(6,542)	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Medical Colle Pass-Through Purdue Univer		11000689-008	93.396	Cancer Biology Research Cancer Biology Research		(6,542) (41)	-
Health and Human Services, Department of	Pass-Through Texas A & M		M1902041	93.396	Cancer Biology Research		74,131	-
Health and Human Services, Department of		of Texas MD Anderson Cancer Center	3001109844	93.396	Cancer Biology Research		31,081	-
Health and Human Services, Department of		of Texas MD Anderson Cancer Center	3001141555	93.396	Cancer Biology Research		22,377	-
Health and Human Services, Department of		of Texas MD Anderson Cancer Center	3001634841	93.396	Cancer Biology Research		21,282	-
Health and Human Services, Department of	Pass-Through University of S		137541551	93.396	Cancer Biology Research		191,790	_
reading and Frankin Services, Department of	ass-rmough Oniversity of a	Southern Cultoring	15/571551	25.590	cancer Diology Research	\$	15,497,211 \$	917,434
Health and Human Services, Department of	Direct		3 P30 CA046592-28S5	93.397	Cancer Centers Support Grants	\$	39,739 \$	
Health and Human Services, Department of	Direct		3 P50 CA186786-08S1	93.397	Cancer Centers Support Grants	φ	2,005,964	297,915
Health and Human Services, Department of	Direct		5 P30 CA046592-32	93.397	Cancer Centers Support Grants		7,913,935	
Health and Human Services, Department of	Direct		5 R01 CA193377-05	93.397	Cancer Centers Support Grants		444,283	_
Health and Human Services, Department of	Direct		5 U54 CA163059-10	93.397	Cancer Centers Support Grants		1,159,599	123,047
Health and Human Services, Department of	Pass-Through Hutchinson, F	red. Cancer Research Center	0001016370	93.397	Cancer Centers Support Grants		47,296	
Health and Human Services, Department of	Pass-Through Hutchinson, F		0001062155	93.397	Cancer Centers Support Grants		95,571	_
Health and Human Services, Department of		Medical College of Cornell University	193822-2	93.397	Cancer Centers Support Grants		7,594	-
Health and Human Services, Department of	-	Medical College of Cornell University	204024	93.397	Cancer Centers Support Grants		107,181	-
	. ass rmough went collien	Source of Conten Chrystery	201021	10.001		\$	11,821,162 \$	420,962
Health and Human Services, Department of	Direct		1 F31 CA247076-01A1	93.398	Cancer Research Manpower	\$	31,190 \$	
Health and Human Services, Department of	Direct		1 F31 CA247104-01A1	93.398	Cancer Research Manpower	φ	6,459	_
Health and Human Services, Department of	Direct		1 F31 CA24/104-01A1	93.398	Cancer Research Manpower		11,773	_
Health and Human Services, Department of	Direct		1 F31-CA260925-01	93.398	Cancer Research Manpower		9,876	-
Health and Human Services, Department of	Direct		1 F32 CA254147-01A1	93.398	Cancer Research Manpower		38,187	_
Health and Human Services, Department of	Direct		1 F32 CA260735-01	93.398	Cancer Research Manpower		11,076	-
Health and Human Services, Department of	Direct		1 K99 CA241357-01A1	93.398	Cancer Research Manpower		56,179	_
Health and Human Services, Department of	Direct		5 F30 CA28228-03	93.398	Cancer Research Manpower		(405)	-
			5150 01220220-05	10.090	Cancer resource manpower		(-05)	5

				Assistance Listi	ng		Pa	assed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal E	xpenditures to	Subrecipients
Health and Human Services, Department of	Direct		5 F31 CA220966-03	93.398	Cancer Research Manpower		7,761	-
Health and Human Services, Department of	Direct		5 F31 CA221066-02	93.398	Cancer Research Manpower		(28,197)	-
Health and Human Services, Department of	Direct		5 F31 CA224804-02	93.398	Cancer Research Manpower		(3,434)	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5 F31 CA232655-02 5 F31 CA243344-03	93.398 93.398	Cancer Research Manpower Cancer Research Manpower		20,948 35,772	-
Health and Human Services, Department of	Direct		5 F31 CA247037-02	93.398	Cancer Research Manpower		42,099	_
Health and Human Services, Department of	Direct		5 F31 CA247457-02	93.398	Cancer Research Manpower		41,146	_
Health and Human Services, Department of	Direct		5 F31 CA254079-02	93.398	Cancer Research Manpower		36,417	-
Health and Human Services, Department of	Direct		5 F31 CA254080-02	93.398	Cancer Research Manpower		45,929	-
Health and Human Services, Department of	Direct		5 F31 CA254138-02	93.398	Cancer Research Manpower		40,289	-
Health and Human Services, Department of	Direct		5 F32 CA228262-03	93.398	Cancer Research Manpower		6,943	-
Health and Human Services, Department of	Direct		5 F32 CA228328-02	93.398	Cancer Research Manpower		2,849	-
Health and Human Services, Department of	Direct		5 F32 CA243421-03	93.398	Cancer Research Manpower		62,365	-
Health and Human Services, Department of	Direct		5 F32 CA247492-02	93.398	Cancer Research Manpower		60,332	-
Health and Human Services, Department of	Direct		5 K07 CA196752-05	93.398 93.398	Cancer Research Manpower Cancer Research Manpower		188,207 27,496	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5 K07 CA201052-04 5 K08 CA201335-05	93.398	Cancer Research Manpower		131,302	-
Health and Human Services, Department of	Direct		5 K08 CA201555-05 5 K08 CA201581-05	93.398	Cancer Research Manpower		125,092	-
Health and Human Services, Department of	Direct		5 K08 CA208013-05	93.398	Cancer Research Manpower		129,120	_
Health and Human Services, Department of	Direct		5 K08 CA218460-03	93.398	Cancer Research Manpower		(4,941)	-
Health and Human Services, Department of	Direct		5 K08 CA226350-04	93.398	Cancer Research Manpower		202,862	-
Health and Human Services, Department of	Direct		5 K08 CA234222-04	93.398	Cancer Research Manpower		164,673	-
Health and Human Services, Department of	Direct		5 K08 CA234416-03	93.398	Cancer Research Manpower		276,059	-
Health and Human Services, Department of	Direct		5 K08 CA237638-03	93.398	Cancer Research Manpower		219,210	-
Health and Human Services, Department of	Direct		5 K08 CA245237-03	93.398	Cancer Research Manpower		253,313	-
Health and Human Services, Department of	Direct		5 R25 CA203651-05	93.398	Cancer Research Manpower		151,811	-
Health and Human Services, Department of	Direct		5 R25 CA214227-05	93.398	Cancer Research Manpower		248,030	2,855
Health and Human Services, Department of	Direct		5K08CA197369-05	93.398	Cancer Research Manpower		112,051	-
Health and Human Services, Department of	Direct		T32 CA009357 T32 CA009672	93.398	Cancer Research Manpower		348,012	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		T32 CA009672 T32 CA009676	93.398 93.398	Cancer Research Manpower Cancer Research Manpower		210,835 309,441	-
Health and Human Services, Department of	Direct Direct		T32 CA009070	93.398	Cancer Research Manpower		200,003	-
Health and Human Services, Department of	Direct		T32 CA140044	93.398	Cancer Research Manpower		(1,081)	_
Health and Human Services, Department of	Direct		T32 CA140044	93.398	Cancer Research Manpower		269,037	-
Health and Human Services, Department of	Direct		T32 CA180984	93.398	Cancer Research Manpower		344,325	-
Health and Human Services, Department of	Direct		T32CA236621	93.398	Cancer Research Manpower		335,269	-
Health and Human Services, Department of	Pass-Through Case Western Rese	erve University	TRN514607	93.398	Cancer Research Manpower		3,021	-
Health and Human Services, Department of	Pass-Through Case Western Rese	erve University	TRN515657	93.398	Cancer Research Manpower		23,678	-
						\$	4,802,379 \$	2,855
Health and Human Services, Department of	Direct		5 R01 CA203809-03	93.399	Cancer Control	\$	21,386 \$	-
Health and Human Services, Department of	Direct		5 R03 CA241841-02 5 UG1 CA242632-02	93.399 93.399	Cancer Control Cancer Control		105,200 326,358	68,326
Health and Human Services, Department of Health and Human Services, Department of	Direct Pass-Through ECOG-ACRIN Me	edical Research Foundation Inc	2UG1CA189828-06-MICH3	93.399	Cancer Control		7,275	08,520
Health and Human Services, Department of	Pass-Through ECOG-ACRIN Me		UG1CA189828-06-MICH1	93.399	Cancer Control		1,744	_
Health and Human Services, Department of	Pass-Through ECOG-ACRIN Me		UG1CA189828-06-MICH1	93.399	Cancer Control		9,755	-
Health and Human Services, Department of	Pass-Through ECOG-ACRIN Me		UG1CA189828-06-MICH2	93.399	Cancer Control		32,089	-
Health and Human Services, Department of	Pass-Through ECOG-ACRIN Me		UG1CA189828-06-MICH2	93.399	Cancer Control		106,107	-
Health and Human Services, Department of	Pass-Through ECOG-ACRIN Me	edical Research Foundation, Inc	UG1CA189828-07-MICH-AYA	93.399	Cancer Control		35,656	-
Health and Human Services, Department of	Pass-Through NRG Oncology		NCORP-Arring-GY7	93.399	Cancer Control		4,422	-
Health and Human Services, Department of	Pass-Through NRG Oncology		NCORP-Barton-GY6	93.399	Cancer Control		4,834	-
Health and Human Services, Department of	Pass-Through NRG Oncology		NCORP-Barton-GY6	93.399	Cancer Control		22,980	-
Health and Human Services, Department of	Pass-Through NRG Oncology		NCORP-CC006-GY6	93.399	Cancer Control		8,684	-
Health and Human Services, Department of	Pass-Through Oregon Health and		1014562_UMICHIGAN_Henry	93.399	Cancer Control		2,320	-
Health and Human Services, Department of	Pass-Through Oregon Health and		1014562_UMICHIGAN_Henry	93.399	Cancer Control		27,645	-
Health and Human Services, Department of	Pass-Through Oregon Health and	2	1014562_UMICHIGAN_Leja	93.399	Cancer Control		60,892	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Oregon Health and Pass-Through Oregon Health and		1014562_UMICHIGAN_Leja 1014562_UMICHIGAN_Rae	93.399 93.399	Cancer Control Cancer Control		114,193 439	-
Health and Human Services, Department of	Pass-Through Oregon Health and		1014562 UMICHIGAN Rae	93.399	Cancer Control		5,021	_
Tranar and Trankin Set (1965), Department of	Tubb Through Oregon Heatan and	belence childensky	for loo2_childen int_face	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		\$	897,000 \$	68,326
					Strengthening Public Health Systems and Services through	-		·
					National Partnerships to Improve and Protect the Nation's			
Health and Human Services, Department of	Pass-Through The Task Force for	r Global Health, Inc. (TFGH)	U38OT000316	93.421	Health	\$	54,196 \$	-
					Strengthening Public Health Systems and Services through			
					National Partnerships to Improve and Protect the Nation's		(a. c	
Health and Human Services, Department of	Pass-Through University of Verm	nont	AWD00000288SUB00000135	93.421	Health	<u>_</u>	63,208	
					ACL National Institute on Disability, Independent Living, an	4	117,404 \$	
Health and Human Services, Department of	Direct		90AR5020-0200	93.433	ACL National Institute on Disability, Independent Living, an Rehabilitation Research	a \$	(14,205) \$	
reards and ruman Scivices, Department of	Direct		70AKJ020-0200	201-100	ACL National Institute on Disability, Independent Living, an		(17,203) 3	-
Health and Human Services, Department of	Direct		90ARCP0003-01-00	93.433	Rehabilitation Research	-	12,498	-
× 4					ACL National Institute on Disability, Independent Living, an	d		
Health and Human Services, Department of	Direct		90ARCP000302-00	93.433	Rehabilitation Research		119,775	-

Cluster Title/Federal Grantor/Program	Type Pass-Through Gran	tor Award Identifier	Assistance Listing Number	Assistance Listing Program Title	Federal Expenditures to	Passed-Through D Subrecipients
ealth and Human Services, Department of	Direct	90IFDV0002-03-03	93.433	ACL National Institute on Disability, Independent Living, and Rehabilitation Research	70,642	63,614
ealth and Human Services, Department of	Direct	90IFRE0002-02-00	93.433	ACL National Institute on Disability, Independent Living, and Rehabilitation Research	356	-
ealth and Human Services, Department of	Direct	90IFRE0002-03-00	93.433	ACL National Institute on Disability, Independent Living, and Rehabilitation Research	105,806	_
alth and Human Services, Department of	Direct	90RES5012-04-00		ACL National Institute on Disability, Independent Living, and Rehabilitation Research		
· •				ACL National Institute on Disability, Independent Living, and	,	-
alth and Human Services, Department of	Direct	90RTHF0001-01-00		Rehabilitation Research ACL National Institute on Disability, Independent Living, and		-
alth and Human Services, Department of	Direct	90RTHF0001-02-00	93.433	Rehabilitation Research ACL National Institute on Disability, Independent Living, and	270,064	59,915
alth and Human Services, Department of	Direct	90RTHF0001-03-00	93.433	Rehabilitation Research ACL National Institute on Disability, Independent Living, and	587,647	73,883
alth and Human Services, Department of	Pass-Through Brandeis University	403315	93.433	Rehabilitation Research ACL National Institute on Disability, Independent Living, and	5,951	-
alth and Human Services, Department of	Pass-Through Craig Hospital	UM001	93.433	Rehabilitation Research	(1,127)	-
alth and Human Services, Department of	Pass-Through Craig Hospital	UM003-G#26099-BY 4/5	93.433	ACL National Institute on Disability, Independent Living, and Rehabilitation Research	53,934	-
alth and Human Services, Department of	Pass-Through Craig Hospital	UM003-G#2609-BY3/5	93.433	ACL National Institute on Disability, Independent Living, and Rehabilitation Research	17,714	-
alth and Human Services, Department of	Pass-Through Kessler Foundation	40576-01	93.433	ACL National Institute on Disability, Independent Living, and Rehabilitation Research	20,155	-
alth and Human Services, Department of	Rehabilitation Engineering Research Center for Comr Pass-Through (LiveWell RERC)	nunity Living, Health and Function SHEP-20-0010		ACL National Institute on Disability, Independent Living, and Rehabilitation Research	7,387	_
	- · · ·			ACL National Institute on Disability, Independent Living, and	.,	
alth and Human Services, Department of	Pass-Through State University of New York (SUNY)	90RE5022		Rehabilitation Research ACL National Institute on Disability, Independent Living, and		-
alth and Human Services, Department of	Pass-Through University at Buffalo	R1239016	93.433	Rehabilitation Research ACL National Institute on Disability, Independent Living, and	9,543	-
alth and Human Services, Department of	Pass-Through University of Pittsburgh	AWD00002848 (135089-1)	93.433	Rehabilitation Research	39,309 \$ 1,318,403 \$	197,412
alth and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep	artment of E20213092-002 I	93.435	Innovative State and Local Public Health Strategies to prevent and Manage Diabetes and Heart Disease and Stroke-	\$ 38,877 \$	
and and ruman services, Department of	rass-1 mough whengan, state of, reath and ruman services, Dep	E20213092-0021	93.435	CDC Undergraduate Public Health Scholars Program (CUPS):		
Ith and Human Services, Department of	Direct	5 NU50 MN000001-05-00	93.456	A Public Health Experience to Expose Undergraduates Interested in Minority Health to Public Health and the Public	\$ 484,160 \$	
Ith and Human Services, Department of	Direct	5 UB6HP31684-04-00		Public Health Training Centers Program	\$ 887,543 \$	
				Community Health Access and Rural Transformation		,
lth and Human Services, Department of	Pass-Through Center for Healthcare Research & Transformation	Subcontractor Agreement	93.624	(CHART) Model	\$ 8,942 \$	
th and Human Services, Department of	Pass-Through University of Illinois-Urbana-Champaign	102497-18334	93.647	Social Services Research and Demonstration Substance Use-Disorder Prevention that Promotes Opioid	\$ 25,702 \$	
				Recovery and Treatment (SUPPORT) for Patients and		
lth and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep	artment of CE20203511 / Project CJ	93.664	Communities Act Substance Use-Disorder Prevention that Promotes Opioid	\$ 137,693 \$	-
				Recovery and Treatment (SUPPORT) for Patients and		
th and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep	urtment of E20212565-003 BH	93.664	Communities Act	511,893	-
					\$ 649,586 \$	-
th and Human Services, Department of	Direct	4 M01HP31331-04-01	93.732	Mental and Behavioral Health Education and Training Grants PPHF: Racial and Ethnic Approaches to Community Health	\$ 572,474 \$	-
lth and Human Services, Department of	Pass-Through National Kidney Foundation of Michigan	NU58DP006597	93.738	Program financed solely by Public Prevention and Health Fund	ls \$ 10,016 \$	-
lth and Human Services, Department of	Pass-Through National Kidney Foundation of Michigan	NU58DP006597	93.738	PPHF: Racial and Ethnic Approaches to Community Health Program financed solely by Public Prevention and Health Fund		-
					\$ 62,354 \$	
Ith and Human Services, Department of	Pass-Through Community Mental Health Partnership of Southeast M		93.788	Opioid STR	\$ 29,647 \$	-
alth and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Depa		93.788	Opioid STR	(20,581)	-
alth and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep		93.788	Opioid STR	(1,958)	-
Ith and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep		93.788 93.788	Opioid STR	210,562	-
Ith and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep.			Opioid STR	(1,379)	-
Ith and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep		93.788	Opioid STR	467,277	64,1
lth and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep		93.788	Opioid STR	(116)	-
	Pass-Through Michigan, State of, Health and Human Services, Dep		93.788	Opioid STR	242,932	-
	Pass-Through Michigan, State of, Health and Human Services, Dep		93.788	Opioid STR	24,895	-
alth and Human Services, Department of		artment of E20213445-003 AV	93.788	Opioid STR	381,683 364,725	-
alth and Human Services, Department of alth and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep			Opioid STR		-
alth and Human Services, Department of alth and Human Services, Department of alth and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep		93.788			
ealth and Human Services, Department of ealth and Human Services, Department of ealth and Human Services, Department of ealth and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep Pass-Through Michigan, State of, Health and Human Services, Dep	artment of E20213601-003 BR	93.788	Opioid STR	307,173	-
ealth and Human Services, Department of ealth and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep	artment of E20213601-003 BR	93.788		307,173 47,897	2,562.0
alth and Human Services, Department of alth and Human Services, Department of alth and Human Services, Department of alth and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Dep Pass-Through Michigan, State of, Health and Human Services, Dep	artment of E20213601-003 BR	93.788 93.788	Opioid STR	307,173 47,897 \$ 2,052,757 \$	2,562.0

Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Assistance Listi Number	ng Assistance Listing Program Title	Federal Expenditures to S	ssed-Through Subrecipients
Cluster The/Tederal Grantol/Trogram		Award Identifier	rumber	Supporting and Maintaining a Surveillance System for Chronic	reactal Expenditures to c	Jubi ccipicitis
ealth and Human Services, Department of	Direct	6NU58DP0062540401	93.833	Kidney Disease (CKD) in the United States	\$ 848,816 \$	202,812
				Capacity Building Assistance (CBA) for High-Impact HIV		
ealth and Human Services, Department of	Pass-Through Washington University in St. Louis	WU-21-24/PO 2939620K	93.834	Prevention	\$ 23,291 \$	-
ealth and Human Services, Department of	Direct	1 R01 HL155834-01	93.837	Cardiovascular Diseases Research	\$ 105,610 \$	22,221.00
ealth and Human Services, Department of	Direct	1 R01 HL156274-01A1	93.837	Cardiovascular Diseases Research	6,056	-
ealth and Human Services, Department of	Direct	1 R03 HL148465-01A1	93.837	Cardiovascular Diseases Research	14,588	-
ealth and Human Services, Department of	Direct	1 R13 HL154513-01	93.837	Cardiovascular Diseases Research	19,743	-
ealth and Human Services, Department of	Direct	1 UG3 HL145269-01A1	93.837	Cardiovascular Diseases Research	730,721	65,447
ealth and Human Services, Department of	Direct	1-R01H145176-01A1	93.837	Cardiovascular Diseases Research	(348)	-
ealth and Human Services, Department of	Direct	2 R01 HL085339-10A1	93.837	Cardiovascular Diseases Research	41,078	-
ealth and Human Services, Department of	Direct	2 R01 HL12088-05	93.837	Cardiovascular Diseases Research	179,019	-
ealth and Human Services, Department of	Direct	2 R01 HL134569-05	93.837	Cardiovascular Diseases Research	265,083	-
ealth and Human Services, Department of	Direct	3 R01 HL134846-03S2	93.837	Cardiovascular Diseases Research	389,941	-
ealth and Human Services, Department of	Direct	5 F31 HL144047-02	93.837	Cardiovascular Diseases Research	(19,249)	-
ealth and Human Services, Department of	Direct	5 F31 HL146162-02	93.837	Cardiovascular Diseases Research	41,501	-
ealth and Human Services, Department of	Direct	5 F31 HL149214-03	93.837	Cardiovascular Diseases Research	36,963	-
ealth and Human Services, Department of	Direct	5 F31 HL149249-02	93.837	Cardiovascular Diseases Research	53,356	-
ealth and Human Services, Department of	Direct	5 F31 HL152501-02	93.837	Cardiovascular Diseases Research	39,246	-
ealth and Human Services, Department of	Direct	5 F32 HL140728-03	93.837	Cardiovascular Diseases Research	7,924	-
ealth and Human Services, Department of	Direct	5 K01 HL132057-05	93.837	Cardiovascular Diseases Research	113,826	_
ealth and Human Services, Department of	Direct	5 K01 HL145366-03	93.837	Cardiovascular Diseases Research	172,212	_
ealth and Human Services, Department of	Direct	5 K01 HL171500-05 5 K01 HL171701 04	93.837	Cardiovascular Diseases Research	141,405	
alth and Human Services, Department of	Direct	5 K01 HL171701 04 5 K08 HL123621-05	93.837	Cardiovascular Diseases Research	(34,297)	
alth and Human Services, Department of	Direct	5 K08 HL12021-05 5 K08 HL130455-05	93.837	Cardiovascular Diseases Research	174,113	-
alth and Human Services, Department of		5 K08 HL131993-05	93.837	Cardiovascular Diseases Research	16,556	-
	Direct	5 K08 HL131995-05	93.837		125,666	-
ealth and Human Services, Department of	Direct			Cardiovascular Diseases Research		-
ealth and Human Services, Department of	Direct	5 K08 HL144924-03	93.837	Cardiovascular Diseases Research	136,709	-
ealth and Human Services, Department of	Direct	5 K08 HL146351-02	93.837	Cardiovascular Diseases Research	233,713	
ealth and Human Services, Department of	Direct	5 K08 HL146990-03	93.837	Cardiovascular Diseases Research	139,411	9,713
ealth and Human Services, Department of	Direct	5 K08HL130944-05	93.837	Cardiovascular Diseases Research	160,440	-
ealth and Human Services, Department of	Direct	5 K08HL148552-03	93.837	Cardiovascular Diseases Research	132,094	-
ealth and Human Services, Department of	Direct	5 K12 HL133304-05	93.837	Cardiovascular Diseases Research	335,283	-
ealth and Human Services, Department of	Direct	5 K23 HL119623-05	93.837	Cardiovascular Diseases Research	(4,262)	-
ealth and Human Services, Department of	Direct	5 K23 HL128909-05	93.837	Cardiovascular Diseases Research	274,982	-
ealth and Human Services, Department of	Direct	5 K23 HL130641-05	93.837	Cardiovascular Diseases Research	73,789	-
ealth and Human Services, Department of	Direct	5 K23 HL135397-04	93.837	Cardiovascular Diseases Research	148,400	-
ealth and Human Services, Department of	Direct	5 K23 HL145096-03	93.837	Cardiovascular Diseases Research	111,397	-
ealth and Human Services, Department of	Direct	5 K99HL150233-02	93.837	Cardiovascular Diseases Research	116,091	-
ealth and Human Services, Department of	Direct	5 R0 1HL153384-02	93.837	Cardiovascular Diseases Research	311,753	15,226
ealth and Human Services, Department of	Direct	5 R00 HL124322-05	93.837	Cardiovascular Diseases Research	9,132	-
ealth and Human Services, Department of	Direct	5 R00HL133482-05	93.837	Cardiovascular Diseases Research	325,495	-
ealth and Human Services, Department of	Direct	5 R01 HL058984-21	93.837	Cardiovascular Diseases Research	274,585	-
ealth and Human Services, Department of	Direct	5 R01 HL105297-08	93.837	Cardiovascular Diseases Research	146,337	101,387
ealth and Human Services, Department of	Direct	5 R01 HL109946-08	93.837	Cardiovascular Diseases Research	728,132	-
ealth and Human Services, Department of	Direct	5 R01 HL117626-05S2	93.837	Cardiovascular Diseases Research	(794)	-
ealth and Human Services, Department of	Direct	5 R01 HL119542-04	93.837	Cardiovascular Diseases Research	(4,665)	-
ealth and Human Services, Department of	Direct	5 R01 HL122261-05	93.837	Cardiovascular Diseases Research	68,188	19,277
ealth and Human Services, Department of	Direct	5 R01 HL122664-05	93.837	Cardiovascular Diseases Research	(227,489)	_
ealth and Human Services, Department of	Direct	5 R01 HL122684-05	93.837	Cardiovascular Diseases Research	531,830	32,694
ealth and Human Services, Department of	Direct	5 R01 HL123333-05	93.837	Cardiovascular Diseases Research	(2,175)	-
alth and Human Services, Department of	Direct	5 R01 HL126969-05	93.837	Cardiovascular Diseases Research	141,348	40,418
alth and Human Services, Department of	Direct	5 R01 HL127023-04	93.837	Cardiovascular Diseases Research	24,480	-
alth and Human Services, Department of	Direct	5 R01 HL127215-04	93.837	Cardiovascular Diseases Research	122,124	29,25
alth and Human Services, Department of	Direct	5 R01 HL127564-04	93.837	Cardiovascular Diseases Research	(33,039)	(21,31
alth and Human Services, Department of	Direct	5 R01 HL127687-04	93.837	Cardiovascular Diseases Research	23,052	(21,51
alth and Human Services, Department of	Direct	5 R01 HL127087-04 5 R01 HL128231-05	93.837	Cardiovascular Diseases Research	423,422	245,65
alth and Human Services, Department of	Direct	5 R01 HL1283307-04	93.837	Cardiovascular Diseases Research	21,201	245,055
· ·	Direct	5 R01 HL1283507-04 5 R01 HL130106-05	93.837	Cardiovascular Diseases Research	236,878	-
Ith and Human Services, Department of	Direct	5 R01 HL130106-05 5 R01 HL132037-04	93.837	Cardiovascular Diseases Research	184,662	-
alth and Human Services, Department of	Direct	5 R01 HL132057-04 5 R01 HL132979-05	93.837	Cardiovascular Diseases Research	462,942	71,48
alth and Human Services, Department of						/1,48
alth and Human Services, Department of	Direct	5 R01 HL133129-04	93.837	Cardiovascular Diseases Research	808,521	
alth and Human Services, Department of	Direct	5 R01 HL133221-04	93.837	Cardiovascular Diseases Research	241,910	(6,41
alth and Human Services, Department of	Direct	5 R01 HL134846-04	93.837	Cardiovascular Diseases Research	615,105	-
alth and Human Services, Department of	Direct	5 R01 HL136231-04	93.837	Cardiovascular Diseases Research	322,517	-
alth and Human Services, Department of	Direct	5 R01 HL137214-04	93.837	Cardiovascular Diseases Research	900,982	
alth and Human Services, Department of	Direct	5 R01 HL137731-04	93.837	Cardiovascular Diseases Research	774,026	395,23
ealth and Human Services, Department of	Direct	5 R01 HL137964-04	93.837	Cardiovascular Diseases Research	832,279	155,62
alth and Human Services, Department of	Direct	5 R01 HL138094-03	93.837	Cardiovascular Diseases Research	(578)	-
alth and Human Services, Department of	Direct	5 R01 HL138139-05	93.837	Cardiovascular Diseases Research	637,401	-
as the and Human Samilage Department of	Direct	5 R01 HL139656-04	93.837	Cardiovascular Diseases Research	532,846	-
ealth and Human Services, Department of	Direct	5 R01 112155050-04	221027			

				Assistance List			Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
Health and Human Services, Department of	Direct		5 R01 HL139735 02	93.837	Cardiovascular Diseases Research	497,938	-
Health and Human Services, Department of	Direct		5 R01 HL139813-04	93.837	Cardiovascular Diseases Research	413,475	-
Health and Human Services, Department of	Direct		5 R01 HL141292-04	93.837	Cardiovascular Diseases Research	862,003	228,491
Health and Human Services, Department of	Direct		5 R01 HL141509-03	93.837	Cardiovascular Diseases Research	669,098	-
Health and Human Services, Department of	Direct		5 R01 HL141891-04	93.837	Cardiovascular Diseases Research	558,877	-
Health and Human Services, Department of	Direct		5 R01 HL142023-02	93.837	Cardiovascular Diseases Research	50,219	-
Health and Human Services, Department of	Direct		5 R01 HL144657-03	93.837	Cardiovascular Diseases Research	421,126	-
Health and Human Services, Department of	Direct		5 R01 HL144777-02	93.837	Cardiovascular Diseases Research	401,834	-
Health and Human Services, Department of	Direct		5 R01 HL146352-02	93.837	Cardiovascular Diseases Research	341,584	119,780
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5 R01 HL146619-02 5 R01 HL147527-03	93.837 93.837	Cardiovascular Diseases Research Cardiovascular Diseases Research	507,512 1,251,909	119,780
Health and Human Services, Department of	Direct		5 R01 HL149363 02	93.837	Cardiovascular Diseases Research	571,233	28,338
Health and Human Services, Department of	Direct		5 R01 HL150848-02	93.837	Cardiovascular Diseases Research	354,108	20,550
Health and Human Services, Department of	Direct		5 R01 HL151076-02	93.837	Cardiovascular Diseases Research	575,186	
Health and Human Services, Department of	Direct		5 R01 HD132988-04	93.837	Cardiovascular Diseases Research	(21,247)	
Health and Human Services, Department of	Direct		5 R01HL134569-04	93.837	Cardiovascular Diseases Research	552,600	_
Health and Human Services, Department of	Direct		5 R01HL148068-03	93.837	Cardiovascular Diseases Research	724,998	
Health and Human Services, Department of	Direct		5 R21 HL153694-02	93.837	Cardiovascular Diseases Research	179,067	
Health and Human Services, Department of	Direct		5 R25 HL108842-10	93.837	Cardiovascular Diseases Research	11,911	
Health and Human Services, Department of	Direct		5 R25 HL147207-03	93.837	Cardiovascular Diseases Research	60,338	
Health and Human Services, Department of	Direct		5 R34 HL130738-02	93.837	Cardiovascular Diseases Research	(18,786)	_
Health and Human Services, Department of	Direct		5 R34 HL150738-02 5 R35 HL135823-06	93.837	Cardiovascular Diseases Research	590,745	-
Health and Human Services, Department of	Direct		5 R35 HL135825-00	93.837	Cardiovascular Diseases Research	942,840	4,559
Health and Human Services, Department of	Direct		5 U01 HL135842-04	93.837	Cardiovascular Diseases Research	446,996	184,456
Health and Human Services, Department of	Direct		5 UG1 HL135665-05	93.837	Cardiovascular Diseases Research	380,365	104,450
Health and Human Services, Department of	Direct		5 UH3 HL145269-03	93.837	Cardiovascular Diseases Research	2,379,631	44,110
Health and Human Services, Department of	Direct		7 R01 HL094557-10	93.837	Cardiovascular Diseases Research	68,635	51,545
Health and Human Services, Department of	Direct		T32 HL007853	93.837	Cardiovascular Diseases Research	442,964	51,545
Health and Human Services, Department of	Direct		T32 HL076123	93.837	Cardiovascular Diseases Research	(3,989)	
Health and Human Services, Department of	Direct		T32 HL125242	93.837	Cardiovascular Diseases Research	157,927	
Health and Human Services, Department of	Direct		T32 HL125242-06	93.837	Cardiovascular Diseases Research	10,268	
Health and Human Services, Department of	Pass-Through Brigham and V	Women's Hospital	120816	93.837	Cardiovascular Diseases Research	48,787	
Health and Human Services, Department of	Pass-Through Brown Univer		00001264	93.837	Cardiovascular Diseases Research	18,669	
Health and Human Services, Department of	Pass-Through California Nor		1	93.837	Cardiovascular Diseases Research	305,558	_
Health and Human Services, Department of	Pass-Through Case Western		1153-SUB	93.837	Cardiovascular Diseases Research	45,793	
Health and Human Services, Department of	Pass-Through Case Western		RES511861	93.837	Cardiovascular Diseases Research	(25,438)	_
Health and Human Services, Department of	Pass-Through Case Western		RES515474	93.837	Cardiovascular Diseases Research	99,717	
Health and Human Services, Department of	Pass-Through Children's Hos		0046317 (126441-4)	93.837	Cardiovascular Diseases Research	21,161	
Health and Human Services, Department of	Pass-Through Cleveland Clir		1224-SUB	93.837	Cardiovascular Diseases Research	16,415	_
Health and Human Services, Department of		nic Lerner College of Medicine	981-SUB	93.837	Cardiovascular Diseases Research	(248)	
Health and Human Services, Department of	Pass-Through Drexel Univer		900049-6906-7022/U0205483	93.837	Cardiovascular Diseases Research	113,355	_
Health and Human Services, Department of	Pass-Through Drexel Univer		900125-2/PO U0222487	93.837	Cardiovascular Diseases Research	64,301	_
Health and Human Services, Department of	Pass-Through Duke Universi		A03-2183	93.837	Cardiovascular Diseases Research	(1,350)	_
Health and Human Services, Department of	Pass-Through Duke Universi		A03-3547	93.837	Cardiovascular Diseases Research	32,611	_
Health and Human Services, Department of	Pass-Through Emory Univer		A102030	93.837	Cardiovascular Diseases Research	202,243	_
Health and Human Services, Department of		ute for Medical Research, The	50811-324-UMICH	93.837	Cardiovascular Diseases Research	19,800	_
Health and Human Services, Department of		ute for Medical Research, The	50811-324-UMICH	93.837	Cardiovascular Diseases Research	6,211	
Health and Human Services, Department of	Pass-Through Hutchinson, F		0001024353	93.837	Cardiovascular Diseases Research	62,361	_
Health and Human Services, Department of	Pass-Through ImBio	red, Cancer Research Center	Project Plan	93.837	Cardiovascular Diseases Research	178,348	
Health and Human Services, Department of	Pass-Through Indiana Unive	rsity	IN4687798UM	93.837	Cardiovascular Diseases Research	(26)	_
Health and Human Services, Department of	Pass-Through Joslin Diabete		100029	93.837	Cardiovascular Diseases Research	58,656	-
Health and Human Services, Department of	Pass-Through Massachusetts		230189	93.837	Cardiovascular Diseases Research	47,156	-
Health and Human Services, Department of	Pass-Through Michigan Stat		RC110505UM	93.837	Cardiovascular Diseases Research	150,453	-
Health and Human Services, Department of	Pass-Through Michigan Stat		RC111435A	93.837	Cardiovascular Diseases Research	10,716	-
Health and Human Services, Department of		Research Institutes, Inc. dba HealthCore	Pediatric Heart Network Sub-Aw	93.837	Cardiovascular Diseases Research	10,472	-
Health and Human Services, Department of		Research Institutes, Inc. dba HealthCore	Procurement Services Agreement	93.837	Cardiovascular Diseases Research	8,267	-
Health and Human Services, Department of		Research Institutes, Inc. dba HealthCore	Service Agreement	93.837	Cardiovascular Diseases Research	34,260	-
Health and Human Services, Department of		Research Institutes, Inc. dba HealthCore	Service Agreement	93.837	Cardiovascular Diseases Research	82	-
Health and Human Services, Department of		Research Institutes, Inc. dba HealthCore	Services Agreement	93.837	Cardiovascular Diseases Research	28,985	-
Health and Human Services, Department of		Research Institutes, Inc. dba HealthCore	SERVICES AGREEMENT for Ox Bior	93.837	Cardiovascular Diseases Research	10,696	-
Health and Human Services, Department of		Research Institutes, Inc. dba HealthCore	Sub-Award Agreement	93.837	Cardiovascular Diseases Research	10,716	-
Health and Human Services, Department of		Research Institutes, Inc. dba HealthCore	Sub-Award Agreement	93.837	Cardiovascular Diseases Research	(4,902)	-
Health and Human Services, Department of		Research Institutes, Inc. dba HealthCore	Subcontract Agreement	93.837	Cardiovascular Diseases Research	14,613	-
Health and Human Services, Department of		Research Institutes, Inc. dba HealthCore	Subcontract Agreement	93.837	Cardiovascular Diseases Research	7,783	-
Health and Human Services, Department of		iversity Grossman School of Medicine	18-A0-00-1001368	93.837	Cardiovascular Diseases Research	63,586	-
Health and Human Services, Department of		iversity Grossman School of Medicine	18-A0-00-1001368	93.837	Cardiovascular Diseases Research	54,234	-
Health and Human Services, Department of	Pass-Through NOTA Labora		Roundtable Research Agreement	93.837	Cardiovascular Diseases Research	40,985	-
Health and Human Services, Department of	Pass-Through NOTA Labora		SBIR Research Agreement	93.837	Cardiovascular Diseases Research	16,078	-
Health and Human Services, Department of	Pass-Through Pennsylvania		UMICHHL153231	93.837	Cardiovascular Diseases Research	12,303	-
	Pass-Through Purdue Univer		11000678-005	93.837	Cardiovascular Diseases Research	13	-
Health and Human Services, Department of							
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through San Francisco		S18-0010	93.837	Cardiovascular Diseases Research	19,065	-

			Assistance List			assed-Throu
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures to	Subrecipien
Health and Human Services, Department of	Pass-Through The Children's Hospital of Philadelphia	3210920617	93.837	Cardiovascular Diseases Research	87,413	-
Health and Human Services, Department of	Pass-Through The Miriam Hospital	7107147197	93.837	Cardiovascular Diseases Research	43,502	-
Health and Human Services, Department of	Pass-Through The University of Texas Health Science Center at Houston	SA0000636	93.837	Cardiovascular Diseases Research	60,481	-
Iealth and Human Services, Department of	Pass-Through University of Cincinnati	013051-00003	93.837	Cardiovascular Diseases Research	60,741	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through University of Minnesota Pass-Through University of Missouri	P006116203	93.837 93.837	Cardiovascular Diseases Research Cardiovascular Diseases Research	20,534	-
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel Hill	C00059617-1 5110534	93.837	Cardiovascular Diseases Research	(905) 277,936	-
Health and Human Services, Department of	Pass-Through University of Virginia	GB10678	93.837	Cardiovascular Diseases Research	5,400	-
Health and Human Services, Department of	Pass-Through University of Virginia	GB10678 GB10678.PO#2306902	93.837	Cardiovascular Diseases Research	9,092	-
Health and Human Services, Department of	Pass-Through University of Virginia	GB10705. PO#2152738	93.837	Cardiovascular Diseases Research	361,555	-
Health and Human Services, Department of	Pass-Through University of Wisconsin	0000000774	93.837	Cardiovascular Diseases Research	14,061	
realiti and trankin ber ribes, Department of	Tabs Through Christophy of Whitehism	0000001771	221021	Cardiovascular Discusco resourch	\$ 31,525,840 \$	1,837,19
Health and Human Services, Department of	Direct	1 F31 HL158003-01	93.838	Lung Diseases Research	\$ 6,459 \$	-
Health and Human Services, Department of	Direct	1 F32 HL150954-01	93.838	Lung Diseases Research	69,894	-
Health and Human Services, Department of	Direct	1 K08 HL153799-01A1	93.838	Lung Diseases Research	22,670	-
lealth and Human Services, Department of	Direct	1 K23 HL157364-01	93.838	Lung Diseases Research	23,353	-
lealth and Human Services, Department of	Direct	1 R01 HL143339 01A1	93.838	Lung Diseases Research	111,770	-
lealth and Human Services, Department of	Direct	1 R35 HL155169-01	93.838	Lung Diseases Research	163,015	-
lealth and Human Services, Department of	Direct	3 K23HL136934-03S1	93.838	Lung Diseases Research	136,294	-
lealth and Human Services, Department of	Direct	4 U01 HL128952-05	93.838	Lung Diseases Research	146,367	-
lealth and Human Services, Department of	Direct	4 U01HL128952-05	93.838	Lung Diseases Research	(19,306)	-
lealth and Human Services, Department of	Direct	5 F31 HL149150-03	93.838	Lung Diseases Research	36,934	-
ealth and Human Services, Department of	Direct	5 F31 HL149277-02	93.838	Lung Diseases Research	32,296	-
lealth and Human Services, Department of	Direct	5 F31 HL152509-02	93.838	Lung Diseases Research	32,841	-
lealth and Human Services, Department of	Direct	5 F31 HL152531-02	93.838	Lung Diseases Research	44,896	-
lealth and Human Services, Department of	Direct	5 F32 HL149182-02	93.838	Lung Diseases Research	55,996	-
lealth and Human Services, Department of	Direct	5 F32 HL149337-02	93.838	Lung Diseases Research	71,734	-
lealth and Human Services, Department of	Direct	5 K01 HL136687-05	93.838	Lung Diseases Research	122,575	-
lealth and Human Services, Department of	Direct	5 K08 HL130430-05	93.838	Lung Diseases Research	134,648	-
lealth and Human Services, Department of	Direct	5 K08 HL149051-03	93.838	Lung Diseases Research	180,525	-
ealth and Human Services, Department of	Direct	5 K23 HL140165-04	93.838	Lung Diseases Research	165,576	-
ealth and Human Services, Department of	Direct	5 K23HL151751-02	93.838	Lung Diseases Research	124,058	-
ealth and Human Services, Department of	Direct	5 K24 HL138188-05	93.838	Lung Diseases Research	94,672	-
lealth and Human Services, Department of	Direct	5 R00 HL139996-04	93.838	Lung Diseases Research	296,487	-
lealth and Human Services, Department of	Direct	5 R01 HL078871-10	93.838	Lung Diseases Research	(19,438)	-
Iealth and Human Services, Department of	Direct	5 R01 HL108904-09	93.838	Lung Diseases Research	343,725	-
Iealth and Human Services, Department of	Direct	5 R01 HL114858-08	93.838	Lung Diseases Research	(17,780)	-
lealth and Human Services, Department of	Direct	5 R01 HL116434-08	93.838	Lung Diseases Research	630,439	-
Iealth and Human Services, Department of	Direct	5 R01 HL119215-09	93.838	Lung Diseases Research	490,006	-
lealth and Human Services, Department of	Direct	5 R01 HL121774-04	93.838	Lung Diseases Research	369,045	234,5
Iealth and Human Services, Department of	Direct	5 R01 HL127203-05	93.838	Lung Diseases Research	(2,487)	-
lealth and Human Services, Department of	Direct	5 R01 HL131608-06	93.838	Lung Diseases Research	242,543	-
Iealth and Human Services, Department of	Direct	5 R01 HL134369-04	93.838	Lung Diseases Research	32,671	-
lealth and Human Services, Department of	Direct	5 R01 HL136647-04	93.838	Lung Diseases Research	207,816	73,5
lealth and Human Services, Department of	Direct	5 R01 HL137816-04	93.838	Lung Diseases Research	457,399	63,7
Iealth and Human Services, Department of	Direct	5 R01 HL138013-02	93.838	Lung Diseases Research	(234)	-
lealth and Human Services, Department of	Direct	5 R01 HL138417-04	93.838	Lung Diseases Research	563,398	-
ealth and Human Services, Department of	Direct	5 R01 HL140572-04	93.838	Lung Diseases Research	385,346	-
ealth and Human Services, Department of	Direct	5 R01 HL144660-03	93.838	Lung Diseases Research	492,072	
lealth and Human Services, Department of	Direct	5 R01 HL144849-03	93.838	Lung Diseases Research	294,267	-
lealth and Human Services, Department of	Direct	5 R01 HL145709-02	93.838	Lung Diseases Research	351,379	38,8
ealth and Human Services, Department of	Direct	5 R01 HL147261-02	93.838	Lung Diseases Research	508,306	75,4
ealth and Human Services, Department of	Direct	5 R01 HL147920-02	93.838	Lung Diseases Research	281,797	
ealth and Human Services, Department of	Direct	5 R01 HL149910-02	93.838	Lung Diseases Research	470,995	134,4
ealth and Human Services, Department of	Direct	5 R01 HL150023-02	93.838	Lung Diseases Research	485,153	37,
ealth and Human Services, Department of	Direct	5 R01HL094622-11	93.838	Lung Diseases Research	407,115	
ealth and Human Services, Department of	Direct	5 R01HL127203-07	93.838	Lung Diseases Research	490,420	
ealth and Human Services, Department of	Direct	5 R01HL139690 03	93.838	Lung Diseases Research	381,680	62,
ealth and Human Services, Department of	Direct	5 R01HL144599-03	93.838	Lung Diseases Research	415,542	
ealth and Human Services, Department of	Direct	5 R01HL153519-02	93.838	Lung Diseases Research	260,513	36,
ealth and Human Services, Department of	Direct	5 R21 HL140995-02	93.838	Lung Diseases Research	41,357	
ealth and Human Services, Department of	Direct	5 R35 HL144481-03	93.838	Lung Diseases Research	673,898	
ealth and Human Services, Department of	Direct	5 R35HL144979-03	93.838	Lung Diseases Research	962,215	
ealth and Human Services, Department of	Direct	5 R35HL150682-02	93.838	Lung Diseases Research	875,672	
ealth and Human Services, Department of	Direct	5 R61HL154095-02	93.838	Lung Diseases Research	207,485	96,
lealth and Human Services, Department of	Direct	5 U01 HL131072-04	93.838	Lung Diseases Research	406,041	138,:
ealth and Human Services, Department of	Direct	5 U01 HL137182-03	93.838	Lung Diseases Research	198,017	
lealth and Human Services, Department of	Direct	5 U01 HL143453-02	93.838	Lung Diseases Research	146,141	88,8
lealth and Human Services, Department of	Direct	5 U24 HL145265-02	93.838	Lung Diseases Research	261,799	
lealth and Human Services, Department of	Direct	5U01HL123031-07	93.838	Lung Diseases Research	397,000	73,0
lealth and Human Services, Department of	Direct	T32 HL007517	93.838	Lung Diseases Research	351,026	
				Lung Diseases Research		

				Assistance Listi	ing	F	Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures to	o Subrecipients
Health and Human Services, Department of	Direct		T32 HL007749	93.838	Lung Diseases Research	638,938	-
Health and Human Services, Department of	Direct		T35 HL007690	93.838	Lung Diseases Research	160,104	-
Health and Human Services, Department of		'hildren's Hospital Medical Center (CCHMC)	138002	93.838	Lung Diseases Research	(2,648)	-
Health and Human Services, Department of		'hildren's Hospital Medical Center (CCHMC)	138002	93.838	Lung Diseases Research	36,347	-
Health and Human Services, Department of	Pass-Through Columbia Ur		7(GG015835-02)	93.838	Lung Diseases Research	175,082	-
Health and Human Services, Department of	Pass-Through COPD Found		001	93.838	Lung Diseases Research	25,744	-
Health and Human Services, Department of	Pass-Through Cornell Univ	/ersity	193571.11	93.838	Lung Diseases Research	14,011	-
Health and Human Services, Department of	Pass-Through Cornell Univ	/ersity	203539-11/po4100666399	93.838	Lung Diseases Research	284,513	-
Health and Human Services, Department of	Pass-Through Georgia Insti	itute of Technology	RJ062-G1 / AWD-101434-G1	93.838	Lung Diseases Research	348,860	-
Health and Human Services, Department of	Pass-Through Hektoen Inst	titute for Medical Research, The	50636-R01-UMICH01	93.838	Lung Diseases Research	(25,554)	-
Health and Human Services, Department of	Pass-Through Hektoen Inst	titute for Medical Research, The	50636-R01-UMICH01	93.838	Lung Diseases Research	134,739	-
Health and Human Services, Department of	Pass-Through Hektoen Inst	titute for Medical Research, The	50639-R01-UMICH01	93.838	Lung Diseases Research	17,302	-
Health and Human Services, Department of	Pass-Through ImBio		29-2	93.838	Lung Diseases Research	(35,747)	-
Health and Human Services, Department of	Pass-Through ImBio		29-3	93.838	Lung Diseases Research	237,524	-
Health and Human Services, Department of	Pass-Through Indiana Univ	versity	8496-UM	93.838	Lung Diseases Research	23,675	-
Health and Human Services, Department of	Pass-Through Indiana Univ		8496-UM	93.838	Lung Diseases Research	5,623	-
Health and Human Services, Department of	Pass-Through Massachuset		224404	93.838	Lung Diseases Research	(617)	-
Health and Human Services, Department of	Pass-Through Massachuset		224404	93.838	Lung Diseases Research	134,644	-
Health and Human Services, Department of	Pass-Through Massachuset		235341	93.838	Lung Diseases Research	(858)	-
Health and Human Services, Department of	Pass-Through National Jew		20051813	93.838	Lung Diseases Research	7,983	-
Health and Human Services, Department of	Pass-Through National Jew		20051813	93.838	Lung Diseases Research	76,133	_
Health and Human Services, Department of	Pass-Through National Jew		20051814 20112504	93.838	Lung Diseases Research	22,208	-
	Pass-Through National Jew		20112504 20114603 Mich Sub	93.838	Lung Diseases Research	6,923	-
Health and Human Services, Department of				93.838	Lung Diseases Research		-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Northwestern Pass-Through Northwestern		60053561 MICH 60053561 MICH	93.838 93.838	Lung Diseases Research Lung Diseases Research	(6,206) 43,910	-
							-
Health and Human Services, Department of	Pass-Through NOTA Labo		Sub-Contract	93.838	Lung Diseases Research	3,664	-
Health and Human Services, Department of	Pass-Through Ohio State U		60075202	93.838	Lung Diseases Research	23,201	-
Health and Human Services, Department of		f Alabama at Birmingham (UAB)	000514640-SP004-SC003	93.838	Lung Diseases Research	7,011	-
Health and Human Services, Department of		f California - San Francisco	10443sc	93.838	Lung Diseases Research	(8)	-
Health and Human Services, Department of		f California - San Francisco	10443sc	93.838	Lung Diseases Research	(639)	-
Health and Human Services, Department of		f California - San Francisco	10443sc	93.838	Lung Diseases Research	406,251	-
Health and Human Services, Department of		f California - San Francisco	10443sc	93.838	Lung Diseases Research	25,519	-
Health and Human Services, Department of	Pass-Through University of	f North Carolina at Chapel Hill	5114594	93.838	Lung Diseases Research	6,056	-
Health and Human Services, Department of	Pass-Through University of	f North Carolina at Chapel Hill	5118115	93.838	Lung Diseases Research	59,258	-
Health and Human Services, Department of	Pass-Through University of	f Pennsylvania	577454	93.838	Lung Diseases Research	(6,679)	-
Health and Human Services, Department of	Pass-Through University of	f Pennsylvania	579545	93.838	Lung Diseases Research	36,192	-
Health and Human Services, Department of	Pass-Through University of	f Pennsylvania	579564	93.838	Lung Diseases Research	16,795	-
Health and Human Services, Department of	Pass-Through University of	f Washington	UWSC9344	93.838	Lung Diseases Research	31,536	-
Health and Human Services, Department of	Pass-Through University of	fWisconsin	000000143	93.838	Lung Diseases Research	9,067	-
Health and Human Services, Department of	Pass-Through Wayne State	2 University	WSU16126-A3	93.838	Lung Diseases Research	(9,023)	-
Health and Human Services, Department of	Pass-Through Weill Cornel	ll Medical College of Cornell University	191156-23	93.838	Lung Diseases Research	272,260	-
Health and Human Services, Department of		ll Medical College of Cornell University	192243	93.838	Lung Diseases Research	140,011	-
Health and Human Services, Department of		ll Medical College of Cornell University	193574-9	93.838	Lung Diseases Research	2,777	-
Health and Human Services, Department of		ll Medical College of Cornell University	201090-01	93.838	Lung Diseases Research	24,506	-
Health and Human Services, Department of		Il Medical College of Cornell University	203539-10	93.838	Lung Diseases Research	202,761	-
Health and Human Services, Department of		Il Medical College of Cornell University	210892-01	93.838	Lung Diseases Research	26,438	-
ritanan and ritanian ber rives, Department of	russ rinough wein conner	The deal conege of comen children,	210092 01	751050	Eang Diseases Researen	\$ 18,695,803 \$	\$ 1,155,098
Health and Human Services, Department of	Direct		1 K08 HL155408-01	93.839	Blood Diseases and Resources Research	\$ 62,017 \$	
	Direct		1 R56HL153068-01	93.839	Blood Diseases and Resources Research	270,783	, -
Health and Human Services, Department of	Direct		5 K99 HL136784-02	93.839	Blood Diseases and Resources Research	(49)	-
Health and Human Services, Department of				93.839			-
Health and Human Services, Department of	Direct		5 F31 HL152563-02		Blood Diseases and Resources Research	42,616	-
Health and Human Services, Department of	Direct		5 F32 HL149280-02	93.839	Blood Diseases and Resources Research	9,029	-
Health and Human Services, Department of	Direct		5 K01 HL135392-05	93.839	Blood Diseases and Resources Research	180,798	-
Health and Human Services, Department of	Direct		5 K08 HL128794-05	93.839	Blood Diseases and Resources Research	(1,632)	
Health and Human Services, Department of	Direct		5 P01 HL146372-03	93.839	Blood Diseases and Resources Research	1,818,240	1,042,906
Health and Human Services, Department of	Direct		5 P01 HL149633-02	93.839	Blood Diseases and Resources Research	1,586,695	-
Health and Human Services, Department of	Direct		5 R01 HL039693-25	93.839	Blood Diseases and Resources Research	(1,681)	(1,681)
Health and Human Services, Department of	Direct		5 R01 HL055374-19	93.839	Blood Diseases and Resources Research	(17,761)	-
Health and Human Services, Department of	Direct		5 R01 HL128046-05	93.839	Blood Diseases and Resources Research	109,125	-
Health and Human Services, Department of	Direct		5 R01 HL132392-05	93.839	Blood Diseases and Resources Research	(234,920)	-
Health and Human Services, Department of	Direct		5 R01 HL136420-04	93.839	Blood Diseases and Resources Research	330,064	9,142
Health and Human Services, Department of	Direct		5 R01 HL137919-05	93.839	Blood Diseases and Resources Research	522,509	10,145
Health and Human Services, Department of	Direct		5 R01 HL141399-04	93.839	Blood Diseases and Resources Research	483,944	-
Health and Human Services, Department of	Direct		5 R01 HL146354-03	93.839	Blood Diseases and Resources Research	366,277	-
	Direct		5 R01 HL148333-03	93.839	Blood Diseases and Resources Research	761,534	-
Health and Human Services, Department of			5 R01 HL150392-02	93.839	Blood Diseases and Resources Research	415,365	-
Health and Human Services, Department of Health and Human Services, Department of	Direct			93.839	Blood Diseases and Resources Research	386,876	-
Health and Human Services, Department of			5 R01 HL150707-02				
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 R01 HL150707-02 5 R01 HL152605-02				-
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5 R01 HL152605-02	93.839	Blood Diseases and Resources Research	439,444	-
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of	Direct Direct Direct		5 R01 HL152605-02 5 R01HL055374-22	93.839 93.839	Blood Diseases and Resources Research Blood Diseases and Resources Research	439,444 612,264	- - 137.937
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct Direct Direct		5 R01 HL152605-02 5 R01HL055374-22 5 R01HL144550-02	93.839 93.839 93.839	Blood Diseases and Resources Research Blood Diseases and Resources Research Blood Diseases and Resources Research	439,444 612,264 530,455	137,937
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of	Direct Direct Direct		5 R01 HL152605-02 5 R01HL055374-22	93.839 93.839	Blood Diseases and Resources Research Blood Diseases and Resources Research	439,444 612,264	

Cluster Title/Federal Grantor/Program Iealth and Human Services, Department of Iealth and Human Services, Department of Iealth and Human Services, Department of Iealth and Human Services, Department of	Type Pass-Through Grantor Direct Direct	Award Identifier 5 R35 HL150784-02 5 UG1HL069330-21	93.839	Assistance Listing Program Title Blood Diseases and Resources Research	Federal Expenditures 622,780	to Subrecipient
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of	Direct				022,700	
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of			93.839	Blood Diseases and Resources Research	124,850	_
Iealth and Human Services, Department of Iealth and Human Services, Department of	Direct	7 UM1 HL120877-05	93.839	Blood Diseases and Resources Research	1,442,886	1,172,969
Health and Human Services, Department of	Direct	T32 HL007622	93.839	Blood Diseases and Resources Research	441,409	1,172,903
			93.839			-
	Pass-Through Baylor College of Medicine	PO#7000001031		Blood Diseases and Resources Research Blood Diseases and Resources Research	31,417	-
Iealth and Human Services, Department of	Pass-Through Case Western Reserve University	RES516041	93.839		6,376	-
Iealth and Human Services, Department of	Pass-Through Cincinnati Children's Hospital Medical Center (CCHMC)	302525/PO3100580964	93.839	Blood Diseases and Resources Research	2,798	-
Health and Human Services, Department of	Pass-Through Hutchinson, Fred, Cancer Research Center	0000996107	93.839	Blood Diseases and Resources Research	(5,048)	-
Iealth and Human Services, Department of	Pass-Through Hutchinson, Fred, Cancer Research Center	0001028641	93.839	Blood Diseases and Resources Research	107,449	-
Iealth and Human Services, Department of	Pass-Through Hutchinson, Fred, Cancer Research Center	0001044377	93.839	Blood Diseases and Resources Research	44,520	-
Iealth and Human Services, Department of	Pass-Through Massachusetts General Hospital	230952	93.839	Blood Diseases and Resources Research	12,837	-
lealth and Human Services, Department of	Pass-Through North Carolina State University	2018-1327-01	93.839	Blood Diseases and Resources Research	71,062	-
lealth and Human Services, Department of	Pass-Through State University of New York (SUNY)	1146045-81096	93.839	Blood Diseases and Resources Research	144,983	-
ealth and Human Services, Department of	Pass-Through State University of New York (SUNY)	1146045-81096	93.839	Blood Diseases and Resources Research	34,151	-
ealth and Human Services, Department of	Pass-Through The University of Texas Health Science Center at Houston	0013267E	93.839	Blood Diseases and Resources Research	3,963	-
ealth and Human Services, Department of	Pass-Through The University of Texas Health Science Center at Houston	0014251C	93.839	Blood Diseases and Resources Research	5,918	-
ealth and Human Services, Department of	Pass-Through University of Georgia	SUB00001636	93.839	Blood Diseases and Resources Research	45,717	-
ealth and Human Services, Department of	Pass-Through University of Illinois-Urbana-Champaign	092532-17155	93.839	Blood Diseases and Resources Research	276,560	-
ealth and Human Services, Department of	Pass-Through University of Rochester	417817G / UR FAO GR511100	93.839	Blood Diseases and Resources Research	53,453	-
ealth and Human Services, Department of	Pass-Through University of Tennessee - Health Science Center	20-2420-Mich	93.839	Blood Diseases and Resources Research	157	_
ealth and Human Services, Department of	Pass-Through University of Tennessee - Health Science Center	20-2420-MICH	93.839	Blood Diseases and Resources Research	113,780	-
						-
ealth and Human Services, Department of	Pass-Through University of Tennessee - Health Science Center	21-3233-MICH	93.839	Blood Diseases and Resources Research	40,161 \$ 12,998,609	\$ 2,371,41
				Translation and Implementation Science Research for Heart,	» 12,998,609	\$ 2,3/1,41
		5 1/10/11 10/000 05	00.040		e	â
ealth and Human Services, Department of	Direct	5 K12HL138039-05	93.840	Lung, Blood Diseases, and Sleep Disorders	\$ 758,453	3 -
				Translation and Implementation Science Research for Heart,		
ealth and Human Services, Department of	Pass-Through Johns Hopkins University	2004913428	93.840	Lung, Blood Diseases, and Sleep Disorders	34,483	-
					\$ 792,936	
ealth and Human Services, Department of	Direct	1 F31 AR078592-01	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	\$ 6,147	s -
ealth and Human Services, Department of	Direct	1 R01 AR077538 01A1	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	5,611	-
ealth and Human Services, Department of	Direct	1 R21 AR07774101-A1	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	3,100	-
alth and Human Services, Department of	Direct	1 R56 AR076384-01A1	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	239,848	-
alth and Human Services, Department of	Direct	1 R56AR075638-01A1	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	184,601	-
alth and Human Services, Department of	Direct	1-R13AR076206-01	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	3,442	2,47
ealth and Human Services, Department of	Direct	2 R56AR04204724-A1	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	449,550	
ealth and Human Services, Department of	Direct	3 U19AR076734 01S2	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	1,237,587	
						-
ealth and Human Services, Department of	Direct	4 R33 AR073014-03	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	134,558	-
ealth and Human Services, Department of	Direct	5 F31 AR077988-02	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	34,708	-
ealth and Human Services, Department of	Direct	5 K01 AR070281 05	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	137,558	-
ealth and Human Services, Department of	Direct	5 K01 AR071503-04	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	106,906	-
ealth and Human Services, Department of	Direct	5 K01 AR072129-05	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	111,819	-
ealth and Human Services, Department of	Direct	5 K08 AR073933-03	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	181,180	-
ealth and Human Services, Department of	Direct	5 K24 AR063120-09	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	137,579	-
alth and Human Services, Department of	Direct	5 K24 AR076975-02	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	104,910	-
alth and Human Services, Department of	Direct	5 P30 AR069620-05	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	655,465	-
alth and Human Services, Department of	Direct	5 P30 AR075043-03	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	719,985	-
alth and Human Services, Department of	Direct	5 P50 AR070600-05	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	986,378	
alth and Human Services, Department of	Direct		93.846		339,751	
		5 R01 AR042742-24		Arthritis, Musculoskeletal and Skin Diseases Research		-
alth and Human Services, Department of	Direct	5 R01 AR044232-25	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	216,202	-
alth and Human Services, Department of	Direct	5 R01 AR054821-11	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	274,497	-
alth and Human Services, Department of	Direct	5 R01 AR059085-10	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	318,597	-
alth and Human Services, Department of	Direct	5 R01 AR060350-10	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	428,163	134,6
alth and Human Services, Department of	Direct	5 R01 AR062636-05	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	104,328	-
alth and Human Services, Department of	Direct	5 R01 AR065424-05	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	(42,557)	-
lth and Human Services, Department of	Direct	5 R01 AR066028-06	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	242,727	-
lth and Human Services, Department of	Direct	5 R01 AR067744-05	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	229,744	-
Ith and Human Services, Department of	Direct	5 R01 AR068428-05	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	262,494	
th and Human Services, Department of	Direct	5 R01 AR068452-04	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	374,694	82,1
th and Human Services, Department of	Direct	5 R01 AR069071-05	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	187,223	64,3
Ith and Human Services, Department of			93.846			04,2
	Direct	5 R01 AR069303-05		Arthritis, Musculoskeletal and Skin Diseases Research	313,100	
th and Human Services, Department of	Direct	5 R01 AR070470-03	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	187,850	33,7
ilth and Human Services, Department of	Direct	5 R01 AR071379-04	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	6,158	-
ilth and Human Services, Department of	Direct	5 R01 AR071384-05	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	354,645	13,8
Ith and Human Services, Department of	Direct	5 R01 AR073022-02	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	25,153	-
lth and Human Services, Department of	Direct	5 R01 AR074079-02	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	242,085	74,8
Ith and Human Services, Department of	Direct	5 R01 AR074930-03	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	572,261	
Ith and Human Services, Department of	Direct	5 R01 AR075168 03	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	377,462	
Ith and Human Services, Department of	Direct	5 R01AR063611 08	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	951,646	221,9
		5 R21 AR072314-02	93.846	Arthritis, Musculoskeletal and Skin Diseases Research		221,9
	Direct Direct	5 R21 AR072314-02 5 R21 AR072336-02	93.846 93.846	Arthritis, Musculoskeletal and Skin Diseases Research Arthritis, Musculoskeletal and Skin Diseases Research	7,650 22,837	-
						-
alth and Human Services, Department of alth and Human Services, Department of alth and Human Services, Department of	Direct	5 R21 AR072530-02 5 R21 AR072817-02	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	123,539	

				Assistance Listi	ng		Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
Health and Human Services, Department of	Direct		5 R21 AR074011-02	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	(820)	-
Health and Human Services, Department of	Direct		5 R21 AR074794-02	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	9,724	-
Health and Human Services, Department of	Direct		5 R21 AR075197-02	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	182,078	-
Health and Human Services, Department of	Direct		5 R61 AR078073 02	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	221,847	11,844
Health and Human Services, Department of	Direct		5 U01 AR073485-03	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	581,446	-
Health and Human Services, Department of	Direct		7 R01 AR042047-23	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	(14,334)	-
Health and Human Services, Department of	Direct		7 R01 AR074997-03	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	148,349	-
Health and Human Services, Department of	Direct		T32 AR007080	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	287,726	-
Health and Human Services, Department of	Direct	: 10 I	T32 AR007197	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	188,670	-
Health and Human Services, Department of	Pass-Through Cayman Cher		Subcontract	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	241,585	-
Health and Human Services, Department of	Pass-Through Columbia Me Pass-Through Johns Hopkin		1(GG012858-01)G01644	93.846 93.846	Arthritis, Musculoskeletal and Skin Diseases Research Arthritis, Musculoskeletal and Skin Diseases Research	6,776 38,854	-
Health and Human Services, Department of	Pass-Through Mayo Clinic	is University	2003835464 LIOM 251421/BO #66541749	93.846 93.846	Arthritis, Musculoskeletal and Skin Diseases Research	(7,435)	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Mayo Clinic Pass-Through Mayo Clinic		UOM-251431/PO #66541749 UOM-251431-01	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	57,230	-
Health and Human Services, Department of	Pass-Through Mayo Clinic		UOM-251431-01	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	8,535	-
Health and Human Services, Department of	Pass-Through MDI Therape	autics	Subcontract	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	112,060	
Health and Human Services, Department of	Pass-Through New York Ur		20-A0-S1-003268/117823	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	66,122	
Health and Human Services, Department of	Pass-Through Northwell He		500678UMICH	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	47,502	
Health and Human Services, Department of	Pass-Through Northwell He		500678-UMICH	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	17,364	_
Health and Human Services, Department of	Pass-Through Northwestern		60053466 UM	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	18,121	
Health and Human Services, Department of		ty of Texas Southwestern Medical Center	GMO210209 PO000002257	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	37,376	
Health and Human Services, Department of Health and Human Services, Department of		ty of Texas Southwestern Medical Center	PO000002087 GM0211001	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	13,980	-
Health and Human Services, Department of		Alabama at Birmingham (UAB)	000516313-001	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	64,865	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through University of		101797-18182	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	25,468	-
Health and Human Services, Department of	Pass-Through University of		S02003-01	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	36,267	
Health and Human Services, Department of	Pass-Through University of		N008559001	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	10,485	-
Health and Human Services, Department of	Pass-Through University of		576598	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	3,447	
Health and Human Services, Department of	Pass-Through University of		AWD00001277 (133933-17)	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	321	_
Health and Human Services, Department of	Pass-Through University of		AWD00001277 (133933-17) AWD00001277 (133933-17)	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	1,147	-
Health and Human Services, Department of	Pass-Through University of		0000000035	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	2,558	
Health and Human Services, Department of	Pass-Through University of		0000000903	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	15,277	_
Health and Human Services, Department of	Pass-Through Washington S		131344 SPC001583	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	9,240	
Health and Human Services, Department of	Pass-Through Washington U		WU-21-63	93.846	Arthritis, Musculoskeletal and Skin Diseases Research	81,578	_
reatin and ruman services, Department of	Tass-Through Washington C	Shive sity in St. Louis	W0-21-05	95.840	Arunnis, Musculoskeletar and Skin Diseases Researen	\$ 14,074,921	\$ 639,913
Health and Human Services, Department of	Direct		1 F32 DK115340-01A1	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research		\$ -
Health and Human Services, Department of	Direct		1 F32 DK126232-01	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		-
Health and Human Services, Department of	Direct		1 K01 DK119166-01A1	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		1 K01 DK124450-01A1	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		1 K23 DK124567-01A1	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		1 K23 DK125529-01A1	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		
Health and Human Services, Department of	Direct		1 R01 DK121759 02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		1 R01 DK124862-01 A1	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research		_
Health and Human Services, Department of	Direct		1 R01 DK125687-01	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		1 R01 DK125830-01A1	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research		_
Health and Human Services, Department of	Direct		1 R01 DK125531-01A1	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		1 R21 DK124768-01A1	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research		_
Health and Human Services, Department of	Direct		1 R56 DK121787-01A1	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		1 R56 DK126328-01	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		1 R56 DK126526-01	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		
Health and Human Services, Department of	Direct		1 R56 DK126675-01	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		2 R01 DK046409 28	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		2 R01 DK040409 28 2 R01 DK079392-15	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research		-
Health and Human Services, Department of	Direct		2 R01 DK090262-10	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		
Health and Human Services, Department of	Direct		2 R01 DK050202-10 2 R01 DK107583-06A1	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		2 R61 DR10/383-00A1 2 R56 DK053904-18	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research		-
Health and Human Services, Department of	Direct		3 K08DK102526-05S1	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		3U54DK083912-10S1	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		-
Health and Human Services, Department of	Direct		4 R01 DK053904-17	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		5 F30 DK117615-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		5 F30 DK121463-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		5 F31 DK117610-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research		-
Health and Human Services, Department of	Direct		5 F31 DK118811-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		-
Health and Human Services, Department of	Direct		5 F31 DK122723-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		5 F31 DK122724-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		5 F31 DK122753-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		5 F31 DK122761-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		5 F31 DK125007-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		5 F32 DK117522-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of	Direct		5 F32 DK117545-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research		_
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 F32 DK117545-02 5 F32 DK118800-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research		-
Health and Human Services, Department of	Direct		5 F32 DK118800-02 5 F32 DK120111-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research		-
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 F32 DK120111-05 5 F32 DK121469-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research		-
reater and ruman Services, Department of	Ditte		J 1 JZ DK121407-02	73.04/	Diasces, Digestive, and Kioney Diseases Extramutal Research	00,710	-

				Assistance Listi			Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
Health and Human Services, Department of	Direct		5 F32 DK122654-02	93.847 93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	40,646	-
Health and Human Services, Department of	Direct Direct		5 F32 DK122660-02 5 F32 DK123887-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	74,590 60,162	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 F32 DK125887-02 5 F32 DK126471-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	75,147	-
Health and Human Services, Department of	Direct		5 F99 DK126121-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research	37,579	-
Health and Human Services, Department of	Direct		5 K01 DK126121-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	149,320	-
Health and Human Services, Department of	Direct		5 K01 DK100322-0531 5 K01 DK107456-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research	149,520	-
Health and Human Services, Department of	Direct		5 K01 DK10/450-05 5 K01 DK116928-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research	102,048	-
Health and Human Services, Department of	Direct		5 K08 DK106523-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research	58,759	
Health and Human Services, Department of	Direct		5 K08 DK109116-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research	114,026	_
Health and Human Services, Department of	Direct		5 K08 DK120948-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research	143,886	_
Health and Human Services, Department of	Direct		5 K08 DK122114-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	197,460	_
Health and Human Services, Department of	Direct		5 K08 DK123403-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research	134,175	_
Health and Human Services, Department of	Direct		5 K08 DK124449-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research	156,150	-
Health and Human Services, Department of	Direct		5 K08 DK124687-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	134,654	-
Health and Human Services, Department of	Direct		5 K08DK115891-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	145,440	-
Health and Human Services, Department of	Direct		5 K08DK125776-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	144,306	-
Health and Human Services, Department of	Direct		5 K12 DK111011-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	212,129	-
Health and Human Services, Department of	Direct		5 K23 DK101687-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	1,512	-
Health and Human Services, Department of	Direct		5 K23 DK117055-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	193,127	-
Health and Human Services, Department of	Direct		5 K23 DK118179-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	232,827	-
Health and Human Services, Department of	Direct		5 K23 DK123413-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research	143,943	-
Health and Human Services, Department of	Direct		5 K23 DK123416-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research	139,066	-
Health and Human Services, Department of	Direct		5 K99 DK119366 02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	107,143	-
Health and Human Services, Department of	Direct		5 K99 DK127065-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	63,297	-
Health and Human Services, Department of	Direct		5 P01 DK117821-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	1,801,350	76,312
Health and Human Services, Department of	Direct		5 P30 DK020572-44	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	1,897,151	64,390
Health and Human Services, Department of	Direct		5 P30 DK034933-35	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	1,150,684	_
Health and Human Services, Department of	Direct		5 P30 DK089503-10	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	1,599	-
Health and Human Services, Department of	Direct		5 P30 DK089503-12	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	963,302	-
Health and Human Services, Department of	Direct		5 P30DK081943-14	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	530,824	53,881
Health and Human Services, Department of	Direct		5 P30DK092926-10	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	471,753	68,168
Health and Human Services, Department of	Direct		5 R00 DK099240-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	310	_
Health and Human Services, Department of	Direct		5 R01 DK 119188-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	461,534	-
Health and Human Services, Department of	Direct		5 R01 DK040344-30	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(66)	-
Health and Human Services, Department of	Direct		5 R01 DK042303-30	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	381,969	-
Health and Human Services, Department of	Direct		5 R01 DK043140-24	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	323,673	-
Health and Human Services, Department of	Direct		5 R01 DK046409-26	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(66,442)	-
Health and Human Services, Department of	Direct		5 R01 DK046960-28	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	287,757	-
Health and Human Services, Department of	Direct		5 R01 DK048280-27	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	470,764	-
Health and Human Services, Department of	Direct		5 R01 DK054222-20	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	371,348	-
Health and Human Services, Department of	Direct		5 R01 DK055679-22	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	615,199	-
Health and Human Services, Department of	Direct		5 R01 DK056731-23	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	425,283	-
Health and Human Services, Department of	Direct		5 R01 DK059888-20	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	382,159	-
Health and Human Services, Department of	Direct		5 R01 DK061379-18	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	525,681	-
Health and Human Services, Department of	Direct		5 R01 DK066604-13	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(1,043)	
Health and Human Services, Department of	Direct		5 R01 DK068400 17	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	434,392	135,581
Health and Human Services, Department of	Direct		5 R01 DK068400-14	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(141)	
Health and Human Services, Department of	Direct		5 R01 DK069950-14	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	246,696	802
Health and Human Services, Department of	Direct		5 R01 DK071771-12	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	427,256	24,596
Health and Human Services, Department of	Direct		5 R01 DK072564-25	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	448,153	-
Health and Human Services, Department of	Direct		5 R01 DK073722-14	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	212,512	-
Health and Human Services, Department of	Direct		5 R01 DK077966-10	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	467,563	-
Health and Human Services, Department of	Direct		5 R01 DK079392-14	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	92,743	
Health and Human Services, Department of	Direct		5 R01 DK089763-09	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	270,452	110,777
Health and Human Services, Department of	Direct		5 R01 DK089933-09	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(19,977)	
Health and Human Services, Department of	Direct		5 R01 DK090262-09	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(8,161)	
Health and Human Services, Department of	Direct		5 R01 DK091191-14	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(8,901)	-
Health and Human Services, Department of	Direct		5 R01 DK091267-09	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	193,330	
Health and Human Services, Department of	Direct		5 R01 DK093513-08	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	302,584	37,010
Health and Human Services, Department of	Direct		5 R01 DK094777-09	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(408,050)	-
Health and Human Services, Department of	Direct		5 R01 DK095201-09	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	279,415	-
Health and Human Services, Department of	Direct		5 R01 DK095782-09	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	438,739	-
Health and Human Services, Department of	Direct		5 R01 DK101473-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(1,273)	-
Health and Human Services, Department of	Direct		5 R01 DK102456-07	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	534,324	-
Health and Human Services, Department of	Direct		5 R01 DK102850-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	157,756	-
Health and Human Services, Department of	Direct		5 R01 DK104733-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	438,272	-
Health and Human Services, Department of	Direct		5 R01 DK104999-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	235,489	-
Health and Human Services, Department of	Direct		5 R01 DK106188- 05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	250,013	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 R01 DK106618-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(284)	
	Direct		5 R01 DK106618-06	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	599,926	117,103
Health and Human Services, Department of	Direct		5 R01 DK106621-05	93.847		84,606	41,105

				Assistance Listin	g		Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
Health and Human Services, Department of	Direct		5 R01 DK107282-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	71,182	-
Health and Human Services, Department of	Direct		5 R01 DK107535-06	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	247,107	-
Health and Human Services, Department of	Direct		5 R01 DK107583-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	248,095	-
Health and Human Services, Department of	Direct		5 R01 DK107730-05	93.847 93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	426,245 303,139	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5 R01 DK107754-04 5 R01 DK107904-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	485,192	109,739
Health and Human Services, Department of	Direct		5 R01 DK107956-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramular Research Diabetes, Digestive, and Kidney Diseases Extramular Research	382,302	109,739
Health and Human Services, Department of	Direct		5 R01 DK108805-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research	(1,063)	) (1,063)
Health and Human Services, Department of	Direct		5 R01 DK108901-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	393,806	-
Health and Human Services, Department of	Direct		5 R01 DK108921-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	160,287	-
Health and Human Services, Department of	Direct		5 R01 DK109032-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	197,716	8,218
Health and Human Services, Department of	Direct		5 R01 DK109948-06	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	461,652	-
Health and Human Services, Department of	Direct		5 R01 DK109995-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	188,098	-
Health and Human Services, Department of	Direct		5 R01 DK110273-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	312,049	-
Health and Human Services, Department of	Direct		5 R01 DK110436-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(320,782)	, -
Health and Human Services, Department of	Direct		5 R01 DK111174-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	20,305	-
Health and Human Services, Department of	Direct		5 R01 DK111174-06	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	596,203	-
Health and Human Services, Department of	Direct		5 R01 DK111465-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	273,161	-
Health and Human Services, Department of	Direct		5 R01 DK112755-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	425,249	-
Health and Human Services, Department of	Direct		5 R01 DK112800-05	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	389,571	-
Health and Human Services, Department of	Direct		5 R01 DK114131-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	171,760	-
Health and Human Services, Department of	Direct		5 R01 DK115190-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	475,483	1 702
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5 R01 DK115408-04 5 R01 DK115474-03	93.847 93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	664,012 255,270	1,703 25,717
Health and Human Services, Department of	Direct		5 R01 DK115526-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramular Research Diabetes, Digestive, and Kidney Diseases Extramular Research	268,506	23,717
Health and Human Services, Department of	Direct		5 R01 DK115583-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research	464,623	9,301
Health and Human Services, Department of	Direct		5 R01 DK115646-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramular Research Diabetes, Digestive, and Kidney Diseases Extramular Research	247,667	9,501
Health and Human Services, Department of	Direct		5 R01 DK115687-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	597,977	29,368
Health and Human Services, Department of	Direct		5 R01 DK115844-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	498,104	50,581
Health and Human Services, Department of	Direct		5 R01 DK116715-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	762,097	-
Health and Human Services, Department of	Direct		5 R01 DK117565-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	462,737	-
Health and Human Services, Department of	Direct		5 R01 DK117639 03S1	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	599,686	272,350
Health and Human Services, Department of	Direct		5 R01 DK117960-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	428,114	-
Health and Human Services, Department of	Direct		5 R01 DK118023-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	423,368	-
Health and Human Services, Department of	Direct		5 R01 DK118024-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	452,265	-
Health and Human Services, Department of	Direct		5 R01 DK118154-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	431,868	-
Health and Human Services, Department of	Direct		5 R01 DK118731-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	426,123	-
Health and Human Services, Department of	Direct		5 R01 DK119219-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	183,366	-
Health and Human Services, Department of	Direct		5 R01 DK120047-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	293,034	-
Health and Human Services, Department of	Direct		5 R01 DK120330-04	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	525,391	267,310
Health and Human Services, Department of	Direct		5 R01 DK120623-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	594,889	219,638
Health and Human Services, Department of	Direct		5 R01 DK121166-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	245,904	-
Health and Human Services, Department of	Direct Direct		5 R01 DK121462-02 5 R01 DK121709-02	93.847 93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	378,603 238,533	22.049
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 R01 DK121709-02 5 R01 DK121785-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	236,756	22,048
Health and Human Services, Department of	Direct		5 R01 DK121995-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramular Research Diabetes, Digestive, and Kidney Diseases Extramular Research	158,293	153,322
Health and Human Services, Department of	Direct		5 R01 DK122350-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research	648,627	-
Health and Human Services, Department of	Direct		5 R01 DK122812-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research	478,957	_
Health and Human Services, Department of	Direct		5 R01 DK123022-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	193,786	-
Health and Human Services, Department of	Direct		5 R01 DK123164-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	353,275	37,830
Health and Human Services, Department of	Direct		5 R01 DK124290-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	280,737	18,442
Health and Human Services, Department of	Direct		5 R01 DK124779-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	440,936	-
Health and Human Services, Department of	Direct		5 R01 DK125087-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	614,609	-
Health and Human Services, Department of	Direct		5 R01 DK125445-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	583,938	80,753
Health and Human Services, Department of	Direct		5 R01 DK125513 02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	161,985	-
Health and Human Services, Department of	Direct		5 R01 DK126011-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	259,297	-
Health and Human Services, Department of	Direct		5 R01 DK126715-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	232,695	31,464
Health and Human Services, Department of	Direct		5 R01DK045776-30	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	445,411	-
Health and Human Services, Department of	Direct		5 R01DK054740-21	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	547,622	-
Health and Human Services, Department of	Direct		5 R01DK114220-04S1	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	279,760	-
Health and Human Services, Department of	Direct		5 R01DK121170 03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	305,115	-
Health and Human Services, Department of	Direct		5 R01DK121504 03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	493,080	-
Health and Human Services, Department of	Direct		5 R03 DK124741-02	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	41,872	26 571
Health and Human Services, Department of	Direct		5 R03DK121941-02	93.847 93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	102,763	26,571
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5 R18 DK122418-03 5 R21 DK109447-02	93.847 93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	508,043 (4,680)	-
Health and Human Services, Department of	Direct		5 R24 DK082841-11	93.847	Diabetes, Digestive, and Kidney Diseases Extramutal Research Diabetes, Digestive, and Kidney Diseases Extramutal Research	1,469,146	153,205
Health and Human Services, Department of	Direct		5 R25 DK088752-10	93.847	Diabetes, Digestive, and Kidney Diseases Extramular Research Diabetes, Digestive, and Kidney Diseases Extramular Research	50,826	
Health and Human Services, Department of	Direct		5 RC2DK122379 03	93.847	Diabetes, Digestive, and Kidney Diseases Extramular Research	709,202	_
Health and Human Services, Department of	Direct		5 U01 DK062456-17	93.847	Diabetes, Digestive, and Ridney Diseases Extramutal Research	(16,924)	
Health and Human Services, Department of	Direct		5 U01 DK065184-18	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	249,266	
Health and Human Services, Department of	Direct		5 U01 DK082345-13	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	291,559	-
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Health and Human Services, Department of Health and Human Services, Department ofPass-Through George Washington UniversitySubaward S-GRD1920-TR3993.847Diabetes, Digestive, and Kidney Diseases Extramural Research238,225-Health and Human Services, Department ofPass-Through Indiana University815_UM93.847Diabetes, Digestive, and Kidney Diseases Extramural Research74,497-Health and Human Services, Department ofPass-Through Indiana UniversityIN4689775UM93.847Diabetes, Digestive, and Kidney Diseases Extramural Research18,109-Health and Human Services, Department ofPass-Through Johns Hopkins University200400143793.847Diabetes, Digestive, and Kidney Diseases Extramural Research18,139-Health and Human Services, Department ofPass-Through Joslin Diabetes Center10006193.847Diabetes, Digestive, and Kidney Diseases Extramural Research(413)-Health and Human Services, Department ofPass-Through Joslin Diabetes Center10013793.847Diabetes, Digestive, and Kidney Diseases Extramural Research12,807-Health and Human Services, Department ofPass-Through Joslin Diabetes Center10013793.847Diabetes, Digestive, and Kidney Diseases Extramural Research84.92-Health and Human Services, Department ofPass-Through Kaiser Permanente Northern CaliforniaRNC209397-0193.847Diabetes, Digestive, and Kidney Diseases Extramural Research84.92-Health and Human Services, Department ofPass-Through Maine Medical CenterRNC209397-0193.847Diabe	Health and Human Services, Department of	Pass-Through George Washing	ton University	S-GRD1819-LU27	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	6,566	-
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			Assistance Listi			Passed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Through Granto	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
Health and Human Services, Department of	Pass-Through Massachusetts General Hospital	233274	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	5,607 101,212	-
Health and Human Services, Department of	Pass-Through Massachusetts General Hospital	236801	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research		-
Health and Human Services, Department of	Pass-Through Northern California Institute for Research & Education, Pass-Through Northwestern University	nc. (NCIRE) SCH2284-02 60042628 UM	93.847 93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	16,328 101,091	-
Health and Human Services, Department of	Pass-Through NOTA Laboratories LLC	Roundtable Research Agreement	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	101,091	-
Health and Human Services, Department of	Pass-Through NOTA Laboratories LLC Pass-Through Ohio State University, The	60062217/PO#RFO1500664	93.847		6,136	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Sanford Burnham Prebys Medical Research Institute	59630-12824-MSU	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	6,642	-
					495	-
Health and Human Services, Department of	Pass-Through Sanford Burnham Prebys Medical Research Institute Pass-Through The Icahn School of Medicine at Mount Sinai (ISMMS)	59630-12824-UM 0255-A942-4609	93.847 93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	(2,733)	-
Health and Human Services, Department of			93.847			-
Health and Human Services, Department of	Pass-Through The Icahn School of Medicine at Mount Sinai (ISMMS) Pass-Through The University of Kansas Medical Center (KUMC)	0255-A943-4609 Z8O00000	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	17,172 2,943	-
Health and Human Services, Department of	Pass-Through The University of Texas Health Science Center at Housi		93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	43,034	-
Health and Human Services, Department of					43,034 38,954	-
Health and Human Services, Department of	Pass-Through The University of Texas Southwestern Medical Center Pass-Through The University of Texas Southwestern Medical Center	GMO 160234 PO00000976E GMO 160234 PO00000979F	93.847 93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	8,433	-
Health and Human Services, Department of					215,354	-
Health and Human Services, Department of	Pass-Through Transtimulation Research Inc Pass-Through University of Arizona	20-PAF06977 474781	93.847 93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research Diabetes, Digestive, and Kidney Diseases Extramural Research	38,232	-
Health and Human Services, Department of			93.847			-
Health and Human Services, Department of	Pass-Through University of Arizona	477772	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(3,923)	-
Health and Human Services, Department of	Pass-Through University of California - San Francisco	10787sc		Diabetes, Digestive, and Kidney Diseases Extramural Research	16,357	-
Health and Human Services, Department of	Pass-Through University of California - San Francisco	12484sc	93.847 93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	18,944 23,483	-
Health and Human Services, Department of	Pass-Through University of California - San Francisco	12651sc		Diabetes, Digestive, and Kidney Diseases Extramural Research		-
Health and Human Services, Department of	Pass-Through University of California-San Diego	R01DK122804	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	311,453	-
Health and Human Services, Department of	Pass-Through University of California-Santa Cruz	A17-0039-S002-P0630740	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	100,104	-
Health and Human Services, Department of	Pass-Through University of Chicago	FP068366-01 C	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(8,797)	-
Health and Human Services, Department of	Pass-Through University of Chicago	FP068366-01C (5302838601-5)	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	91,164	-
Health and Human Services, Department of	Pass-Through University of Ghana	9U54DK116913-p	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	5,370	-
Health and Human Services, Department of	Pass-Through University of Illinois at Chicago	17635	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	8,320	-
Health and Human Services, Department of	Pass-Through University of Miami, Florida, The	OS00000509	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	8,051	-
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel Hill	5107938	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	122,258	-
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel Hill	5113543	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	6,305	-
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel Hill	5117189	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	166,557	-
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel Hill	5118942	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	53,381	-
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel Hill	5119067	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	266,751	-
Health and Human Services, Department of	Pass-Through University of Pennsylvania	572695	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	43,294	-
Health and Human Services, Department of	Pass-Through University of Pennsylvania	575038	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	35,047	-
Health and Human Services, Department of	Pass-Through University of Pennsylvania	575038/4336190	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(4,451)	-
Health and Human Services, Department of	Pass-Through University of Pennsylvania	578031/PO4669874	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	50,995	-
Health and Human Services, Department of	Pass-Through University of Pittsburgh Medical Center (UPMC)	0061363 (131441-2)	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	34,246	-
Health and Human Services, Department of	Pass-Through University of Utah	10045205-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(3,191)	-
Health and Human Services, Department of	Pass-Through University of Utah	10045205-03	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	21,583	-
Health and Human Services, Department of	Pass-Through University of Virginia	GO12566.PO #2108545	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(1,298)	-
Health and Human Services, Department of	Pass-Through University of Washington	UWSC10198	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	1,279,316	-
Health and Human Services, Department of	Pass-Through University of Washington	UWSC10198/BPO26988	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(278,314)	-
Health and Human Services, Department of	Pass-Through University of Washington	UWSC12256	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	24,878	-
Health and Human Services, Department of	Pass-Through University of Washington	UWSC12327	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	15,565	-
Health and Human Services, Department of	Pass-Through Vanderbilt University	VUMC74085	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	28,958	-
Health and Human Services, Department of	Pass-Through Virginia Commonwealth University	FP00005212 SA002	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	29,207	-
Health and Human Services, Department of	Pass-Through Wake Forest University	WFUHS 114580	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	(2,258)	-
Health and Human Services, Department of	Pass-Through Wayne State University	WSU16006	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	15,681	-
Health and Human Services, Department of	Pass-Through Wayne State University	WSU16145-A3	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	32,199	-
Health and Human Services, Department of	Pass-Through Wayne State University	WSU20086-A1	93.847	Diabetes, Digestive, and Kidney Diseases Extramural Research	22,624	-
					\$ 69,450,189	\$ 7,183,214
				Improving Epilepsy Programs, Services, and Outcomes through		,,
Health and Human Services, Department of	Direct	5 F31 NS120492-02	93.850	National Partnerships	\$ 36,586	s -
,,,				Extramural Research Programs in the Neurosciences and	,	*
Health and Human Services, Department of	Direct	1 F31 NS110119 - 01A1	93.853	Neurological Disorders	\$ 37,574	\$ _
readin and riankin Services, Department of	bittet	1151 (011011) - 0111	75.055	Extramural Research Programs in the Neurosciences and	φ 51,514	<b>9</b> -
Health and Human Services, Department of	Direct	1 F31 NS113433-01A1	93.853	Neurological Disorders	19,700	
Health and Human Services, Department of	Direct	1 F31 N3113435-01A1	95.855	Extramural Research Programs in the Neurosciences and	19,700	-
Health and Human Services, Department of	Direct	1 F31 NS118881-01A1	93.853	Neurological Disorders	7,091	
Health and Human Services, Department of	Dilect	1 F31 N3118881-01A1	95.855	Extramural Research Programs in the Neurosciences and	7,091	-
Health and Human Services, Department of	Direct	1 F31 NS118944-01A1	93.853	Neurological Disorders	6,459	
Health and Human Services, Department of	Dilect	1151 N3118944-01A1	95.855	Extramural Research Programs in the Neurosciences and	0,439	-
		1 E00 NG110710 01	02.052	Neurological Disorders	46 207	
Health and Human Services, Department of	Direct	1 F99 NS118719-01	93.853	Extramural Research Programs in the Neurosciences and	46,397	-
			02.052		22.102	
Health and Human Services, Department of	Direct	1 F99 NS120544-01	93.853	Neurological Disorders	23,192	-
	<b>D</b>		02.072	Extramural Research Programs in the Neurosciences and	200.1	
Health and Human Services, Department of	Direct	1 R01 NS118440-01	93.853	Neurological Disorders	309,151	-
				Extramural Research Programs in the Neurosciences and		
Health and Human Services, Department of	Direct	1 R01 NS120322-01-A1	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	84,369	-
Health and Human Services, Department of	Direct	1 R03 NS111194-01A1	93.853	Neurological Disorders	65,271	

Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
Health and Human Services, Department of	Direct		1 R03 NS117806-01	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	128,029	-
Iealth and Human Services, Department of	Direct		1 R21 NS107781-01A1	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	75,771	-
lealth and Human Services, Department of	Direct		1 R21 NS107894-01A1	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	90,738	14,263
ealth and Human Services, Department of	Direct		1 R21 NS111154-01	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	213,888	162,914
ealth and Human Services, Department of	Direct		1 R21 NS111191-01	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	122,418	-
ealth and Human Services, Department of	Direct		1 R21 NS111205-01	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	152,138	-
alth and Human Services, Department of	Direct		1 R21 NS112394 1	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	136,466	_
alth and Human Services, Department of	Direct		1 R21 NS112974-01A1	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	85,208	
					Extramural Research Programs in the Neurosciences and		-
alth and Human Services, Department of	Direct		1 R21 NS113022-01	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	179,263	-
alth and Human Services, Department of	Direct		1 R21 NS113518-01	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	159,708	-
ealth and Human Services, Department of	Direct		1 R21 NS114749-01	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	64,659	-
alth and Human Services, Department of	Direct		1 R21 NS116250-01	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	187,728	-
alth and Human Services, Department of	Direct		1 R21 NS118055-01A1	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	21,865	-
alth and Human Services, Department of	Direct		1 R21 NS118675-01	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	251,709	-
alth and Human Services, Department of	Direct		1 R21 NS121700-01	93.853	Neurological Disorders	16,454	-
lth and Human Services, Department of	Direct		1 R35NS122302-01	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	43,799	-
alth and Human Services, Department of	Direct		1 R56 NS103845-01A1	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	148,053	-
alth and Human Services, Department of	Direct		1 RF1 NS113283-01	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	505,013	-
alth and Human Services, Department of	Direct		1 UF1 NS107659-01	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	1,223,209	491,238
lth and Human Services, Department of	Direct		1R01NS112233-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	108,541	-
lth and Human Services, Department of	Direct		1R21NS104774 02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	(2,451)	) -
Ith and Human Services, Department of	Direct		2 P50 NS091856-06	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	157,204	
alth and Human Services, Department of	Direct		2 R01 NS094399-06A1	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	54,290	
					Extramural Research Programs in the Neurosciences and		-
alth and Human Services, Department of	Direct		2 R01 NS097498-05	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	216,094	-
alth and Human Services, Department of	Direct		2 R56NS069844-10	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	350,916	-
alth and Human Services, Department of	Direct		3 R01 NS096785-10S1	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	526,293	-
alth and Human Services, Department of	Direct		3 R21 NS121745-01S1	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	44,665	-
alth and Human Services, Department of	Direct		4 R37 NS076752 09	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	180,470	-
alth and Human Services, Department of	Direct		4 R37 NS094804-05	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	(112)	) -
alth and Human Services, Department of	Direct		5 F31 NS100302-03	93.853	Neurological Disorders	6,762	-
alth and Human Services, Department of	Direct		5 F31 NS108510-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	8,972	-
alth and Human Services, Department of	Direct		5 F31 NS108617-03	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	40,380	-
alth and Human Services, Department of	Direct		5 F31 NS110206-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	47,879	-
alth and Human Services, Department of	Direct		5 F31 NS111847-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	716	-
alth and Human Services, Department of	Direct		5 F31 NS111906-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	6,328	-
in the second se			515116111500 02	,5.055	Extramural Research Programs in the Neurosciences and	0,520	

Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Assistance Listing Number	Assistance Listing Program Title	Federal Expenditures	Passed-Through to Subrecipients
Health and Human Services, Department of	Direct		5 F31 NS113513-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	42,700	-
Health and Human Services, Department of	Direct		5 F31 NS113515-03	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders Extramural Research Programs in the Neurosciences and	42,048	-
Health and Human Services, Department of	Direct		5 F31 NS115257-02	93.853	Neurological Disorders	42,490	-
Health and Human Services, Department of	Direct		5 F32 NS117732-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	69,866	-
Health and Human Services, Department of	Direct		5 F99 NS108549-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	(1,072)	-
Health and Human Services, Department of	Direct		5 F99 NS108556-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	(2,854)	-
Health and Human Services, Department of	Direct		5 F99 NS115337-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	23,983	-
Health and Human Services, Department of	Direct		5 K01 NS117555-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	151,765	-
Health and Human Services, Department of	Direct		5 K08 NS099379-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	156,817	-
Health and Human Services, Department of	Direct		5 K08 NS099427-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	159,062	-
Health and Human Services, Department of	Direct		5 K08 NS101054-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	214,512	-
Health and Human Services, Department of	Direct		5 K08 NS109289-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	149,690	-
Health and Human Services, Department of	Direct		5 K99 NS111000-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	82,870	-
Health and Human Services, Department of	Direct		5 P50 NS091856-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	(2,137)	-
Health and Human Services, Department of	Direct		5 R01 NS034509-24	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	616,648	-
Health and Human Services, Department of	Direct		5 R01 NS038712-21	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	52,145	17,085
Health and Human Services, Department of	Direct		5 R01 NS038916-23	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	1,447,667	-
Health and Human Services, Department of	Direct		5 R01 NS055746-15	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	578,504	128,531
Health and Human Services, Department of	Direct		5 R01 NS058585-10	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	46,447	-
Health and Human Services, Department of	Direct		5 R01 NS062792-10	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	(520,224)	-
Health and Human Services, Department of	Direct		5 R01 NS063967-12	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	388,484	-
Health and Human Services, Department of	Direct		5 R01 NS064015-10	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	(6,039)	
Health and Human Services, Department of	Direct		5 R01 NS069844-09	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	20,110	-
Health and Human Services, Department of	Direct		5 R01 NS085054-07	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	233,819	26,783
Health and Human Services, Department of	Direct		5 R01 NS086810-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	(23)	-
Health and Human Services, Department of	Direct		5 R01 NS086810-07	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	363,549	-
Health and Human Services, Department of	Direct		5 R01 NS087147-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	(430)	
Health and Human Services, Department of	Direct		5 R01 NS088571-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	227,599	
Health and Human Services, Department of	Direct		5 R01 NS089896-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	86,621	
Health and Human Services, Department of	Direct		5 R01 NS090925-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	33,142	
Health and Human Services, Department of	Direct		5 R01 NS091112-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	265,004	_
Health and Human Services, Department of	Direct		5 R01 NS092706-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	166,686	- 16,518
			5 R01 NS092706-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	176,040	5,902
Health and Human Services, Department of	Direct				Extramural Research Programs in the Neurosciences and		
Health and Human Services, Department of	Direct		5 R01 NS094413-05	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	260,633	-
Health and Human Services, Department of	Direct		5 R01 NS096756-05	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	254,433	-
Health and Human Services, Department of	Direct		5 R01 NS096917-05	93.853	Neurological Disorders	125,012	-

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Health and Human Services, Department of	Direct		5 R01 NS097498-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	114,977	-
Health and Human Services, Department of	Direct		5 R01 NS097525-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	299,448	-
Health and Human Services, Department of	Direct		5 R01 NS097542-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	400,563	-
Health and Human Services, Department of	Direct		5 R01 NS099160-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	329,706	-
Health and Human Services, Department of	Direct		5 R01 NS099280-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	232,651	-
Health and Human Services, Department of	Direct		5 R01 NS099340-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	944,883	22,117
Health and Human Services, Department of	Direct		5 R01 NS099535-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	430,737	-
Health and Human Services, Department of	Direct		5 R01 NS100156-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	(60,193)	-
Health and Human Services, Department of	Direct		5 R01 NS101597-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	412,000	-
Health and Human Services, Department of	Direct		5 R01 NS102715-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	668,144	112,934
Health and Human Services, Department of	Direct		5 R01 NS103946-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	322,829	_
Health and Human Services, Department of	Direct		5 R01 NS104299-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	318,416	
			5 R01 NS104776-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	194,344	-
Health and Human Services, Department of	Direct				Extramural Research Programs in the Neurosciences and		-
Health and Human Services, Department of	Direct		5 R01 NS105132-04	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	326,139	-
Health and Human Services, Department of	Direct		5 R01 NS105556-04	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	371,429	20,642
Health and Human Services, Department of	Direct		5 R01 NS106616-04	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	444,047	-
Health and Human Services, Department of	Direct		5 R01 NS10674-04	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	376,509	-
Health and Human Services, Department of	Direct		5 R01 NS107463-03	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	575,001	14,243
Health and Human Services, Department of	Direct		5 R01 NS107496-03	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	337,798	-
Health and Human Services, Department of	Direct		5 R01 NS108042-04	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	490,941	-
Health and Human Services, Department of	Direct		5 R01 NS109170-03	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	457,495	-
Health and Human Services, Department of	Direct		5 R01 NS111041-03	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	80,747	-
Health and Human Services, Department of	Direct		5 R01 NS113824-03	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	376,595	-
Health and Human Services, Department of	Direct		5 R01 NS113943-02	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	249,227	-
Health and Human Services, Department of	Direct		5 R01 NS117103-02	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	128,227	-
Health and Human Services, Department of	Direct		5 R01 NS118769-02	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	520,192	-
Health and Human Services, Department of	Direct		5 R01 NS225362-02	93.853	Neurological Disorders	58,664	-
Health and Human Services, Department of	Direct		5 R01-NS100687-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	1,259,995	-
Health and Human Services, Department of	Direct		5 R01NS110572 03	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	384,620	-
Health and Human Services, Department of	Direct		5 R01NS116008 02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	439,437	-
Health and Human Services, Department of	Direct		5 R21 NS099684-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	29,609	-
Health and Human Services, Department of	Direct		5 R21 NS102924-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	4,683	-
Health and Human Services, Department of	Direct		5 R21 NS103754-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	27,648	-
Health and Human Services, Department of	Direct		5 R21 NS104663-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	95,147	-
Health and Human Services, Department of	Direct		5 R21 NS107879-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	61,486	-
Health and Human Services, Department of	Direct		5 R21 NS108783-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	17,995	

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Health and Human Services, Department of	Direct		5 R21 NS113127-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	142,969	-
Health and Human Services, Department of	Direct		5 R25 NS088248-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	90,683	-
Health and Human Services, Department of	Direct		5 R25 NS089450-08	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	74,014	-
Health and Human Services, Department of	Direct		5 R25 NS107159-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	80,593	10,219
Health and Human Services, Department of	Direct		5 R33 NS101030 03	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	145,201	-
Health and Human Services, Department of	Direct		5 R35 NS116786-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	838,420	-
Health and Human Services, Department of	Direct		5 R37 NS076752-08	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	458,477	-
lealth and Human Services, Department of	Direct		5 R37 NS094804-07	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	587,659	-
lealth and Human Services, Department of	Direct		5 U01 NS090364-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	419	-
Iealth and Human Services, Department of	Direct		5 U01 NS099043-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	2,684,353	2,083,828
lealth and Human Services, Department of	Direct		5 U01 NS099046 02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	4,173,446	1,190,035
Iealth and Human Services, Department of	Direct		5 U01 NS100611-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	132,478	-
Iealth and Human Services, Department of	Direct		5 U01 NS106670-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	357,074	-
lealth and Human Services, Department of	Direct		5 U10 NS086526-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	(2,107)	-
lealth and Human Services, Department of	Direct		5 U24 NS100659-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	605,541	74,738
ealth and Human Services, Department of	Direct		5 U24 NS107158-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	216,813	-
ealth and Human Services, Department of	Direct		5 U24 NS107214-04	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	356,641	-
ealth and Human Services, Department of	Direct		5 U54NS117170 02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	1,354,142	392,013
ealth and Human Services, Department of	Direct		5 UH3 NS092981-05	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	(272,263)	-
alth and Human Services, Department of	Direct		9 R01 NS122534 06A1	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	185,112	-
alth and Human Services, Department of	Direct		T32 NS007222	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	378,516	-
alth and Human Services, Department of	Direct		T32 NS076401	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	75,414	-
ealth and Human Services, Department of	Pass-Through California Institute of	Technology	S469468	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	71,892	-
ealth and Human Services, Department of	Pass-Through Case Western Reserve	University	RES514267	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	83,813	-
ealth and Human Services, Department of	Pass-Through Colorado School of M	ines	401419-5802	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	60,966	-
ealth and Human Services, Department of	Pass-Through Columbia University		17(GG015970-01)/G15052	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	28,031	-
ealth and Human Services, Department of	Pass-Through Duke University		A032127	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	27,539	-
ealth and Human Services, Department of	Pass-Through Hennepin Healthcare F	Research Institute (HHRI)	15186-02	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	714,419	-
ealth and Human Services, Department of	Pass-Through Houston Methodist Re	search Institute	AGMT 4553AM1	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	5,298	-
ealth and Human Services, Department of	Pass-Through Houston Methodist Re	search Institute	AGMT00004553	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	52,529	-
ealth and Human Services, Department of	Pass-Through Kennedy Krieger Instit	tute	Subaward Agreement	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	100,067	-
ealth and Human Services, Department of	Pass-Through Michigan State Univer	sity	RC111114B	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	84,231	-
ealth and Human Services, Department of	Pass-Through Stanford University		62556501-179030	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	1,041	-
ealth and Human Services, Department of	Pass-Through The University of Texa	as Health Science Center at Houston	SA0000224	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	12,844	-
ealth and Human Services, Department of	Pass-Through The University of Texa	as Medical Branch at Galveston (UTMB)	20-84848-01	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	19,077	-
lealth and Human Services, Department of	Pass-Through The University of Texa		GMO 210602 PO000002344	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	156,047	

Cluster Title/Federal Cuenter/Program	Tune	Pass Through Cuenton	Award Idantifian	Assistance Listi Number	ng Assistance Listing Program Title	Pas Federal Expenditures to S	ssed-Throug
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Extramural Research Programs in the Neurosciences and	Federal Expenditures to	Subrecipien
ealth and Human Services, Department of	Pass-Through The University of	f Texas Southwestern Medical Center	GMO200206	93.853	Neurological Disorders	2,826	-
					Extramural Research Programs in the Neurosciences and		
alth and Human Services, Department of	Pass-Through Thomas Jefferson	n University	080-02000-S36701 PO200014209	93.853	Neurological Disorders	14,402	-
					Extramural Research Programs in the Neurosciences and		
alth and Human Services, Department of	Pass-Through Tufts University		NIH171_Ye	93.853	Neurological Disorders	88,098	-
alth and Human Services, Department of	Pass-Through University of Cali	ifornia San Eronaizaa	10180sc	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	(947)	
and and Human Services, Department of	Pass-Through University of Can	norma - San Francisco	10180sc	95.655	Extramural Research Programs in the Neurosciences and	(947)	-
ealth and Human Services, Department of	Pass-Through University of Cali	ifornia - San Francisco	11991sc	93.853	Neurological Disorders	199,393	-
· 1	5 ,				Extramural Research Programs in the Neurosciences and	,	
ealth and Human Services, Department of	Pass-Through University of Cali	ifornia - San Francisco	11991sc	93.853	Neurological Disorders	34,261	-
					Extramural Research Programs in the Neurosciences and		
ealth and Human Services, Department of	Pass-Through University of Cine	cinnati	011414-Adm- Kleindorfer	93.853	Neurological Disorders	18,098	-
alth and Hamme Commission Demonstration of	Deer Three Huringerite of Circ	-14	011414 Adm Doorse	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	12.279	
alth and Human Services, Department of	Pass-Through University of Cine	cinnati	011414-Adm-Brown	95.855	Extramural Research Programs in the Neurosciences and	12,378	-
ealth and Human Services, Department of	Pass-Through University of Iow	9	S00947-02/11246800	93.853	Neurological Disorders	7,849	_
,		-			Extramural Research Programs in the Neurosciences and	.,	
ealth and Human Services, Department of	Pass-Through University of Kan	isas	FY2021-018	93.853	Neurological Disorders	36,323	-
					Extramural Research Programs in the Neurosciences and		
alth and Human Services, Department of	Pass-Through University of Min	mesota	N004631406	93.853	Neurological Disorders	49,516	-
					Extramural Research Programs in the Neurosciences and		
alth and Human Services, Department of	Pass-Through University of Min	mesota	P006124701	93.853	Neurological Disorders	645	-
- He and Hammen Commission Demonstration of	Deer Three Liniversity of Ditt	-hh	AWD00001302 (133623-1)	02.952	Extramural Research Programs in the Neurosciences and	4,827	
alth and Human Services, Department of	Pass-Through University of Pitts	sburgn	AWD00001302 (133623-1)	93.853	Neurological Disorders Extramural Research Programs in the Neurosciences and	4,827	-
alth and Human Services, Department of	Pass-Through University of Pitts	shurah	AWD00001302 (135341-1)	93.853	Neurological Disorders	2,463	_
and and Human Services, Department of	Tuss-Through Chiversity of This	sourgi	AWB00001502 (155541-1)	75.655	Extramural Research Programs in the Neurosciences and	2,405	
alth and Human Services, Department of	Pass-Through University of Sou	thern California	PO 50966645	93.853	Neurological Disorders	11,376	-
· •	0 ,				Extramural Research Programs in the Neurosciences and		
alth and Human Services, Department of	Pass-Through University of Virg	ginia	GB10094 PO 2167241	93.853	Neurological Disorders	309,729	-
					Extramural Research Programs in the Neurosciences and		
alth and Human Services, Department of	Pass-Through University of Virg	ginia	GB10094-147355	93.853	Neurological Disorders	(2,444)	-
alth and Human Services, Department of	Bass Through University of Vinc	ainia	GC12107-149698	93.853	Extramural Research Programs in the Neurosciences and	(46,610)	
atth and Human Services, Department of	Pass-Through University of Virg	gma	GC12107-149698	95.855	Neurological Disorders Extramural Research Programs in the Neurosciences and	(46,619)	-
alth and Human Services, Department of	Pass-Through University of Wis	sconsin	000000039	93.853	Neurological Disorders	71,452	
and and Frankin Set (1995), Department of	Tubb Through Childrenky of the	Join Shi	000000000	,51055	Extramural Research Programs in the Neurosciences and	71,102	
alth and Human Services, Department of	Pass-Through Vanderbilt Univer	rsity	UNIV59892	93.853	Neurological Disorders	106,212	-
					Extramural Research Programs in the Neurosciences and		
alth and Human Services, Department of	Pass-Through Wayne State Univ	versity	WSU19085-A2	93.853	Neurological Disorders	83,914	
					Extramural Research Programs in the Neurosciences and		
alth and Human Services, Department of	Pass-Through Wayne State Univ	versity	WSU21026	93.853	Neurological Disorders	12,255	
alth and Human Samiage Department of	Bass Through William Marsh P	ion University	R23341	93.853	Extramural Research Programs in the Neurosciences and Neurological Disorders	22.226	
alth and Human Services, Department of	Pass-Through William Marsh R	ice University	K23341	95.855	Extramural Research Programs in the Neurosciences and	33,226	
alth and Human Services, Department of	Pass-Through Yale University		GR110764 (CON-80002808)	93.853	Neurological Disorders	1,041	
,	· ·				· · · · · · · · · · · · · · · · · · ·	\$ 38,991,054 \$	4,784,0
alth and Human Services, Department of	Direct		1 F31 AI140618-01	93.855	Allergy and Infectious Diseases Research	\$ (1,762) \$	-
lth and Human Services, Department of	Direct		1 F31 AI152297-01A1	93.855	Allergy and Infectious Diseases Research	25,821	
Ith and Human Services, Department of	Direct		1 F31 AI152365-01A1	93.855	Allergy and Infectious Diseases Research	21,656	
th and Human Services, Department of	Direct		1 R01 AI141673-01A1	93.855	Allergy and Infectious Diseases Research	52,283	
th and Human Services, Department of	Direct		1 R01 AI150687-01	93.855	Allergy and Infectious Diseases Research	35,875	
th and Human Services, Department of	Direct		1 R01 AI157384-01A1	93.855	Allergy and Infectious Diseases Research	9,662	
th and Human Services, Department of	Direct		1 R03 AI159298-01	93.855	Allergy and Infectious Diseases Research	16,510	
th and Human Services, Department of	Direct		1 R21 AI154647-01A1	93.855	Allergy and Infectious Diseases Research	20,578	
th and Human Services, Department of th and Human Services, Department of	Direct Direct		1 R21 AI155944-01 1 R21 AI159219-01	93.855 93.855	Allergy and Infectious Diseases Research Allergy and Infectious Diseases Research	78,546 31,437	
h and Human Services, Department of	Direct		1 R21 A1159219-01 1 R21 A1159304-01	93.855	Allergy and Infectious Diseases Research	27,440	
th and Human Services, Department of	Direct		1 R21 AI160610-01	93.855	Allergy and Infectious Diseases Research	50,521	
th and Human Services, Department of	Direct		1 R56 AI150660-01A1	93.855	Allergy and Infectious Diseases Research	35,120	
th and Human Services, Department of	Direct		2 R01 AI059722-15A1	93.855	Allergy and Infectious Diseases Research	688,563	
th and Human Services, Department of	Direct		2 R01 AI120526-06	93.855	Allergy and Infectious Diseases Research	418,244	
th and Human Services, Department of	Direct		3 K01 AI141579-03S1	93.855	Allergy and Infectious Diseases Research	10,743	
th and Human Services, Department of	Direct		3 R01 AI120997-04S1	93.855	Allergy and Infectious Diseases Research	303,991	190
th and Human Services, Department of	Direct		4 R37AI063331-16	93.855	Allergy and Infectious Diseases Research	229,287	
th and Human Services, Department of	Direct		5 F30 AI136315-04	93.855	Allergy and Infectious Diseases Research	38,999	
th and Human Services, Department of	Direct		5 F30 AI145113-02	93.855	Allergy and Infectious Diseases Research	40,535	
Ith and Human Services, Department of	Direct		5 F31 AI131957-03	93.855	Allergy and Infectious Diseases Research	3,917	
alth and Human Services, Department of	Direct		5 F31 AI134287-02	93.855 93.855	Allergy and Infectious Diseases Research Allergy and Infectious Diseases Research	508 12,142	
alth and Human Services, Department of	Direct		5 F32 AI134016-03				

				Assistance List	5		Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures t	to Subrecipients
Health and Human Services, Department of	Direct		5 F32 AI147527-03 5 F32 AI150027-02	93.855	Allergy and Infectious Diseases Research	55,682	-
Health and Human Services, Department of Health and Human Services, Department of	Direct			93.855 93.855	Allergy and Infectious Diseases Research	60,486 96,825	-
	Direct Direct		5 K01 AI137123-03 5 K01 AI141579-03	93.855	Allergy and Infectious Diseases Research	96,825	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 K01 A1141579-03 5 K01 A1145080-02	93.855	Allergy and Infectious Diseases Research Allergy and Infectious Diseases Research	112,395	-
Health and Human Services, Department of	Direct		5 K01 A1145080-02 5 K08 A1119182-05	93.855	Allergy and Infectious Diseases Research	144,010	-
Health and Human Services, Department of	Direct		5 K08 AI128006-04	93.855	Allergy and Infectious Diseases Research	199,295	
Health and Human Services, Department of	Direct		5 K08 AI130362-03	93.855	Allergy and Infectious Diseases Research	116,225	_
Health and Human Services, Department of	Direct		5 K22 AI137299-02	93.855	Allergy and Infectious Diseases Research	149,392	_
Health and Human Services, Department of	Direct		5 K23 AI123595-05	93.855	Allergy and Infectious Diseases Research	207,599	-
Health and Human Services, Department of	Direct		5 R01 AI 140133-03	93.855	Allergy and Infectious Diseases Research	674,607	97,313
Health and Human Services, Department of	Direct		5 R01 AI044115-21	93.855	Allergy and Infectious Diseases Research	514,066	-
Health and Human Services, Department of	Direct		5 R01 AI046675-21	93.855	Allergy and Infectious Diseases Research	380,007	-
Health and Human Services, Department of	Direct		5 R01 AI060584-14	93.855	Allergy and Infectious Diseases Research	154,805	-
Health and Human Services, Department of	Direct		5 R01 AI063331-14	93.855	Allergy and Infectious Diseases Research	242,738	-
Health and Human Services, Department of	Direct		5 R01 AI064296-15	93.855	Allergy and Infectious Diseases Research	435,788	-
Health and Human Services, Department of	Direct		5 R01 AI071727-15	93.855	Allergy and Infectious Diseases Research	567,368	18,196
Health and Human Services, Department of	Direct		5 R01 AI080870-10	93.855	Allergy and Infectious Diseases Research	(8,854)	-
Health and Human Services, Department of	Direct		5 R01 AI091627-07	93.855	Allergy and Infectious Diseases Research	(2,589)	(2,589)
Health and Human Services, Department of	Direct		5 R01 AI110780-05	93.855	Allergy and Infectious Diseases Research	172,383	13,430
Health and Human Services, Department of	Direct		5 R01 AI112626-05	93.855	Allergy and Infectious Diseases Research	27,220	29,962
Health and Human Services, Department of	Direct		5 R01 AI117229-05	93.855	Allergy and Infectious Diseases Research	188,670	-
Health and Human Services, Department of	Direct		5 R01 AI119446-06	93.855	Allergy and Infectious Diseases Research	710,308	-
Health and Human Services, Department of	Direct		5 R01 AI120526-04	93.855	Allergy and Infectious Diseases Research	109	-
Health and Human Services, Department of	Direct		5 R01 AI120607-05	93.855	Allergy and Infectious Diseases Research	242,114	62,100
Health and Human Services, Department of	Direct		5 R01 AI120997-05	93.855	Allergy and Infectious Diseases Research	455,746	255,256
Health and Human Services, Department of	Direct		5 R01 AI121302-05	93.855	Allergy and Infectious Diseases Research	283,765	-
Health and Human Services, Department of	Direct		5 R01 AI123093-04	93.855	Allergy and Infectious Diseases Research	342,776	172,039
Health and Human Services, Department of	Direct		5 R01 AI123957-04	93.855	Allergy and Infectious Diseases Research	277,029	-
Health and Human Services, Department of	Direct		5 R01 AI125307-05	93.855	Allergy and Infectious Diseases Research	532,817	92,870
Health and Human Services, Department of	Direct		5 R01 AI127070-05	93.855	Allergy and Infectious Diseases Research	655,775	-
Health and Human Services, Department of	Direct		5 R01 AI129958-05	93.855	Allergy and Infectious Diseases Research	554,752	-
Health and Human Services, Department of	Direct		5 R01 AI130025-05	93.855	Allergy and Infectious Diseases Research	366,128	-
Health and Human Services, Department of	Direct		5 R01 AI132372-04	93.855	Allergy and Infectious Diseases Research	817,718	662,093
Health and Human Services, Department of	Direct		5 R01 AI134678-04	93.855	Allergy and Infectious Diseases Research	583,284	-
Health and Human Services, Department of	Direct		5 R01 AI134731-03	93.855	Allergy and Infectious Diseases Research	582,582	117,082
Health and Human Services, Department of	Direct		5 R01 AI134999-03	93.855	Allergy and Infectious Diseases Research	436,564	-
Health and Human Services, Department of	Direct		5 R01 AI136941-03	93.855	Allergy and Infectious Diseases Research	415,505	-
Health and Human Services, Department of	Direct		5 R01 AI136977-03	93.855	Allergy and Infectious Diseases Research	620,670	357,629
Health and Human Services, Department of	Direct		5 R01 AI137085 04	93.855	Allergy and Infectious Diseases Research	241,312	21,889
Health and Human Services, Department of	Direct		5 R01 AI138347-04	93.855	Allergy and Infectious Diseases Research	463,783	-
Health and Human Services, Department of	Direct		5 R01 AI138348-04	93.855	Allergy and Infectious Diseases Research	481,785	-
Health and Human Services, Department of	Direct		5 R01 AI141591-03	93.855	Allergy and Infectious Diseases Research	330,828	175,211
Health and Human Services, Department of	Direct		5 R01 AI148076-03	93.855	Allergy and Infectious Diseases Research	605,579	267,723
Health and Human Services, Department of	Direct		5 R01 AI148084-03	93.855	Allergy and Infectious Diseases Research	433,122	-
Health and Human Services, Department of	Direct		5 R01 AI148259-02	93.855	Allergy and Infectious Diseases Research	326,430	38,744
Health and Human Services, Department of	Direct		5 R01 AI148289-02	93.855	Allergy and Infectious Diseases Research	534,826	-
Health and Human Services, Department of	Direct		5 R01 AI148371-02	93.855	Allergy and Infectious Diseases Research	675,173	-
Health and Human Services, Department of	Direct		5 R01 AI148383-03	93.855	Allergy and Infectious Diseases Research	696,650	-
Health and Human Services, Department of	Direct		5 R01 AI150897-02	93.855	Allergy and Infectious Diseases Research	595,075	279,405
Health and Human Services, Department of	Direct		5 R01 AI151588-02	93.855	Allergy and Infectious Diseases Research	166,491	-
Health and Human Services, Department of	Direct		5 R01 AI152517 02	93.855	Allergy and Infectious Diseases Research	446,670	-
Health and Human Services, Department of	Direct		5 R01 AI154072-02	93.855	Allergy and Infectious Diseases Research	468,368	
Health and Human Services, Department of	Direct		5 R01 AI155678-02	93.855	Allergy and Infectious Diseases Research	242,973	34,731
Health and Human Services, Department of	Direct		5 R01 AI33935-04	93.855	Allergy and Infectious Diseases Research	573,723	-
Health and Human Services, Department of	Direct		5 R01 Al116791-05	93.855	Allergy and Infectious Diseases Research	(320,554)	-
Health and Human Services, Department of	Direct		5 R01AI118886-05	93.855	Allergy and Infectious Diseases Research	236,949	81,000
Health and Human Services, Department of	Direct		5 R01AI121156-05	93.855	Allergy and Infectious Diseases Research	149,138	-
Health and Human Services, Department of	Direct		5 R01AI143852-03	93.855	Allergy and Infectious Diseases Research	628,240	65,446
Health and Human Services, Department of	Direct		5 R01AI149669-02	93.855	Allergy and Infectious Diseases Research	559,773	-
Health and Human Services, Department of	Direct		5 R03 AI130610-02	93.855	Allergy and Infectious Diseases Research	(8,005)	-
Health and Human Services, Department of	Direct		5 R2 1AI142144-02	93.855	Allergy and Infectious Diseases Research	207,614	109,989
Health and Human Services, Department of	Direct		5 R21 AI122244-02	93.855	Allergy and Infectious Diseases Research	697	-
Health and Human Services, Department of	Direct		5 R21 AI126054-02	93.855	Allergy and Infectious Diseases Research	(3,832)	-
Health and Human Services, Department of	Direct		5 R21 AI128120-02	93.855	Allergy and Infectious Diseases Research	(4,878)	-
Health and Human Services, Department of	Direct		5 R21 AI130328 02	93.855	Allergy and Infectious Diseases Research	48,167	-
Health and Human Services, Department of	Direct		5 R21 AI132379-02	93.855	Allergy and Infectious Diseases Research	100,819	-
Health and Human Services, Department of	Direct		5 R21 AI135403-02	93.855	Allergy and Infectious Diseases Research	(69,785)	-
Health and Human Services, Department of	Direct		5 R21 AI135559-02	93.855	Allergy and Infectious Diseases Research	18,897	12,017
Health and Human Services, Department of	Direct		5 R21 AI136657-02	93.855	Allergy and Infectious Diseases Research	121	
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 R21 AI137535-02	93.855	Allergy and Infectious Diseases Research	100,418	68,339
	Direct		5 R21 AI137669-02	93.855	Allergy and Infectious Diseases Research	(3,229)	

			Assistance Listi			Passed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Throug		Number	Assistance Listing Program Title	Federal Expenditures to	o Subrecipients
Health and Human Services, Department of	Direct	5 R21 AI138177-02	93.855	Allergy and Infectious Diseases Research	153,440	-
Health and Human Services, Department of	Direct	5 R21 AI138180-02	93.855	Allergy and Infectious Diseases Research	168,117	-
Health and Human Services, Department of	Direct	5 R21 AI140106-02	93.855	Allergy and Infectious Diseases Research	114,862	-
Health and Human Services, Department of	Direct	5 R21 AI141832-02	93.855	Allergy and Infectious Diseases Research	96,485	-
Health and Human Services, Department of	Direct	5 R21 AI141835-02	93.855	Allergy and Infectious Diseases Research	153,327	20,563
Health and Human Services, Department of Health and Human Services, Department of	Direct	5 R21 AI142032-02	93.855	Allergy and Infectious Diseases Research Allergy and Infectious Diseases Research	102,369	-
	Direct	5 R21 AI142047 - 02	93.855		158,926	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	5 R21 AI142073-02 5 R21 AI143276-02	93.855 93.855	Allergy and Infectious Diseases Research Allergy and Infectious Diseases Research	207,601 151,783	-
Health and Human Services, Department of	Direct	5 R21 A1145270-02 5 R21 A1146659-02	93.855	Allergy and Infectious Diseases Research	206,724	-
Health and Human Services, Department of	Direct	5 R21 AI140059-02 5 R21 AI147155-02	93.855	Allergy and Infectious Diseases Research	176,445	
Health and Human Services, Department of	Direct	5 R21 AI147677-02	93.855	Allergy and Infectious Diseases Research	133,637	50,034
Health and Human Services, Department of	Direct	5 R21 AI148381-02	93.855	Allergy and Infectious Diseases Research	203,498	-
Health and Human Services, Department of	Direct	5 R21 AI152865-02	93.855	Allergy and Infectious Diseases Research	104,076	-
Health and Human Services, Department of	Direct	5 R21 AI154128-02	93.855	Allergy and Infectious Diseases Research	212,161	-
Health and Human Services, Department of	Direct	5 R21AI140449-02	93.855	Allergy and Infectious Diseases Research	184,167	-
Health and Human Services, Department of	Direct	5 R33 AI116158-05	93.855	Allergy and Infectious Diseases Research	30,602	-
Health and Human Services, Department of	Direct	5 R33 AI116190-05	93.855	Allergy and Infectious Diseases Research	37,489	-
Health and Human Services, Department of	Direct	5 R33 AI127492-04	93.855	Allergy and Infectious Diseases Research	534,232	-
Health and Human Services, Department of	Direct	5 U01 AI124255-05	93.855	Allergy and Infectious Diseases Research	1,263,183	256,531
Health and Human Services, Department of	Direct	5 U19 AI116482-05	93.855	Allergy and Infectious Diseases Research	(214,530)	4,181
Health and Human Services, Department of	Direct	5 UH2 AI132931-02	93.855	Allergy and Infectious Diseases Research	175,678	80,321
Health and Human Services, Department of	Direct	5 UH3AI128900 05	93.855	Allergy and Infectious Diseases Research	70,262	-
Health and Human Services, Department of	Direct	5 UM1 AI110557-05	93.855	Allergy and Infectious Diseases Research	(98)	-
Health and Human Services, Department of	Direct	5 UM1AI144298-03	93.855	Allergy and Infectious Diseases Research	68,343	-
Health and Human Services, Department of	Direct	5R01AI155444-02	93.855	Allergy and Infectious Diseases Research	284,370	-
Health and Human Services, Department of	Direct	5R21 AI148767-02	93.855	Allergy and Infectious Diseases Research	185,606	-
Health and Human Services, Department of	Direct	5-R21AI137222-02	93.855	Allergy and Infectious Diseases Research	106,235	1,046
Health and Human Services, Department of	Direct	5R21AI148898-02	93.855	Allergy and Infectious Diseases Research	83,345	-
Health and Human Services, Department of	Direct	T32 AI007413	93.855	Allergy and Infectious Diseases Research	366,968	-
Health and Human Services, Department of	Direct	T32 AI007528	93.855	Allergy and Infectious Diseases Research	331,424	-
Health and Human Services, Department of	Pass-Through Benaroya Research Institute at Virginia Maso		93.855	Allergy and Infectious Diseases Research	4,836	-
Health and Human Services, Department of	Pass-Through Benaroya Research Institute at Virginia Maso		93.855	Allergy and Infectious Diseases Research	(3)	-
Health and Human Services, Department of	Pass-Through Benaroya Research Institute at Virginia Maso		93.855	Allergy and Infectious Diseases Research	10,289	-
Health and Human Services, Department of	Pass-Through Benaroya Research Institute at Virginia Maso		93.855	Allergy and Infectious Diseases Research	33,384	-
Health and Human Services, Department of	Pass-Through Benaroya Research Institute at Virginia Maso		93.855	Allergy and Infectious Diseases Research	70,944	-
Health and Human Services, Department of	Pass-Through Benaroya Research Institute at Virginia Maso		93.855	Allergy and Infectious Diseases Research	19,817	-
Health and Human Services, Department of	Pass-Through Benaroya Research Institute at Virginia Maso		93.855	Allergy and Infectious Diseases Research	38,870	-
Health and Human Services, Department of	Pass-Through Benaroya Research Institute at Virginia Maso		93.855	Allergy and Infectious Diseases Research	115,981	-
Health and Human Services, Department of	Pass-Through Colorado State University	G-15193-02	93.855 93.855	Allergy and Infectious Diseases Research Allergy and Infectious Diseases Research	18,906	-
Health and Human Services, Department of	Pass-Through Columbia University	4(GG011022-01) A287840	93.855		(4,108) (18,569)	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Emory University Pass-Through Emory University	A318717	93.855	Allergy and Infectious Diseases Research Allergy and Infectious Diseases Research	274,187	-
Health and Human Services, Department of	Pass-Through Emory University	T939626	93.855	Allergy and Infectious Diseases Research	(14,841)	-
Health and Human Services, Department of	Pass-Through Henry Ford Health System	B23832UMICH/PO0012903591	93.855	Allergy and Infectious Diseases Research	419,507	-
Health and Human Services, Department of	Pass-Through Johns Hopkins University	2004030292	93.855	Allergy and Infectious Diseases Research	30,351	
Health and Human Services, Department of	Pass-Through Johns Hopkins University	2004765799	93.855	Allergy and Infectious Diseases Research	24,150	_
Health and Human Services, Department of	Pass-Through Johns Hopkins University	LDR 01 MOD 09	93.855	Allergy and Infectious Diseases Research	17,646	_
Health and Human Services, Department of	Pass-Through Johns Hopkins University	LDR 02	93.855	Allergy and Infectious Diseases Research	20,511	_
Health and Human Services, Department of	Pass-Through McGill University	PT 86060	93.855	Allergy and Infectious Diseases Research	4,621	-
Health and Human Services, Department of	Pass-Through Michigan State University	RC105644UofM	93.855	Allergy and Infectious Diseases Research	15,293	-
Health and Human Services, Department of	Pass-Through Michigan State University	RC107329UM	93.855	Allergy and Infectious Diseases Research	6,574	-
Health and Human Services, Department of	Pass-Through Michigan State University	RC107329UM	93.855	Allergy and Infectious Diseases Research	2,390	-
Health and Human Services, Department of	Pass-Through Northwestern University	60047274 RUM	93.855	Allergy and Infectious Diseases Research	22,199	-
Health and Human Services, Department of	Pass-Through Pennsylvania State University	5869-UM-DHHS-0856	93.855	Allergy and Infectious Diseases Research	12,903	-
Health and Human Services, Department of	Pass-Through Rush University Medical Center	18092008-Sub01	93.855	Allergy and Infectious Diseases Research	179,192	-
Health and Human Services, Department of	Pass-Through Scripps Research Institute, The	5-27170	93.855	Allergy and Infectious Diseases Research	(11,184)	-
Health and Human Services, Department of	Pass-Through Seattle Children's Hospital	12138SUB	93.855	Allergy and Infectious Diseases Research	49,356	-
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112525010-7883641	93.855	Allergy and Infectious Diseases Research	(3,181)	-
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112525020-7932713	93.855	Allergy and Infectious Diseases Research	654,054	-
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112525021-7937140	93.855	Allergy and Infectious Diseases Research	367,052	-
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112525030-8001519	93.855	Allergy and Infectious Diseases Research	103,532	-
Health and Human Services, Department of	Pass-Through Sustainable Sciences Institute	F038211	93.855	Allergy and Infectious Diseases Research	4,553	-
Health and Human Services, Department of	Pass-Through The Icahn School of Medicine at Mount Sinai		93.855	Allergy and Infectious Diseases Research	(846)	-
Health and Human Services, Department of	Pass-Through The Icahn School of Medicine at Mount Sinai		93.855	Allergy and Infectious Diseases Research	(1,572)	-
Health and Human Services, Department of	Pass-Through The Icahn School of Medicine at Mount Sinai		93.855	Allergy and Infectious Diseases Research	(8,129)	-
	Pass-Through The Icahn School of Medicine at Mount Sinai		93.855	Allergy and Infectious Diseases Research	39,658	-
Health and Human Services, Department of			02.055	Allergy and Infectious Diseases Research	5 8 2 2	-
Health and Human Services, Department of	Pass-Through Therapeutics System Research Lab, Inc. (TS		93.855		5,822	
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Therapeutics System Research Lab, Inc. (TS Pass-Through Tufts University	100610-00001	93.855	Allergy and Infectious Diseases Research	(12,777)	-
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Therapeutics System Research Lab, Inc. (TS Pass-Through Tufts University Pass-Through Tufts University	100610-00001 NIH121/PO# EP0195361	93.855 93.855	Allergy and Infectious Diseases Research Allergy and Infectious Diseases Research	(12,777) 212,430	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Therapeutics System Research Lab, Inc. (TS Pass-Through Tufts University	100610-00001	93.855	Allergy and Infectious Diseases Research	(12,777)	- -

				Assistance Listi	ng		Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	
Health and Human Services, Department of	Pass-Through University of California -	Berkeley	00010422/PO BB01420235	93.855	Allergy and Infectious Diseases Research	59,440	-
Health and Human Services, Department of	Pass-Through University of California -		00010454/POBB01420521	93.855	Allergy and Infectious Diseases Research	78,080	-
Health and Human Services, Department of	Pass-Through University of California -		A19-2105-S001	93.855	Allergy and Infectious Diseases Research	22,824	-
Health and Human Services, Department of	Pass-Through University of California -		11102sc	93.855	Allergy and Infectious Diseases Research	3,511	-
Health and Human Services, Department of	Pass-Through University of California -		11102SC	93.855	Allergy and Infectious Diseases Research	11,767	-
Health and Human Services, Department of	Pass-Through University of California -		8808sc	93.855	Allergy and Infectious Diseases Research	(7,753)	-
Health and Human Services, Department of	Pass-Through University of California -	San Francisco	8808sc	93.855	Allergy and Infectious Diseases Research	29,674	-
Health and Human Services, Department of	Pass-Through University of Chicago		AWD100226 (SUB00000052 SUB00001658 Project P0105605	93.855	Allergy and Infectious Diseases Research	133,015	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through University of Florida, The Pass-Through University of Georgia		SUB00001658 - Project P0105695 SUB00002053	93.855 93.855	Allergy and Infectious Diseases Research Allergy and Infectious Diseases Research	29,602 172,291	-
Health and Human Services, Department of	Pass-Through University of Iowa		S02227-01	93.855	Allergy and Infectious Diseases Research	27,706	-
Health and Human Services, Department of	Pass-Through University of North Caroli	na at Chanel Hill	5115151	93.855	Allergy and Infectious Diseases Research	24,313	_
Health and Human Services, Department of	Pass-Through University of Pennsylvania		574524/4145570PO4338198	93.855	Allergy and Infectious Diseases Research	51,187	-
Health and Human Services, Department of	Pass-Through University of Pennsylvania		574524/PO4564889	93.855	Allergy and Infectious Diseases Research	56,725	-
Health and Human Services, Department of	Pass-Through University of Pittsburgh		CNVA00050569 (127631-2)	93.855	Allergy and Infectious Diseases Research	332,906	-
Health and Human Services, Department of	Pass-Through University of Washington		UWSC12201/BPO51323	93.855	Allergy and Infectious Diseases Research	150,733	-
Health and Human Services, Department of	Pass-Through University of Washington		UWSC12296	93.855	Allergy and Infectious Diseases Research	73,952	-
Health and Human Services, Department of	Pass-Through Vanderbilt University		VUMC64255	93.855	Allergy and Infectious Diseases Research	(9,230)	-
Health and Human Services, Department of	Pass-Through Vanderbilt University		VUMC64255	93.855	Allergy and Infectious Diseases Research	(4,942)	-
Health and Human Services, Department of	Pass-Through Vanderbilt University		VUMC64255	93.855	Allergy and Infectious Diseases Research	107,530	-
Health and Human Services, Department of	Pass-Through Vanderbilt University		VUMC64255	93.855	Allergy and Infectious Diseases Research	15,006	-
Health and Human Services, Department of	Pass-Through Vanderbilt University		VUMC67195	93.855	Allergy and Infectious Diseases Research	35,248	-
Health and Human Services, Department of	Pass-Through VLP Biotech, Inc	a. t. i	R44AI142939	93.855	Allergy and Infectious Diseases Research	173,052	-
Health and Human Services, Department of	Pass-Through Washington University in		WU-19-228	93.855	Allergy and Infectious Diseases Research	12,553	-
Health and Human Services, Department of	Pass-Through Western Michigan Univers	sity	500.008	93.855	Allergy and Infectious Diseases Research	4,592	-
Health and Human Services, Department of	Pass-Through Yale University		GR111609 (CON-80002812)	93.855	Allergy and Infectious Diseases Research	6,057 \$ 33,707,466	\$ 3,632,946
Health and Human Services, Department of	Direct		1 F31 GM140677-01	93.859	Biomedical Research and Research Training	\$ 33,707,466	\$ 3,032,940
Health and Human Services, Department of Health and Human Services, Department of	Direct		1 F31 GM140677-01 1 F32 GM137465-01	93.859 93.859	Biomedical Research and Research Training	5 2,243 57,316	5 -
Health and Human Services, Department of	Direct		1 F32 GM137465-01	93.859	Biomedical Research and Research Training	28,098	-
Health and Human Services, Department of	Direct		1 K99 GM141267-01	93.859	Biomedical Research and Research Training	35,080	_
Health and Human Services, Department of	Direct		1 K99 GM141365-01	93.859	Biomedical Research and Research Training	17,344	-
Health and Human Services, Department of	Direct		1 R01 GM126028-01A1	93.859	Biomedical Research and Research Training	(1,718)	-
Health and Human Services, Department of	Direct		1 R01 GM137577-01A1	93.859	Biomedical Research and Research Training	155,714	-
Health and Human Services, Department of	Direct		1 R01 GM139916-01	93.859	Biomedical Research and Research Training	141,386	-
Health and Human Services, Department of	Direct		1 R01 GM139926-01	93.859	Biomedical Research and Research Training	42,494	1,643
Health and Human Services, Department of	Direct		1 R01 GM140135-01	93.859	Biomedical Research and Research Training	213,744	-
Health and Human Services, Department of	Direct		1 R01 GM141086-01	93.859	Biomedical Research and Research Training	43,473	-
Health and Human Services, Department of	Direct		1 R15 GM134389-01	93.859	Biomedical Research and Research Training	22,900	-
Health and Human Services, Department of	Direct		1 R15GM135766-01A1	93.859	Biomedical Research and Research Training	33,113	-
Health and Human Services, Department of	Direct		1 R35 GM133404-01	93.859	Biomedical Research and Research Training	(35,791)	-
Health and Human Services, Department of	Direct		1 R35 GM136341-02	93.859	Biomedical Research and Research Training	403,177	-
Health and Human Services, Department of	Direct		1 R35 GM136360-02	93.859	Biomedical Research and Research Training	66,966	-
Health and Human Services, Department of	Direct Direct		1 R35 GM139484-01 1 R35 GM139573-01	93.859 93.859	Biomedical Research and Research Training Biomedical Research and Research Training	176,600 35,144	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		2 R01 GM056398 22	93.859	Biomedical Research and Research Training	88,345	-
Health and Human Services, Department of	Direct		2 R01 GM050598 22 2 R01 GM065330-14	93.859	Biomedical Research and Research Training	3,567	-
Health and Human Services, Department of	Direct		2 R01 GM083107-13	93.859	Biomedical Research and Research Training	(14,213)	_
Health and Human Services, Department of	Direct		2 R01 GM093088-09	93.859	Biomedical Research and Research Training	102,837	-
Health and Human Services, Department of	Direct		2 R01 GM118651-06	93.859	Biomedical Research and Research Training	299,403	-
Health and Human Services, Department of	Direct		2 R35 GM118073-06	93.859	Biomedical Research and Research Training	35,146	-
Health and Human Services, Department of	Direct		2 R35 GM118133-06	93.859	Biomedical Research and Research Training	43,090	-
Health and Human Services, Department of	Direct		4 R00 GM128180-03	93.859	Biomedical Research and Research Training	21,427	-
Health and Human Services, Department of	Direct		5 R01 GM111486-05	93.859	Biomedical Research and Research Training	95,911	-
Health and Human Services, Department of	Direct		5 F31 GM131631-03	93.859	Biomedical Research and Research Training	14,697	-
Health and Human Services, Department of	Direct		5 F31 GM134671-02	93.859	Biomedical Research and Research Training	16,786	-
Health and Human Services, Department of	Direct		5 F31 GM139291-02	93.859	Biomedical Research and Research Training	44,593	-
Health and Human Services, Department of	Direct		5 F31 GM139387-02	93.859	Biomedical Research and Research Training	48,848	-
Health and Human Services, Department of	Direct		5 F32 FM126635-02	93.859	Biomedical Research and Research Training	16,385	-
Health and Human Services, Department of	Direct Direct		5 F32 GM130010-02 5 F32 GM133099-02	93.859 93.859	Biomedical Research and Research Training	609 59,261	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 F32 GM133099-02 5 F32 GM136020-02	93.859 93.859	Biomedical Research and Research Training Biomedical Research and Research Training	59,261 66,913	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 F32 GM136020-02	93.859	Biomedical Research and Research Training	67,183	-
Health and Human Services, Department of	Direct		5 F32 GM136022-02 5 F32 GM137513-02	93.859	Biomedical Research and Research Training	67,721	-
Health and Human Services, Department of	Direct		5 F32 GM137515-02 5 F32 GM137527-02	93.859	Biomedical Research and Research Training	60,023	-
Health and Human Services, Department of	Direct		5 K12 GM11725-05	93.859	Biomedical Research and Research Training	700,578	60,191
Health and Human Services, Department of	Direct		5 K23 GM126317-04	93.859	Biomedical Research and Research Training	170,059	-
Health and Human Services, Department of	Direct		5 R00 GM117268-05	93.859	Biomedical Research and Research Training	(6,134)	-
Health and Human Services, Department of	Direct		5 R00 GM127757-04	93.859	Biomedical Research and Research Training	242,979	-
Health and Human Services, Department of	Direct		5 R01 GM024872 44	93.859	Biomedical Research and Research Training	443,642	-
Health and Human Services, Department of	Direct		5 R01 GM024872-42	93.859	Biomedical Research and Research Training	26,493	-
Health and Human Services, Department of	Direct		5 R01 GM037554-28	93.859	Biomedical Research and Research Training	(7)	-
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				Assistance Listi			Passed-Through
Cluster Title/Federal Grantor/Program	Type	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures to	o Subrecipients
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5 R01 GM053536-20 5 R01 GM056398-21	93.859 93.859	Biomedical Research and Research Training Biomedical Research and Research Training	(7,670) 220,876	-
Health and Human Services, Department of	Direct		5 R01 GM062261-22	93.859	Biomedical Research and Research Training	448,615	13,246
Health and Human Services, Department of	Direct		5 R01 GM076477-12	93.859	Biomedical Research and Research Training	3,761	15,240
Health and Human Services, Department of	Direct		5 R01 GM077430 15	93.859	Biomedical Research and Research Training	569,664	23,930
Health and Human Services, Department of	Direct		5 R01 GM081702-08	93.859	Biomedical Research and Research Training	(676)	25,750
Health and Human Services, Department of	Direct		5 R01 GM081702-08	93.859	Biomedical Research and Research Training	(5,124)	
Health and Human Services, Department of	Direct		5 R01 GM084127-09	93.859	Biomedical Research and Research Training	(679)	
Health and Human Services, Department of	Direct		5 R01 GM086596-11	93.859	Biomedical Research and Research Training	414,849	
Health and Human Services, Department of	Direct		5 R01 GM086610-10	93.859	Biomedical Research and Research Training	(183,712)	_
Health and Human Services, Department of	Direct		5 R01 GM08001010 5 R01 GM088242 13	93.859	Biomedical Research and Research Training	202,231	19,512
Health and Human Services, Department of	Direct		5 R01 GM093088-08	93.859	Biomedical Research and Research Training	(1,259)	17,512
Health and Human Services, Department of	Direct		5 R01 GM094231 12	93.859	Biomedical Research and Research Training	405,663	_
Health and Human Services, Department of	Direct		5 R01 GM094251 12 5 R01 GM095832-08	93.859	Biomedical Research and Research Training	184,103	
Health and Human Services, Department of	Direct		5 R01 GM098578-08	93.859	Biomedical Research and Research Training	38,489	_
Health and Human Services, Department of	Direct		5 R01 GM101171-09	93.859	Biomedical Research and Research Training	254,870	
Health and Human Services, Department of	Direct		5 R01 GM101171-05 5 R01 GM103232-06	93.859	Biomedical Research and Research Training	125,960	
Health and Human Services, Department of	Direct		5 R01 GM103252-00	93.859	Biomedical Research and Research Training	(13)	
Health and Human Services, Department of	Direct		5 R01 GM103095-11	93.859	Biomedical Research and Research Training	4,285	-
Health and Human Services, Department of	Direct		5 R01 GM10/148-05 5 R01 GM108468-04	93.859	Biomedical Research and Research Training	(19,163)	
Health and Human Services, Department of	Direct		5 R01 GM108408-04	93.859	Biomedical Research and Research Training	14,691	
	Direct		5 R01 GM110052-08	93.859	Biomedical Research and Research Training	501,830	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 R01 GM110052-08	93.859 93.859	Biomedical Research and Research Training	17,369	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 R01 GM110289-04 5 R01 GM111293 06	93.859 93.859	Biomedical Research and Research Training	411,693	-
	Direct		5 R01 GM111295 00	93.859	Biomedical Research and Research Training	(57,162)	-
Health and Human Services, Department of Health and Human Services, Department of				93.859	-	40,451	-
Health and Human Services, Department of	Direct		5 R01 GM111400-04 5 R01 GM111007 05	93.859	Biomedical Research and Research Training Biomedical Research and Research Training	47,671	-
	Direct		5 R01 GM111997-05		6		-
Health and Human Services, Department of	Direct		5 R01 GM112786-04	93.859	Biomedical Research and Research Training	(2,468)	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 R01 GM112794-05	93.859	Biomedical Research and Research Training	88,705	-
	Direct		5 R01 GM112794-07	93.859	Biomedical Research and Research Training	275,458	-
Health and Human Services, Department of	Direct		5 R01 GM115481-04	93.859	Biomedical Research and Research Training	2,458	-
Health and Human Services, Department of	Direct		5 R01 GM116204-04	93.859	Biomedical Research and Research Training	(410)	5,708
Health and Human Services, Department of	Direct		5 R01 GM117141-06	93.859	Biomedical Research and Research Training	223,056	-
Health and Human Services, Department of	Direct		5 R01 GM118308-04	93.859	Biomedical Research and Research Training	23,804	-
Health and Human Services, Department of	Direct		5 R01 GM118475-05	93.859	Biomedical Research and Research Training	216,533	-
Health and Human Services, Department of	Direct		5 R01 GM118524-03	93.859	Biomedical Research and Research Training	8,393	-
Health and Human Services, Department of	Direct		5 R01 GM118644-05	93.859	Biomedical Research and Research Training	237,577	-
Health and Human Services, Department of	Direct		5 R01 GM118647-04	93.859	Biomedical Research and Research Training	47,618	-
Health and Human Services, Department of	Direct		5 R01 GM118751-04	93.859	Biomedical Research and Research Training	(21,366)	-
Health and Human Services, Department of	Direct		5 R01 GM120056-05	93.859	Biomedical Research and Research Training	575,399	-
Health and Human Services, Department of	Direct		5 R01 GM120093-04	93.859	Biomedical Research and Research Training	(103)	-
Health and Human Services, Department of	Direct		5 R01 GM120094-05	93.859	Biomedical Research and Research Training	183,468	-
Health and Human Services, Department of	Direct		5 R01 GM120142-06	93.859	Biomedical Research and Research Training	352,681	-
Health and Human Services, Department of	Direct		5 R01 GM120767-14	93.859	Biomedical Research and Research Training	119,376	-
Health and Human Services, Department of	Direct		5 R01 GM121656-04	93.859	Biomedical Research and Research Training	180,057	77,972
Health and Human Services, Department of	Direct		5 R01 GM121919-04	93.859	Biomedical Research and Research Training	225,244	-
Health and Human Services, Department of	Direct		5 R01 GM122434-04	93.859	Biomedical Research and Research Training	312,137	7,156
Health and Human Services, Department of	Direct		5 R01 GM122803-03	93.859	Biomedical Research and Research Training	20,766	-
Health and Human Services, Department of	Direct		5 R01 GM123069-03	93.859	Biomedical Research and Research Training	(7,685)	-
Health and Human Services, Department of	Direct		5 R01 GM123513-04	93.859	Biomedical Research and Research Training	143,217	-
Health and Human Services, Department of	Direct		5 R01 GM124030-04	93.859	Biomedical Research and Research Training	291,147	115 756
Health and Human Services, Department of	Direct		5 R01 GM124061-05	93.859 93.859	Biomedical Research and Research Training	374,402	115,756
Health and Human Services, Department of	Direct		5 R01 GM124174-04		Biomedical Research and Research Training	369,382	-
Health and Human Services, Department of	Direct		5 R01 GM124248-04	93.859	Biomedical Research and Research Training	215,319	159 272
Health and Human Services, Department of	Direct		5 R01 GM124251-04	93.859	Biomedical Research and Research Training	226,550	158,272
Health and Human Services, Department of	Direct		5 R01 GM124283-04	93.859	Biomedical Research and Research Training	262,043	-
Health and Human Services, Department of	Direct		5 R01 GM124571-04	93.859	Biomedical Research and Research Training	481,403	-
Health and Human Services, Department of	Direct		5 R01 GM127367-04	93.859	Biomedical Research and Research Training	279,042	20.546
Health and Human Services, Department of	Direct		5 R01 GM127774-04	93.859	Biomedical Research and Research Training	505,172	30,546
Health and Human Services, Department of	Direct		5 R01 GM127787-03	93.859	Biomedical Research and Research Training	778,476	-
Health and Human Services, Department of	Direct		5 R01 GM129123-04	93.859	Biomedical Research and Research Training	442,229	-
Health and Human Services, Department of	Direct		5 R01 GM129347-03	93.859	Biomedical Research and Research Training	215,897	24,613
Health and Human Services, Department of	Direct		5 R01 GM130763-03S1	93.859	Biomedical Research and Research Training	206,389	210.044
Health and Human Services, Department of	Direct		5 R01 GM130997-03	93.859	Biomedical Research and Research Training	376,450	310,944
Health and Human Services, Department of	Direct		5 R01 GM133858-02	93.859	Biomedical Research and Research Training	119,204	-
Health and Human Services, Department of	Direct		5 R01 GM133873-03	93.859	Biomedical Research and Research Training	387,092	-
Health and Human Services, Department of	Direct		5 R01 GM135252-03	93.859	Biomedical Research and Research Training	278,105	-
Health and Human Services, Department of	Direct		5 R01 GM135346-02	93.859	Biomedical Research and Research Training	127,120	-
Health and Human Services, Department of	Direct		5 R01 GM136822-02	93.859	Biomedical Research and Research Training	100,058	-
Health and Human Services, Department of	Direct		5 R01 GM138620-02	93.859	Biomedical Research and Research Training	225,193	-
Health and Human Services, Department of	Direct		5 R01 GM139842 02	93.859	Biomedical Research and Research Training	121,006	-
Health and Human Services, Department of	Direct		5 R01GM062357-17	93.859	Biomedical Research and Research Training	44,396	

	T			Assistance Listi	0		Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures to	o Subrecipients
Health and Human Services, Department of Health and Human Services, Department of	Direct		5 R01GM065372-13 5 R01CM072826 14	93.859 93.859	Biomedical Research and Research Training Biomedical Research and Research Training	315,306 81,620	-
Health and Human Services, Department of	Direct Direct		5 R01GM073836-14 5 R01GM086610-12	93.859	Biomedical Research and Research Training	291,442	-
Health and Human Services, Department of	Direct		5 R01GM103804-09	93.859	Biomedical Research and Research Training	302,188	-
Health and Human Services, Department of	Direct		5 R01GM111476-05	93.859	Biomedical Research and Research Training	(199)	
Health and Human Services, Department of	Direct		5 R01GM117425-06	93.859	Biomedical Research and Research Training	322,273	_
Health and Human Services, Department of	Direct		5 R01GM118651-04	93.859	Biomedical Research and Research Training	(290)	_
Health and Human Services, Department of	Direct		5 R01GM120110-05	93.859	Biomedical Research and Research Training	382,830	-
Health and Human Services, Department of	Direct		5 R01-GM125110 05	93.859	Biomedical Research and Research Training	255,928	
Health and Human Services, Department of	Direct		5 R01GM129255 03	93.859	Biomedical Research and Research Training	317,111	21,649
Health and Human Services, Department of	Direct		5 R01GM132342-02	93.859	Biomedical Research and Research Training	147,015	
Health and Human Services, Department of	Direct		5 R13 GM117845-03	93.859	Biomedical Research and Research Training	3,505	
Health and Human Services, Department of	Direct		5 R21 GM128022 02	93.859	Biomedical Research and Research Training	65,903	
Health and Human Services, Department of	Direct		5 R21 GM134157-02	93.859	Biomedical Research and Research Training	251,290	
Health and Human Services, Department of	Direct		5 R21 GM140359-02	93.859	Biomedical Research and Research Training	58,361	
Health and Human Services, Department of	Direct		5 R21GM134285-02	93.859	Biomedical Research and Research Training	259,806	118,655
Health and Human Services, Department of	Direct		5 R25 GM086262-13	93.859	Biomedical Research and Research Training	376,321	
Health and Human Services, Department of	Direct		5 R35 GM118101-05	93.859	Biomedical Research and Research Training	295,640	-
Health and Human Services, Department of	Direct		5 R35 GM119688-05	93.859	Biomedical Research and Research Training	540,140	
Health and Human Services, Department of	Direct		5 R35 GM122506-05	93.859	Biomedical Research and Research Training	546,129	-
Health and Human Services, Department of	Direct		5 R35 GM124875-05	93.859	Biomedical Research and Research Training	311,196	
Health and Human Services, Department of	Direct		5 R35 GM124880-05	93.859	Biomedical Research and Research Training	390,590	-
Health and Human Services, Department of	Direct		5 R35 GM124000-05	93.859	Biomedical Research and Research Training	464,361	-
Health and Human Services, Department of	Direct		5 R35 GM126983-04S1	93.859	Biomedical Research and Research Training	545,363	-
Health and Human Services, Department of	Direct		5 R35 GM127303-04	93.859	Biomedical Research and Research Training	771,901	
Health and Human Services, Department of	Direct		5 R35 GM128592-04	93.859	Biomedical Research and Research Training	447,050	_
Health and Human Services, Department of	Direct		5 R35 GM128637-04	93.859	Biomedical Research and Research Training	405,560	
Health and Human Services, Department of	Direct		5 R35 GM128768-04	93.859	Biomedical Research and Research Training	484,134	
Health and Human Services, Department of	Direct		5 R35 GM128819-04	93.859	Biomedical Research and Research Training	341,891	_
Health and Human Services, Department of	Direct		5 R35 GM128830-04	93.859	Biomedical Research and Research Training	358,228	
Health and Human Services, Department of	Direct		5 R35 GM128836-04	93.859	Biomedical Research and Research Training	210,093	-
Health and Human Services, Department of	Direct		5 R35 GM130292 03	93.859	Biomedical Research and Research Training	519,606	
Health and Human Services, Department of	Direct		5 R35 GM130331-03	93.859	Biomedical Research and Research Training	449,455	_
Health and Human Services, Department of	Direct		5 R35 GM130587-03	93.859	Biomedical Research and Research Training	1,100,846	
Health and Human Services, Department of	Direct		5 R35 GM131720-03	93.859	Biomedical Research and Research Training	482,449	14,218
Health and Human Services, Department of	Direct		5 R35 GM131744-03	93.859	Biomedical Research and Research Training	742,955	
Health and Human Services, Department of	Direct		5 R35 GM131772-03	93.859	Biomedical Research and Research Training	347,748	
Health and Human Services, Department of	Direct		5 R35 GM131835 03	93.859	Biomedical Research and Research Training	361,373	38,541
Health and Human Services, Department of	Direct		5 R35 GM131919-03	93.859	Biomedical Research and Research Training	741,332	-
Health and Human Services, Department of	Direct		5 R35 GM131922-03	93.859	Biomedical Research and Research Training	793,313	
Health and Human Services, Department of	Direct		5 R35 GM133325-03	93.859	Biomedical Research and Research Training	616,914	-
Health and Human Services, Department of	Direct		5 R35 GM133346-03	93.859	Biomedical Research and Research Training	212,314	-
Health and Human Services, Department of	Direct		5 R35 GM136300-02	93.859	Biomedical Research and Research Training	291,417	-
Health and Human Services, Department of	Direct		5 R35 GM136312-02	93.859	Biomedical Research and Research Training	326,432	-
Health and Human Services, Department of	Direct		5 R35 GM136332-02	93.859	Biomedical Research and Research Training	335,804	-
Health and Human Services, Department of	Direct		5 R35 GM136356-02	93.859	Biomedical Research and Research Training	742,544	
Health and Human Services, Department of	Direct		5 R35 GM136422-02	93.859	Biomedical Research and Research Training	518,443	
Health and Human Services, Department of	Direct		5 R35 GM137795-02	93.859	Biomedical Research and Research Training	258,138	-
Health and Human Services, Department of	Direct		5 R35 GM137832-02	93.859	Biomedical Research and Research Training	285,350	-
Health and Human Services, Department of	Direct		5 R35 GM138121-02	93.859	Biomedical Research and Research Training	236,592	-
Health and Human Services, Department of	Direct		5 R35 GM138271-02	93.859	Biomedical Research and Research Training	272,300	-
Health and Human Services, Department of	Direct		5 R35 GM138279-02	93.859	Biomedical Research and Research Training	269,985	-
Health and Human Services, Department of	Direct		5 R35 GM138346-02	93.859	Biomedical Research and Research Training	346,881	-
Health and Human Services, Department of	Direct		5 R35GM118073-05	93.859	Biomedical Research and Research Training	169,564	-
Health and Human Services, Department of	Direct		5 R35GM118133-05	93.859	Biomedical Research and Research Training	245,986	-
Health and Human Services, Department of	Direct		5 R35GM130183-03	93.859	Biomedical Research and Research Training	417,021	-
Health and Human Services, Department of	Direct		5 R35GM133737-03	93.859	Biomedical Research and Research Training	399,712	-
Health and Human Services, Department of	Direct		5 R35GM136441-02	93.859	Biomedical Research and Research Training	289,719	-
Health and Human Services, Department of	Direct		5 R35GM137833-02	93.859	Biomedical Research and Research Training	276,291	-
Health and Human Services, Department of	Direct		5 R37 GM039451-35	93.859	Biomedical Research and Research Training	335,317	-
Health and Human Services, Department of	Direct		5 R37 GM062261-19	93.859	Biomedical Research and Research Training	(276)	-
Health and Human Services, Department of	Direct		5 R37 GM076343-15	93.859	Biomedical Research and Research Training	7,749	-
Health and Human Services, Department of	Direct		5 R37 GM076343-17	93.859	Biomedical Research and Research Training	424,186	-
Health and Human Services, Department of	Direct		5 U01 GM110712-05	93.859	Biomedical Research and Research Training	67,807	-
Health and Human Services, Department of	Direct		5 U54 AI150470-10	93.859	Biomedical Research and Research Training	5,211,895	3,719,710
Health and Human Services, Department of	Direct		7 R01 GM114471-06	93.859	Biomedical Research and Research Training	116,709	-
Health and Human Services, Department of	Direct		T32 GM007315	93.859	Biomedical Research and Research Training	696,748	-
Health and Human Services, Department of	Direct		T32 GM007544	93.859	Biomedical Research and Research Training	578,278	-
Health and Human Services, Department of	Direct		T32 GM007767	93.859	Biomedical Research and Research Training	(146,710)	-
Health and Human Services, Department of	Direct		T32 GM007863	93.859	Biomedical Research and Research Training	(750,882)	-
Health and Human Services, Department of	Direct		T32 GM007863	93.859	Biomedical Research and Research Training	1,976,688	-
Health and Human Services, Department of	Direct		T32 GM008322	93.859	Biomedical Research and Research Training	318,613	-
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Index         Part-Transfer         Part-Transfer         (13,15)           Index         Part-Tran	Health and Human Services, Department of	Pass-Through The Buck Institute for R	esearch on Aging	SA41001-UM, PO# 59638	93.859	Biomedical Research and Research Training	10,569	-
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Health and Human Services, Department ofDirect5 K01 HD079554.0593.865Child Health and Human Development Extramural Research41,159Health and Human Services, Department ofDirect5 K12 HD02820-2993.865Child Health and Human Development Extramural Research36/03Health and Human Services, Department ofDirect5 K12 HD028207-1093.865Child Health and Human Development Extramural Research61,616Health and Human Services, Department ofDirect5 K12 HD063527-10593.865Child Health and Human Development Extramural Research145,644								-
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Hauft and Human Services, Department of Direct 5K23 HD092626-05 93.865 Child Health and Human Development Extramural Research 173,580								-

Churchen Title/Field 1 C / D	Turne	Deer Three L.C. (		Assistance Listi		Federal F - Pr	Passed-Through
Cluster Title/Federal Grantor/Program	Type	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5 K23 HD093815-03 5 K23 HD099283 02	93.865 93.865	Child Health and Human Development Extramural Research Child Health and Human Development Extramural Research	153,340 113,164	-
Health and Human Services, Department of	Direct		5 P01 HD087155-05	93.865	Child Health and Human Development Extramural Research	654,118	86,225
Health and Human Services, Department of	Direct		5 P2C HD041028-20	93.865	Child Health and Human Development Extramutal Research	504,996	
Health and Human Services, Department of	Direct		5 R00 HD084758-05	93.865	Child Health and Human Development Extramural Research	95,471	_
Health and Human Services, Department of	Direct		5 R01 DK041469-20	93.865	Child Health and Human Development Extramutal Research	489,597	_
Health and Human Services, Department of	Direct		5 R01 HD015434-38	93.865	Child Health and Human Development Extramural Research	562,843	-
Health and Human Services, Department of	Direct		5 R01 HD034283-25	93.865	Child Health and Human Development Extramural Research	325,761	-
Health and Human Services, Department of	Direct		5 R01 HD052646-13	93.865	Child Health and Human Development Extramural Research	2,069,854	-
Health and Human Services, Department of	Direct		5 R01 HD069609-10	93.865	Child Health and Human Development Extramural Research	2,474	-
Health and Human Services, Department of	Direct		5 R01 HD069702-11	93.865	Child Health and Human Development Extramural Research	523,534	-
Health and Human Services, Department of	Direct		5 R01 HD073475-05	93.865	Child Health and Human Development Extramural Research	(8,651)	-
Health and Human Services, Department of	Direct		5 R01 HD075806-05	93.865	Child Health and Human Development Extramural Research	107,436	-
Health and Human Services, Department of	Direct		5 R01 HD078397-05	93.865	Child Health and Human Development Extramural Research	(12,790)	-
Health and Human Services, Department of	Direct		5 R01 HD082122-05	93.865	Child Health and Human Development Extramural Research	401,099	245,203
Health and Human Services, Department of	Direct		5 R01 HD084163-05	93.865	Child Health and Human Development Extramural Research	62,850	-
Health and Human Services, Department of	Direct		5 R01 HD084526-06	93.865	Child Health and Human Development Extramural Research	390,737	53,432
Health and Human Services, Department of	Direct		5 R01 HD084633-05	93.865	Child Health and Human Development Extramural Research	475,414	173,767
Health and Human Services, Department of	Direct		5 R01 HD084652-05	93.865	Child Health and Human Development Extramural Research	296,892	15,828
Health and Human Services, Department of	Direct		5 R01 HD085233-05	93.865	Child Health and Human Development Extramural Research	288,201	200,418
Health and Human Services, Department of	Direct		5 R01 HD086583-05	93.865	Child Health and Human Development Extramural Research	360,130	68,402
Health and Human Services, Department of	Direct		5 R01 HD088506-05	93.865	Child Health and Human Development Extramural Research	312,896	168,469
Health and Human Services, Department of	Direct		5 R01 HD088521-05	93.865	Child Health and Human Development Extramural Research	475,804	-
Health and Human Services, Department of	Direct		5 R01 HD088638-04	93.865	Child Health and Human Development Extramural Research	572,181	189,510
Health and Human Services, Department of	Direct		5 R01 HD088712-05	93.865	Child Health and Human Development Extramural Research	523,071	88,959
Health and Human Services, Department of	Direct		5 R01 HD092498-04	93.865	Child Health and Human Development Extramural Research	361,593	-
Health and Human Services, Department of	Direct		5 R01 HD093450-04	93.865	Child Health and Human Development Extramural Research	530,209	328,235
Health and Human Services, Department of	Direct		5 R01 HD093570-03	93.865	Child Health and Human Development Extramural Research	134,235	-
Health and Human Services, Department of	Direct		5 R01 HD093611-04	93.865	Child Health and Human Development Extramural Research	461,461	52,281
Health and Human Services, Department of	Direct		5 R01 HD093733-04	93.865	Child Health and Human Development Extramural Research	456,199	-
Health and Human Services, Department of	Direct		5 R01 HD094736-04	93.865	Child Health and Human Development Extramural Research	384,289	-
Health and Human Services, Department of	Direct		5 R01 HD094772-04	93.865	Child Health and Human Development Extramural Research	499,734	-
Health and Human Services, Department of	Direct		5 R01 HD094954-03	93.865	Child Health and Human Development Extramural Research	208,931	-
Health and Human Services, Department of	Direct		5 R01 HD095053-02	93.865	Child Health and Human Development Extramural Research	66,132	12,916
Health and Human Services, Department of	Direct		5 R01 HD095463-04	93.865	Child Health and Human Development Extramural Research	443,861	-
Health and Human Services, Department of	Direct		5 R01 HD095920-04	93.865	Child Health and Human Development Extramural Research	680,897	-
Health and Human Services, Department of	Direct		5 R01 HD096277-04	93.865	Child Health and Human Development Extramural Research	460,903	139,187
Health and Human Services, Department of	Direct		5 R01 HD097096-03	93.865	Child Health and Human Development Extramural Research	593,841	-
Health and Human Services, Department of	Direct		5 R01 HD097107- 03	93.865	Child Health and Human Development Extramural Research	166,256	-
Health and Human Services, Department of	Direct		5 R01 HD098233-03	93.865	Child Health and Human Development Extramural Research	639,627	-
Health and Human Services, Department of	Direct		5 R01 HD099402-02	93.865	Child Health and Human Development Extramural Research	132,648	-
Health and Human Services, Department of	Direct		5 R01 HD100438-02	93.865	Child Health and Human Development Extramural Research	112,297	-
Health and Human Services, Department of	Direct		5 R01HD084163-07	93.865	Child Health and Human Development Extramural Research	138,979	5,617
Health and Human Services, Department of	Direct		5 R01HD093626-03	93.865	Child Health and Human Development Extramural Research	500,799	-
Health and Human Services, Department of	Direct		5 R01HD099096-02	93.865	Child Health and Human Development Extramural Research	295,179	182,759
Health and Human Services, Department of	Direct		5 R03 HD091480-02	93.865	Child Health and Human Development Extramural Research	775	-
Health and Human Services, Department of	Direct		5 R03 HD092639-02	93.865	Child Health and Human Development Extramural Research	23,417	-
Health and Human Services, Department of	Direct		5 R03 HD093876-02	93.865	Child Health and Human Development Extramural Research	252	-
Health and Human Services, Department of	Direct		5 R03 HD094077-02	93.865	Child Health and Human Development Extramural Research	7,079	-
Health and Human Services, Department of	Direct		5 R03 HD095717-02	93.865	Child Health and Human Development Extramural Research	18,218	-
Health and Human Services, Department of	Direct		5 R03 HD096189 012	93.865	Child Health and Human Development Extramural Research	31,055	-
Health and Human Services, Department of	Direct		5 R03 HD097704-02	93.865	Child Health and Human Development Extramural Research	130,342	-
Health and Human Services, Department of	Direct		5 R03 HD099097-02	93.865	Child Health and Human Development Extramural Research	51,180	-
Health and Human Services, Department of	Direct		5 R03 HD100443 02	93.865	Child Health and Human Development Extramural Research	68,255	-
Health and Human Services, Department of	Direct		5 R03 HD100602 02	93.865	Child Health and Human Development Extramural Research	68,109	-
Health and Human Services, Department of	Direct		5 R03HD101501 02	93.865	Child Health and Human Development Extramural Research	38,192	-
Health and Human Services, Department of	Direct		5 R21 HD090366-02	93.865	Child Health and Human Development Extramural Research	8,259	-
Health and Human Services, Department of	Direct		5 R21 HD092526-02	93.865	Child Health and Human Development Extramural Research	92,847	-
Health and Human Services, Department of	Direct		5 R21 HD092614-02	93.865	Child Health and Human Development Extramural Research	(20,047)	-
Health and Human Services, Department of	Direct		5 R21 HD093835-02	93.865	Child Health and Human Development Extramural Research	41,886	-
Health and Human Services, Department of	Direct		5 R21 HD094051-02	93.865	Child Health and Human Development Extramural Research	57,336	
Health and Human Services, Department of	Direct		5 R21 HD094961-02	93.865	Child Health and Human Development Extramural Research	62,631	61,071
Health and Human Services, Department of	Direct		5 R21 HD095501-02	93.865	Child Health and Human Development Extramural Research	105,645	-
Health and Human Services, Department of	Direct		5 R21 HD096251-02	93.865	Child Health and Human Development Extramural Research	49,871	-
Health and Human Services, Department of	Direct		5 R21 HD097234 02	93.865	Child Health and Human Development Extramural Research	193,658	-
Health and Human Services, Department of	Direct		5 R21 HD097663-02	93.865	Child Health and Human Development Extramural Research	165,527	53,743
Health and Human Services, Department of	Direct		5 R21 HD098416-02	93.865	Child Health and Human Development Extramural Research	193,956	-
Health and Human Services, Department of	Direct		5 R21 HD100931-02	93.865	Child Health and Human Development Extramural Research	72,893	-
Health and Human Services, Department of	Direct		5 R21HD097387-02	93.865	Child Health and Human Development Extramural Research	198,974	37,304
Health and Human Services, Department of	Direct		5 R24 HD048404-17	93.865	Child Health and Human Development Extramural Research	730,774	-
Health and Human Services, Department of	Direct		5 R24 HD087149-04	93.865	Child Health and Human Development Extramural Research	905,241	211,207
Health and Human Services, Department of	Direct		5 R25 HD078226-05	93.865	Child Health and Human Development Extramural Research	(1,598)	

				Assistance Listi	ing		Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	to Subrecipients
Health and Human Services, Department of	Direct		5 R25 HD082971-05	93.865	Child Health and Human Development Extramural Research	97,328	
Health and Human Services, Department of	Direct		5 R25 HD083146-05	93.865	Child Health and Human Development Extramural Research	151,780	87,256
Health and Human Services, Department of	Direct		5 R25 HD084385-05	93.865	Child Health and Human Development Extramural Research	72,351	-
Health and Human Services, Department of	Direct		5 R37 HD034860-25	93.865	Child Health and Human Development Extramural Research	471,698	-
Health and Human Services, Department of	Direct		5 U24 HD048404-15	93.865	Child Health and Human Development Extramural Research	10,172	-
Health and Human Services, Department of	Direct		5 UH3 HD087979-05	93.865	Child Health and Human Development Extramural Research	842,864	-
Health and Human Services, Department of	Direct		7 R03 HD094594-03	93.865	Child Health and Human Development Extramural Research	75,602	-
Health and Human Services, Department of	Direct Direct		9 R01 HD104173-05A1 T32 HD007109	93.865 93.865	Child Health and Human Development Extramural Research	9,925 367,881	-
Health and Human Services, Department of Health and Human Services, Department of	Direct		T32 HD007109	93.865	Child Health and Human Development Extramural Research Child Health and Human Development Extramural Research	6,029	-
Health and Human Services, Department of	Direct		T32 HD007109	93.865	Child Health and Human Development Extramutal Research	487,894	_
Health and Human Services, Department of	Direct		T32 HD007505	93.865	Child Health and Human Development Extramural Research	368,084	_
Health and Human Services, Department of	Direct		T32 HD079342	93.865	Child Health and Human Development Extramutal Research	179,038	
Health and Human Services, Department of	Direct		T32 HD079350	93.865	Child Health and Human Development Extramural Research	27,586	_
Health and Human Services, Department of	Pass-Through Albert Einstei	in College of Medicine	310897	93.865	Child Health and Human Development Extramural Research	15,542	_
Health and Human Services, Department of		ert H. Lurie Children's Hospital of Chicago	Subaward No. 901548-UM	93.865	Child Health and Human Development Extramural Research	52,028	-
Health and Human Services, Department of	Pass-Through Baylor Colleg	1 0	7000001044	93.865	Child Health and Human Development Extramural Research	208,960	_
Health and Human Services, Department of	Pass-Through Baylor Univer		7000001239	93.865	Child Health and Human Development Extramural Research	401,075	-
Health and Human Services, Department of	Pass-Through Boston Univer		4500003526	93.865	Child Health and Human Development Extramural Research	34,872	_
Health and Human Services, Department of	Pass-Through Bowling Gree		10008712-UMICH	93.865	Child Health and Human Development Extramural Research	(4,952)	_
Health and Human Services, Department of	Pass-Through Brandeis Univ		403519	93.865	Child Health and Human Development Extramutal Research	162,616	-
Health and Human Services, Department of	Pass-Through Brown Univer		00001324	93.865	Child Health and Human Development Extramural Research	37,677	-
Health and Human Services, Department of	Pass-Through Cal Poly Corp		2019-7-58223	93.865	Child Health and Human Development Extramutal Research	39,964	_
Health and Human Services, Department of	Pass-Through Central Michi		F63376	93.865	Child Health and Human Development Extramural Research	29,995	-
Health and Human Services, Department of		hildren's Hospital Medical Center (CCHMC)	Sub-award No 305632/3100653316	93.865	Child Health and Human Development Extramural Research	(1,890)	-
Health and Human Services, Department of	Pass-Through Cornell Unive		83328-11165	93.865	Child Health and Human Development Extramural Research	40,227	-
Health and Human Services, Department of	Pass-Through Duke Univers		A03-1155	93.865	Child Health and Human Development Extramural Research	52,220	-
Health and Human Services, Department of	Pass-Through Eastern Michi		R70507-3215	93.865	Child Health and Human Development Extramural Research	439,704	-
Health and Human Services, Department of	Pass-Through Emory Univer		T852991	93.865	Child Health and Human Development Extramural Research	89,673	-
Health and Human Services, Department of	Pass-Through Florida State		R000002658	93.865	Child Health and Human Development Extramural Research	22,343	-
Health and Human Services, Department of	Pass-Through Florida State		R000002659	93.865	Child Health and Human Development Extramural Research	29,796	-
Health and Human Services, Department of	Pass-Through Florida State		R02161	93.865	Child Health and Human Development Extramural Research	987	-
Health and Human Services, Department of	Pass-Through George Wash		17-M102	93.865	Child Health and Human Development Extramural Research	18,827	-
Health and Human Services, Department of	Pass-Through Georgia Instit		AWD-101651-G1	93.865	Child Health and Human Development Extramural Research	18,072	-
Health and Human Services, Department of	Pass-Through Indiana Unive		7993	93.865	Child Health and Human Development Extramural Research	30,756	-
Health and Human Services, Department of	Pass-Through Indiana Unive		JAS8842-UM	93.865	Child Health and Human Development Extramural Research	60,806	-
Health and Human Services, Department of	Pass-Through Indiana Unive		PO# 0131499 7993	93.865	Child Health and Human Development Extramural Research	(387)	-
Health and Human Services, Department of	Pass-Through Johns Hopkin		JHU Checklist# 5957, Task Orde	93.865	Child Health and Human Development Extramural Research	531,742	-
Health and Human Services, Department of	Pass-Through Johns Hopkin		JHU Checklist# 5957, Task Orde	93.865	Child Health and Human Development Extramural Research	199,927	-
Health and Human Services, Department of	Pass-Through Johns Hopkin		Task Order #5	93.865	Child Health and Human Development Extramural Research	311,391	-
Health and Human Services, Department of	Pass-Through Massachusett		233249	93.865	Child Health and Human Development Extramural Research	62,357	-
Health and Human Services, Department of	Pass-Through Mayo Clinic		THE-208735-04	93.865	Child Health and Human Development Extramural Research	9,671	-
Health and Human Services, Department of	Pass-Through Medical Colle	ege of Wisconsin	R01HD098231	93.865	Child Health and Human Development Extramural Research	33,112	-
Health and Human Services, Department of	Pass-Through Medical Colle		R01HD098231	93.865	Child Health and Human Development Extramural Research	34,944	-
Health and Human Services, Department of	Pass-Through Medical Colle		R01HD102496	93.865	Child Health and Human Development Extramural Research	37,440	-
Health and Human Services, Department of	Pass-Through Michigan Stat		RC106674B	93.865	Child Health and Human Development Extramural Research	201,884	-
Health and Human Services, Department of	Pass-Through Michigan Stat		RC106691C	93.865	Child Health and Human Development Extramural Research	148,389	-
Health and Human Services, Department of	Pass-Through Michigan Stat	te University	RC107642UM	93.865	Child Health and Human Development Extramural Research	257,191	-
Health and Human Services, Department of	Pass-Through Michigan Stat	te University	RC109029UM	93.865	Child Health and Human Development Extramural Research	3,040	-
Health and Human Services, Department of	Pass-Through Michigan Stat		RC109609UM	93.865	Child Health and Human Development Extramural Research	9,579	-
Health and Human Services, Department of	Pass-Through Michigan Stat		RC110267UM	93.865	Child Health and Human Development Extramural Research	17,556	-
Health and Human Services, Department of	Pass-Through Michigan Stat		RC111566B	93.865	Child Health and Human Development Extramural Research	23,349	-
Health and Human Services, Department of	Pass-Through Michigan Stat		RC111625B	93.865	Child Health and Human Development Extramural Research	240,694	-
Health and Human Services, Department of	Pass-Through New York Un		18-A1-00-1001408	93.865	Child Health and Human Development Extramural Research	(6,522)	-
Health and Human Services, Department of	Pass-Through New York Un	niversity	18-A1-00-1001408/111359	93.865	Child Health and Human Development Extramural Research	13,440	-
Health and Human Services, Department of	Pass-Through New York Un	iversity	18-A1-00-1001408/111359	93.865	Child Health and Human Development Extramural Research	4,256	-
Health and Human Services, Department of	Pass-Through Pennsylvania		5469-UM-DHHS-0659	93.865	Child Health and Human Development Extramural Research	32,162	-
Health and Human Services, Department of	Pass-Through Princeton Uni		SUB0000342	93.865	Child Health and Human Development Extramural Research	89,727	-
Health and Human Services, Department of	Pass-Through Princeton Uni		SUB0000416	93.865	Child Health and Human Development Extramural Research	26,869	-
Health and Human Services, Department of		itute at Nationwide Children's Hospital	700171-0720-00	93.865	Child Health and Human Development Extramural Research	3,906	-
Health and Human Services, Department of		itute at Nationwide Children's Hospital	700171-0721-00	93.865	Child Health and Human Development Extramural Research	8,536	-
Health and Human Services, Department of	Pass-Through Riverside Res		NYO 11367.08.01.2019b	93.865	Child Health and Human Development Extramural Research	25,218	-
Health and Human Services, Department of	Pass-Through Riverside Res		NYO.11367.08.01.2019	93.865	Child Health and Human Development Extramural Research	4,827	-
Health and Human Services, Department of	Pass-Through The Children's		3201990721	93.865	Child Health and Human Development Extramural Research	33,564	-
Health and Human Services, Department of	Pass-Through The Children's		GRT-00000601	93.865	Child Health and Human Development Extramural Research	26,698	-
Health and Human Services, Department of	Pass-Through The Children's		GRT-00000762	93.865	Child Health and Human Development Extramural Research	8,005	-
Health and Human Services, Department of		y of Texas at Arlington (UTA)	2020GC0843	93.865	Child Health and Human Development Extramural Research	7,866	-
Health and Human Services, Department of		y of Texas Medical Branch at Galveston (UTMB)	19-83439-10	93.865	Child Health and Human Development Extramural Research	108,929	-
Health and Human Services, Department of		y of Texas Southwestern Medical Center	GMO 161107	93.865	Child Health and Human Development Extramural Research	9	-
Health and Human Services, Department of		y of Texas Southwestern Medical Center	GMO 161107	93.865	Child Health and Human Development Extramural Research	32,227	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through The Universit Pass-Through Tulane Univer	y of Texas Southwestern Medical Center	GMO 161107-PO 000000735D TUL-HSC-557476-19/20	93.865 93.865	Child Health and Human Development Extramural Research Child Health and Human Development Extramural Research	2,835	-

			Assistance Listin	g		Passed-Through
Cluster Title/Federal Grantor/Program	Type Pass-T	hrough Grantor Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures	
Health and Human Services, Department of	Pass-Through University of California - Irvine	2017-3508	93.865	Child Health and Human Development Extramural Research	1,291,548	-
Health and Human Services, Department of	Pass-Through University of California - Los Angeles	2000 G XC627	93.865	Child Health and Human Development Extramural Research	78,340	-
Health and Human Services, Department of	Pass-Through University of California-Davis, MMRR	C A19-0078-S002	93.865	Child Health and Human Development Extramural Research	7,537	-
Health and Human Services, Department of	Pass-Through University of Denver	SC37627-01-00	93.865	Child Health and Human Development Extramural Research	36,080	-
Health and Human Services, Department of	Pass-Through University of Florida, The	SUB00001724	93.865	Child Health and Human Development Extramural Research	111,936	-
Health and Human Services, Department of	Pass-Through University of Maryland, College Park	70933-Z0191201	93.865	Child Health and Human Development Extramural Research	111,485	-
Health and Human Services, Department of	Pass-Through University of Minnesota	P006823101	93.865	Child Health and Human Development Extramural Research	33,367	-
Health and Human Services, Department of	Pass-Through University of Missouri	C00064975-1	93.865	Child Health and Human Development Extramural Research	14,657	-
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel		93.865	Child Health and Human Development Extramural Research	(2,935)	-
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel		93.865	Child Health and Human Development Extramural Research	(3,884)	15,343
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel		93.865	Child Health and Human Development Extramural Research	344,506	-
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel		93.865	Child Health and Human Development Extramural Research	577,801	286,899
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel		93.865	Child Health and Human Development Extramural Research	41,433	-
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel		93.865	Child Health and Human Development Extramural Research	19,956	-
Health and Human Services, Department of	Pass-Through University of Washington	UWSC10068	93.865	Child Health and Human Development Extramural Research	20,334	-
Health and Human Services, Department of	Pass-Through Washington University in St. Louis	WU-21-197	93.865	Child Health and Human Development Extramural Research	72,952	-
Health and Human Services, Department of	Pass-Through Women and Infants Hospital	5001521	93.865	Child Health and Human Development Extramural Research	211,539	-
	D' (	1 521 4 6064027 01	02.966		\$ 34,072,979	\$ 2,764,031
Health and Human Services, Department of	Direct	1 F31 AG064837-01	93.866	Aging Research	\$ (4,734)	5 -
Health and Human Services, Department of	Direct	1 F31 AG067634-01	93.866	Aging Research	37,125	-
Health and Human Services, Department of	Direct	1 F31 AG067705-01	93.866	Aging Research	17,839	-
Health and Human Services, Department of	Direct	1 K08 AG071856 01	93.866	Aging Research	30,269	-
Health and Human Services, Department of	Direct	1 K23 AG066864-01-A1	93.866	Aging Research	76,930	-
Health and Human Services, Department of	Direct	1 K99 AG068309-01A1	93.866	Aging Research	22,051	-
Health and Human Services, Department of	Direct	1 R01 AG064957-01	93.866	Aging Research	629,231	-
Health and Human Services, Department of	Direct	1 R01 AG067506-02	93.866	Aging Research	166,191	-
Health and Human Services, Department of	Direct	1 R01 AG070897-01	93.866	Aging Research	93,658	-
Health and Human Services, Department of	Direct	1 R01 AG070951-01	93.866	Aging Research	11,987	-
Health and Human Services, Department of	Direct	1 R01 AG070953-01	93.866	Aging Research	10,360	-
Health and Human Services, Department of	Direct	1 R01 AG071071-01	93.866	Aging Research	4,237	-
Health and Human Services, Department of	Direct	1 R03 AG057838-02	93.866	Aging Research	32,325	-
Health and Human Services, Department of	Direct	1 R03 AG063222-02	93.866	Aging Research	110,697	-
Health and Human Services, Department of	Direct	1 R21 AG071232-01A1	93.866	Aging Research	13,730	-
Health and Human Services, Department of	Direct	1 R21 AG071796-01	93.866	Aging Research	14,411	-
Health and Human Services, Department of	Direct	1 R21 AG072009-01	93.866	Aging Research	11,683	-
Health and Human Services, Department of	Direct	1 R21AG069387 01	93.866	Aging Research	80,710	-
Health and Human Services, Department of	Direct	1 R24 AG066588-02	93.866	Aging Research	172,016	49,765
Health and Human Services, Department of	Direct	1 R56 AG061207-01	93.866	Aging Research	231,815	-
Health and Human Services, Department of	Direct	1 R56 AG062225-01	93.866	Aging Research	36,359	-
Health and Human Services, Department of	Direct	1 R56 AG065529-01A1	93.866	Aging Research	110,763	-
Health and Human Services, Department of	Direct	1 RF0 AG057540-01	93.866	Aging Research	590,036	66,377
Health and Human Services, Department of	Direct	1 RF1 AG051710-01	93.866	Aging Research	819,890	669,930
Health and Human Services, Department of	Direct	1 RF1 AG057928-01	93.866	Aging Research	447,558	-
Health and Human Services, Department of	Direct	1 RF1 AG059723-01	93.866	Aging Research	467,340	209,188
Health and Human Services, Department of	Direct	1 RF1 AG068410-01	93.866	Aging Research	286,065	-
Health and Human Services, Department of	Direct	1 T32 AG062403-01A1	93.866	Aging Research	248,816	-
Health and Human Services, Department of	Direct	2 P30 AG012846-27 2 E00 A C068517 0181	93.866	Aging Research	751,165	20,555
Health and Human Services, Department of	Direct	3 F99 AG068517-01S1	93.866	Aging Research	34,006	-
Health and Human Services, Department of	Direct	3 R01 AG054835-05S1	93.866	Aging Research	333,206	-
Health and Human Services, Department of	Direct	3 U01 AG022303-15S1 4 R00 AG062740 04	93.866	Aging Research	(15,908)	-
Health and Human Services, Department of	Direct	4 R00 AG062749-04 5 F31 AG060663 03	93.866	Aging Research	22,431	-
Health and Human Services, Department of	Direct	5 F31 AG060663-03	93.866	Aging Research	21,134	-
Health and Human Services, Department of	Direct	5 F31 AG064856-02	93.866	Aging Research	39,922	-
Health and Human Services, Department of	Direct	5 F31 AG067717-02	93.866	Aging Research	37,593	-
Health and Human Services, Department of	Direct	5 F32 AG059362-02	93.866	Aging Research	(164)	-
Health and Human Services, Department of	Direct	5 F32 AG064815-02	93.866	Aging Research	65,194 26.075	-
Health and Human Services, Department of	Direct	5 F99 AG68518-02	93.866	Aging Research	26,075	-
Health and Human Services, Department of	Direct	5 K01 AG050706-05	93.866	Aging Research	84,454	-
Health and Human Services, Department of	Direct	5 K01 AG054615-05	93.866	Aging Research	125,905	-
Health and Human Services, Department of	Direct	5 K01 AG056557-05 5 K01 AG057833 04	93.866 93.866	Aging Research	146,599 122,983	-
Health and Human Services, Department of Health and Human Services, Department of	Direct	5 K01 AG057833-04	93.866	Aging Research	122,983	-
· 1	Direct Direct	5 K01 AG059829-04 5 K01 AG061236-03	93.866	Aging Research	117,058	-
Health and Human Services, Department of				Aging Research		-
Health and Human Services, Department of	Direct	5 K01 AG057820-03S4	93.866	Aging Research	137,708	-
Health and Human Services, Department of	Direct	5 K01-AG062754-02	93.866	Aging Research	115,222	-
Health and Human Services, Department of	Direct	5 K01AG065420 02	93.866	Aging Research	137,486	-
	Direct	5 K01AG068361 02	93.866	Aging Research Aging Research	88,859 137,143	-
Health and Human Services, Department of						-
Health and Human Services, Department of	Direct	5 K07 AG050096-05	93.866			
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	5 K08 AG047252-05	93.866	Aging Research	37,411	-
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of	Direct Direct Direct	5 K08 AG047252-05 5 K08 AG049684-05	93.866 93.866	Aging Research Aging Research	37,411 112,235	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct	5 K08 AG047252-05	93.866	Aging Research	37,411	-

				Assistance Listi			Passed-Through
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures to	o Subrecipients
Health and Human Services, Department of	Direct		5 K23 AG059890 04	93.866	Aging Research	161,104	-
Health and Human Services, Department of	Direct		5 K24 AG050685-05	93.866	Aging Research	100,838	-
Health and Human Services, Department of	Direct		5 K76 AG064426-02	93.866 93.866	Aging Research	193,955	-
Health and Human Services, Department of Health and Human Services, Department of	Direct Direct		5 P01 AG051442-05 5 P30 AG012846-25	93.866	Aging Research Aging Research	1,470,519 12,157	997,081 9,252
Health and Human Services, Department of	Direct		5 P30 AG012840-25 5 P30 AG015281-24	93.866	Aging Research	640,815	357,242
Health and Human Services, Department of	Direct		5 P30 AG024824-15	93.866	Aging Research	6,419	668
Health and Human Services, Department of	Direct		5 P30 AG024824-15	93.866	Aging Research	1,526,266	18,115
Health and Human Services, Department of	Direct		5 P30 AG053760-05	93.866	Aging Research	2,199,021	139,806
Health and Human Services, Department of	Direct		5 P30 AG059300-04	93.866	Aging Research	597,581	201,153
Health and Human Services, Department of	Direct		5 P30 AG066582-02	93.866	Aging Research	507,276	5,389
Health and Human Services, Department of	Direct		5 R01 AG010026-27	93.866	Aging Research	358,067	40,819
Health and Human Services, Department of	Direct		5 R01 AG030593 13	93.866	Aging Research	424,915	-
Health and Human Services, Department of	Direct		5 R01 AG039434-07	93.866	Aging Research	279,916	-
Health and Human Services, Department of	Direct		5 R01 AG040213-10	93.866	Aging Research	1,101,278	180,025
Health and Human Services, Department of	Direct		5 R01 AG047178-05	93.866	Aging Research	6,630	1,265
Health and Human Services, Department of	Direct		5 R01 AG047203-05	93.866	Aging Research	297,403	-
Health and Human Services, Department of	Direct		5 R01 AG047932-05	93.866	Aging Research	214,403	6,346
Health and Human Services, Department of	Direct		5 R01 AG04871-05	93.866	Aging Research	285,548	-
Health and Human Services, Department of	Direct		5 R01 AG049624-05	93.866	Aging Research	(333)	-
Health and Human Services, Department of	Direct		5 R01 AG049716-04	93.866	Aging Research	322,607	151,662
Health and Human Services, Department of	Direct		5 R01 AG050509-05	93.866	Aging Research	73,548	10,319
Health and Human Services, Department of	Direct		5 R01 AG050523-05	93.866	Aging Research	233,142	-
Health and Human Services, Department of	Direct		5 R01 AG050676-05	93.866	Aging Research	550,555	304,038
Health and Human Services, Department of	Direct		5 R01 AG051142-04S1	93.866	Aging Research	74,374	-
Health and Human Services, Department of	Direct		5 R01 AG051142-07	93.866	Aging Research	761,841	13,836
Health and Human Services, Department of	Direct		5 R01 AG051439-05	93.866	Aging Research	(1,285)	-
Health and Human Services, Department of	Direct		5 R01 AG051649-05	93.866	Aging Research	178,026	-
Health and Human Services, Department of	Direct		5 R01 AG051827-05	93.866	Aging Research	613,913	18,304
Health and Human Services, Department of	Direct		5 R01 AG051849-05	93.866	Aging Research	241,649	-
Health and Human Services, Department of	Direct		5 R01 AG052934-05	93.866	Aging Research	294,268	-
Health and Human Services, Department of	Direct		5 R01 AG054371-05	93.866	Aging Research	(47,241)	-
Health and Human Services, Department of	Direct		5 R01 AG055406-04	93.866	Aging Research	331,512	50,666
Health and Human Services, Department of	Direct		5 R01 AG056407-04	93.866	Aging Research	367,652	81,930
Health and Human Services, Department of	Direct		5 R01 AG057510-04	93.866	Aging Research	729,609	-
Health and Human Services, Department of	Direct		5 R01 AG057704-03	93.866	Aging Research	295,630	38,262
Health and Human Services, Department of	Direct		5 R01 AG058599-03	93.866	Aging Research	218,286	30,521
Health and Human Services, Department of	Direct		5 R01 AG058717-03	93.866	Aging Research	322,527	-
Health and Human Services, Department of	Direct		5 R01 AG059583-04	93.866	Aging Research	380,022	-
Health and Human Services, Department of	Direct		5 R01 AG059733-04	93.866	Aging Research	529,351	41,416
Health and Human Services, Department of	Direct		5 R01 AG059743-04	93.866	Aging Research	428,960	84,329
Health and Human Services, Department of	Direct		5 R01 AG060167-03	93.866	Aging Research	199,292	107,861
Health and Human Services, Department of	Direct		5 R01 AG060936-03	93.866	Aging Research	229,962	-
Health and Human Services, Department of	Direct		5 R01 AG062447-02	93.866	Aging Research	312,894	34,140
Health and Human Services, Department of	Direct		5 R01 AG062477-03	93.866	Aging Research	646,564	465,213
Health and Human Services, Department of	Direct		5 R01 AG062582-02	93.866	Aging Research	562,909	-
Health and Human Services, Department of	Direct		5 R01 AG063200-03	93.866	Aging Research	406,323	13,700
Health and Human Services, Department of	Direct		5 R01 AG063371 03	93.866	Aging Research	377,179	87,054
Health and Human Services, Department of	Direct		5 R01 AG065246-02	93.866	Aging Research	360,094	-
Health and Human Services, Department of	Direct		5 R01 AG067592-02	93.866	Aging Research	458,489	-
Health and Human Services, Department of	Direct		5 R01 AG067753-02	93.866	Aging Research	348,928	-
Health and Human Services, Department of	Direct		5 R01 AG068074-02	93.866	Aging Research	140,471	-
Health and Human Services, Department of	Direct		5 R01 AG069016-2	93.866	Aging Research	322,145	149,723
Health and Human Services, Department of	Direct		5 R01 AG069148-02	93.866	Aging Research	271,355	-
Health and Human Services, Department of	Direct		5 R01AG028082-13	93.866	Aging Research	686,888	127
Health and Human Services, Department of	Direct		5 R01AG048934-05	93.866	Aging Research	390,517	
Health and Human Services, Department of	Direct		5 R01AG059823-02	93.866	Aging Research	70,080	35,785
Health and Human Services, Department of	Direct		5 R01-AG065319-02	93.866	Aging Research	815,985	-
Health and Human Services, Department of	Direct		5 R01AG068338-02	93.866	Aging Research	303,503	-
Health and Human Services, Department of	Direct		5 R03 AG056588-02	93.866	Aging Research	85,899	-
Health and Human Services, Department of	Direct		5 R03 AG060404-02	93.866	Aging Research	7,800	-
Health and Human Services, Department of	Direct		5 R03 AG067975-02	93.866	Aging Research	13,333	-
Health and Human Services, Department of	Direct		5 R21 AG053186-02	93.866	Aging Research	2,506	-
Health and Human Services, Department of	Direct		5 R21 AG056912-05	93.866	Aging Research	(1,937)	-
Health and Human Services, Department of	Direct		5 R21 AG058862-02	93.866	Aging Research	120,559	-
Health and Human Services, Department of	Direct		5 R21 AG059117-02	93.866	Aging Research	63,007	-
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Health and Human Services, Department of	Direct		5 R21 AG061839-02	93.866	Aging Research	88,142	
Health and Human Services, Department of	Direct		5 R21 AG062843-02	93.866	Aging Research	14,116	1,256
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Hahl and Landa Srivos, Deputator of hand Landa	Health and Human Services, Department of	Pass-Through Banner Heal	th	0435-02-61926	93.866	Aging Research	100,005	-
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Health and Human Services, Department of Health and Human Services, Department ofPass-Through New York UniversityF2894-0193.866Aging Research158,462Health and Human Services, Department of Health and Human Services, Department ofPass-Through New York University Grossman School of Medicine17.A1-00-006174-01 Proj 10823893.866Aging Research132,995-Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northern California Institute for Research & Education, Inc. (NCIRE)WEI2015-0893.866Aging Research13,425-Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60040682 UM93.866Aging Research85.56Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60040682 UM93.866Aging Research18,145-Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University6004082 UM93.866Aging Research12,212-Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60048330 UM93.866Aging Research12,212-Health and Human Services, Department of Pass-Through Northwestern University6004				123442	93.866		123,205	-
Health and Human Services, Department of Health and Human Services, Department ofPass-Through New York University Grossman School of Medicine17-A1-00-006174-01 Proj 10823893.866Aging Research132,995Health and Human Services, Department of Health and Human Services, Department ofPass-Through Northern California Institute for Research & Education, Inc. (NCIRE)STE2196-1693.866Aging Research37,720-Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University0040682 UM93.866Aging Research855-Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60040682 UM93.866Aging Research18,145-Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60040682 UM93.866Aging Research18,145-Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60040682 UM93.866Aging Research12,212-Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60048330 UM93.866Aging Research12,421- <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>158,462</td><td>-</td></td<>							158,462	-
Health and Human Services, Department of Health and Human Services, Department ofPass-Through Northern California Institute for Research & Education, Inc. (NCIRE)WEI2015-0893.866Aging Research13.425-Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60040682 UM93.866Aging Research155,741-Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60040682 UM93.866Aging Research885-Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60040832 UM93.866Aging Research124,212-Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60048330 UM93.866Aging Research124,212-Health and Human Services, Department of Pass-Through Northwestern University60048330 UM93.866Aging Research124,212-Health and Human Services, Department of Pass-Through Northwestern University60048330 UM93.866Aging Research126-	Health and Human Services, Department of			17-A1-00-006174-01 Proj 108238	93.866	Aging Research	132,995	-
Health and Human Services, Department of Health and Human Services, Department ofPass-Through Northeern California Institute for Research & Education, Inc. (NCIRE)WEI2015-0893.866Aging Research155,741-Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60040682 UM93.866Aging Research185,150-Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60048330 UM93.866Aging Research124,212-Health and Human Services, Department of Health and Human Services, Department of Pass-Through Northwestern University60048330 UM93.866Aging Research126-	Health and Human Services, Department of			STE2196-16			57,720	-
Health and Human Services, Department of Health and Human Services, Department ofPass-Through Northwestern University60040682 UM93.866 60040682 UMAging Research885Health and Human Services, Department of Health and Human Services, Department ofPass-Through Northwestern University60046830 UM93.866Aging Research124,212Health and Human Services, Department of Health and Human Services, Department ofPass-Through Northwestern University60048330 UM93.866Aging Research126	Health and Human Services, Department of	Pass-Through Northern Cal	lifornia Institute for Research & Education, Inc. (NCIRE)	WEI2015-08	93.866	Aging Research	13,425	-
Health and Human Services, Department of Health and Human Services, Department ofPass-Through Northwestern University60040682 UM93.866Aging Research18,145-Health and Human Services, Department of Health and Human Services, Department ofPass-Through Northwestern University60048330 UM93.866Aging Research124,212-Health and Human Services, Department of Health and Human Services, Department ofPass-Through Northwestern University60048330 UM93.866Aging Research156-								-
Health and Human Services, Department of Health and Human Services, Department ofPass-Through Northwestern University60048330 UM93.866Aging Research124,212Health and Human Services, Department ofPass-Through Northwestern University60048330 UM93.866Aging Research156				60040682 UM				-
Health and Human Services, Department ofPass-Through Northwestern University60048330 UM93.866Aging Research156								-
								-
Health and Human Services, Department of Pass-Through Oregon Health and Science University 1008640 UMI 93.866 Aging Research (2.659) -								-
	Health and Human Services, Department of	Pass-Through Oregon Heal	th and Science University	1008640_UMI	93.866	Aging Research	(2,659)	-

			Assistance Listi	ing	Passed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Federal Expenditures to Subrecipients
Health and Human Services, Department of	Pass-Through Oregon Health and Science University	1010251_UMI	93.866	Aging Research	(1,819) -
Health and Human Services, Department of	Pass-Through Oregon Health and Science University	1010251_UMI	93.866	Aging Research	204,881 -
Health and Human Services, Department of	Pass-Through Oregon Health and Science University	1010251_UMI	93.866	Aging Research	15,183 -
Health and Human Services, Department of	Pass-Through Oregon Health and Science University	1011170_UMI	93.866	Aging Research	(2,040) -
Health and Human Services, Department of	Pass-Through Oregon Health and Science University	1011170_UMI	93.866	Aging Research	47,027 -
Health and Human Services, Department of	Pass-Through Oregon Health and Science University	1013624_MICHIGAN	93.866	Aging Research	(2,496) -
Health and Human Services, Department of	Pass-Through Oregon Health and Science University	1013624_MICHIGAN	93.866	Aging Research	87,418 -
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through RAND Corporation Pass-Through Research Foundation of Mental Hygiene, Inc.	SCON-00000035 R01AG062578	93.866 93.866	Aging Research Aging Research	135,604 - 82,461 -
Health and Human Services, Department of	Pass-Through Syracuse University	30917-05467-S03	93.866	Aging Research	53,552 -
Health and Human Services, Department of	Pass-Through The President and Fellows of Harvard College aka Harvard Universit		93.866	Aging Research	31,618 -
Health and Human Services, Department of	Pass-Through The University of Texas at Austin	UTA15-001096	93.866	Aging Research	20,690 -
Health and Human Services, Department of	Pass-Through The University of Texas at Austin	UTA18-00522	93.866	Aging Research	15,601 -
Health and Human Services, Department of	Pass-Through Translational Genomics Research Institute (TGen)	SCHORK-19-04	93.866	Aging Research	2,707 -
Health and Human Services, Department of	Pass-Through Translational Genomics Research Institute (TGen)	SCHORK-19-04	93.866	Aging Research	28,963 -
Health and Human Services, Department of	Pass-Through University of Alabama at Birmingham (UAB)	000521075-SC001	93.866	Aging Research	47,599 -
Health and Human Services, Department of	Pass-Through University of California - Berkeley	00010174 PO#BB01285277	93.866	Aging Research	244,933 -
Health and Human Services, Department of	Pass-Through University of California - Berkeley	00010399 PO BB1404123	93.866	Aging Research	15,606 -
Health and Human Services, Department of	Pass-Through University of California - Irvine	2015-3301	93.866	Aging Research	121,569 -
Health and Human Services, Department of	Pass-Through University of California - Irvine	2018-3595	93.866	Aging Research	135,120 -
Health and Human Services, Department of	Pass-Through University of California - Los Angeles	1557 G WA554	93.866	Aging Research	20,329 -
Health and Human Services, Department of	Pass-Through University of California - San Francisco	11679sc	93.866	Aging Research	17,461 -
Health and Human Services, Department of	Pass-Through University of California- Riverside	S-001052	93.866	Aging Research	51,044 -
Health and Human Services, Department of	Pass-Through University of California-Santa Cruz	A20-0387-S002 P0727669	93.866	Aging Research	8,617 -
Health and Human Services, Department of	Pass-Through University of Florida, The	SUB00002437	93.866	Aging Research	31,126 -
Health and Human Services, Department of	Pass-Through University of Florida, The	UFDSP00011879	93.866	Aging Research	22,054 -
Health and Human Services, Department of	Pass-Through University of Maryland, College Park	96373-Z0380201	93.866	Aging Research	33,333 -
Health and Human Services, Department of	Pass-Through University of Massachusetts	21-015930-A 00	93.866	Aging Research	46,997 -
Health and Human Services, Department of	Pass-Through University of Massachusetts Medical School	OSP27336-P4	93.866	Aging Research	3,176 -
Health and Human Services, Department of	Pass-Through University of Minnesota	H004986802	93.866	Aging Research	137,477 -
Health and Human Services, Department of	Pass-Through University of Minnesota	P007424453 045446-871E	93.866 93.866	Aging Research	920 - 86,404 -
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through University of New Mexico Pass-Through University of Pittsburgh	(135310-5)	93.866	Aging Research Aging Research	928,932 1,295
Health and Human Services, Department of	Pass-Through University of Pittsburgh	AWD00003000 (135310-4)	93.866	Aging Research	451,649 -
Health and Human Services, Department of	Pass-Through University of Pittsburgh	CNVA00062075 (132999-1)	93.866	Aging Research	(6,655) -
Health and Human Services, Department of	Pass-Through University of Pittsburgh	CNVA00062075 (134778-1)	93.866	Aging Research	107,394 -
Health and Human Services, Department of	Pass-Through University of Southern California	105622532	93.866	Aging Research	175,023 -
Health and Human Services, Department of	Pass-Through University of Southern California	107774911 PO#50879038	93.866	Aging Research	35,131 -
Health and Human Services, Department of	Pass-Through University of Southern California	107936883	93.866	Aging Research	119,801 -
Health and Human Services, Department of	Pass-Through University of Southern California	124148138	93.866	Aging Research	43,774 -
Health and Human Services, Department of	Pass-Through University of Southern California	125402769	93.866	Aging Research	11,984 -
Health and Human Services, Department of	Pass-Through University of Southern California	126034847	93.866	Aging Research	8,096 -
Health and Human Services, Department of	Pass-Through University of Southern California	129629634	93.866	Aging Research	13,470 -
Health and Human Services, Department of	Pass-Through University of Southern California	133035917	93.866	Aging Research	14,516 -
Health and Human Services, Department of	Pass-Through University of Southern California	135352817	93.866	Aging Research	24,016 -
Health and Human Services, Department of	Pass-Through University of Southern California	137248398/ PO#10926353	93.866	Aging Research	54,233 -
Health and Human Services, Department of	Pass-Through University of Southern California	137888156	93.866	Aging Research	95,884 -
Health and Human Services, Department of	Pass-Through University of Southern California	140690236	93.866	Aging Research	9,188 -
Health and Human Services, Department of	Pass-Through University of Southern California	142679734	93.866	Aging Research	160,443 -
Health and Human Services, Department of	Pass-Through University of Southern California	68597182	93.866	Aging Research	62,807 -
Health and Human Services, Department of	Pass-Through University of Southern California	94683653	93.866	Aging Research	192,811 -
Health and Human Services, Department of	Pass-Through University of Southern Mississippi	USM-8006130-02	93.866	Aging Research	34,039 -
Health and Human Services, Department of	Pass-Through University of Washington	UWSC9900	93.866	Aging Research	22,285 -
Health and Human Services, Department of	Pass-Through University of Wisconsin	000000487	93.866	Aging Research	2,146 -
Health and Human Services, Department of	Pass-Through University of Wisconsin	000000783	93.866 93.866	Aging Research	31,989 - 90,844 -
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Vanderbilt University Medical Center Pass-Through Wake Forest Baptist Medical Center (WFBMC)	VUMC86383 101720-114751	93.866	Aging Research Aging Research	27,000 -
Health and Human Services, Department of	Pass-Through Washington University in St. Louis	WU-21-330/ PO 2940996K	93.866	Aging Research	54,153 -
Health and Human Services, Department of	Pass-Through Wayne State University	WSU17146	93.866	Aging Research	99,439 -
Health and Human Services, Department of	Pass-Through Wayne State University	WSU18065	93.866	Aging Research	185,524 -
Health and Human Services, Department of	Pass-Through Weill Cornell Medical College of Cornell University	190636-5	93.866	Aging Research	27,595 -
Health and Human Services, Department of	Pass-Through Yale University	GR105475 (CON-80001681)	93.866	Aging Research	20,125 -
Health and Human Services, Department of	Pass-Through Yale University	GR105746(CON-80001781)	93.866	Aging Research	117,362 -
	e ,				\$ 68,008,659 \$ 6,425,869
Health and Human Services, Department of	Direct	1 K08 EY032098 01	93.867	Vision Research	\$ 98,060 \$ -
Health and Human Services, Department of	Direct	2 R01 EY020823 06A1	93.867	Vision Research	(13,882) -
Health and Human Services, Department of	Direct	2 R01 EY023660 06A1	93.867	Vision Research	129,019 -
Health and Human Services, Department of	Direct	5 K08 EY031757 02	93.867	Vision Research	207,927 -
Health and Human Services, Department of	Direct	5 K12 EY022299-05	93.867	Vision Research	(407) -
Health and Human Services, Department of	Direct	5 K12 EY022299-09	93.867	Vision Research	442,297 -
Health and Human Services, Department of	Direct	5 K23 EY023596-05	93.867	Vision Research	12 -

			Assistance Listir			Passed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Through Gra		Number	Assistance Listing Program Title	Federal Expenditure	
Health and Human Services, Department of	Direct	5 K23 EY026985-05	93.867	Vision Research	259,994	
Health and Human Services, Department of	Direct	5 K23 EY027848-05	93.867	Vision Research	241,973	
Health and Human Services, Department of	Direct	5 K23EY027849 04	93.867	Vision Research	267,874	
Health and Human Services, Department of	Direct	5 P30 EY007003-35	93.867	Vision Research	585,764	
Health and Human Services, Department of	Direct Direct	5 R00 EY025732-05	93.867 93.867	Vision Research Vision Research	266,765	
Health and Human Services, Department of Health and Human Services, Department of	Direct	5 R00HL136695-05 5 R01 EY007060-29	93.867	Vision Research	345,135 493,858	
Health and Human Services, Department of	Direct	5 R01 EY008976-26	93.867	Vision Research	210,008	
Health and Human Services, Department of	Direct	5 R01 EY012021-23	93.867	Vision Research	382,186	
Health and Human Services, Department of	Direct	5 R01 EY01202125 5 R01 EY014126-17	93.867	Vision Research	372,563	
Health and Human Services, Department of	Direct	5 R01 EY018132-12	93.867	Vision Research	73,401	
Health and Human Services, Department of	Direct	5 R01 EY020895-08	93.867	Vision Research	74,482	
Health and Human Services, Department of	Direct	5 R01 EY026641-05	93.867	Vision Research	497,871	
Health and Human Services, Department of	Direct	5 R01 EY027310-04	93.867	Vision Research	341,637	
Health and Human Services, Department of	Direct	5 R01 EY029349-04	93.867	Vision Research	555,479	
Health and Human Services, Department of	Direct	5 R01 EY029675 03	93.867	Vision Research	378,468	
Health and Human Services, Department of	Direct	5 R01 EY030989 02	93.867	Vision Research	302,739	-
Health and Human Services, Department of	Direct	5 R01 EY031033 02	93.867	Vision Research	249,662	
Health and Human Services, Department of	Direct	5 R01 EY031961 02	93.867	Vision Research	225,468	3 -
Health and Human Services, Department of	Direct	5 R01EY020823-08	93.867	Vision Research	567,066	
Health and Human Services, Department of	Direct	5 R01EY031337 02	93.867	Vision Research	454,600	
Health and Human Services, Department of	Direct	5 R21 EY028997-02	93.867	Vision Research	106,659	
Health and Human Services, Department of	Direct	5 R21 EY029452-02	93.867	Vision Research	78,681	
Health and Human Services, Department of	Direct	5 R21 EY030363 02	93.867	Vision Research	171,889	
Health and Human Services, Department of	Direct	5-K08 -EY- 027458 - 04	93.867	Vision Research	226,070	
Health and Human Services, Department of	Direct	7 R01 EY022931-05	93.867	Vision Research	(205	
Health and Human Services, Department of	Direct	T32 EY013934	93.867	Vision Research	173,077	
Health and Human Services, Department of	Pass-Through Michigan State University	RC107343UM	93.867	Vision Research	(248	3) -
Health and Human Services, Department of	Pass-Through Newhaptics Corp.	Research Agreement	93.867	Vision Research	(12,634	4) -
Health and Human Services, Department of	Pass-Through Ohio State University, The	60072806	93.867	Vision Research	47,471	
Health and Human Services, Department of	Pass-Through Ohio State University, The	GR121139 / PO# SPC-1000004379	93.867	Vision Research	7,644	4 -
Health and Human Services, Department of	Pass-Through PhotoSonoX LLC	Subcontract Research	93.867	Vision Research	66,233	- 3
Health and Human Services, Department of	Pass-Through University of California - Irvine	2019-1212	93.867	Vision Research	55,741	ı -
Health and Human Services, Department of	Pass-Through University of Kansas	FY2019-038-M3	93.867	Vision Research	125,910	) -
Health and Human Services, Department of	Pass-Through Wayne State University	WSU17063	93.867	Vision Research	27,903	- 3
Health and Human Services, Department of	Pass-Through Zebra Biologics Inc.	41EY032011	93.867	Vision Research	34,707	7 -
					\$ 9,105,854	4 \$ 158,520
				Strengthening the Public Health System in US-affiliated Pac	ific	
Health and Human Services, Department of	Pass-Through University of California - San Francisco	12088sc	93.874	Islands (Non-PPHF)	\$ 20,013	3 \$ -
Health and Human Services, Department of	Direct	5 F31 LM012946-02	93.879	Medical Library Assistance	\$ 12,453	3 \$ -
Health and Human Services, Department of	Direct	5 K01 LM012528-03	93.879	Medical Library Assistance	32,125	5 -
Health and Human Services, Department of	Direct	5 K01LM012739 04	93.879	Medical Library Assistance	157,659	
Health and Human Services, Department of	Direct	5 R01 LM012907-02	93.879	Medical Library Assistance	144,650	21,250
Health and Human Services, Department of	Direct	5 R01 LM013325-03	93.879	Medical Library Assistance	150,930	) -
Health and Human Services, Department of	Direct	5 R01 LM12373 06	93.879	Medical Library Assistance	206,651	1 13,470
Health and Human Services, Department of	Pass-Through University of California-San Diego	118205890	93.879	Medical Library Assistance	81,905	5 -
Health and Human Services, Department of	Pass-Through Weill Cornell Medical College of Cornell University	202995	93.879	Medical Library Assistance	19,161	I -
					\$ 805,534	4 \$ 34,720
Health and Human Services, Department of	Pass-Through The University of Texas Health Science Center at Sa	Antonio 166107/166106	93.884	Primary Care Training and Enhancement	\$ (128	8)\$ -
Health and Human Services, Department of	Pass-Through University of California - Davis	A17-0284-S003	93.884	Primary Care Training and Enhancement	26,662	
					\$ 26,534	
Health and Human Services, Department of	Pass-Through Michigan Health and Hospital Association, (MHA)	1 U3REP200661-01-00	93.889	National Bioterrorism Hospital Preparedness Program	\$ 167,423	3 \$ -
Health and Human Services, Department of	Pass-Through Michigan Health and Hospital Association, (MHA)	Metro MHA PG	93.889	National Bioterrorism Hospital Preparedness Program	33,608	- 3
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De	rtment of Covid Funding	93.889	National Bioterrorism Hospital Preparedness Program	23,795	
		rtment of E20213714-00 BF	93.889	National Bioterrorism Hospital Preparedness Program	148,275	5 -
	Pass-Through Michigan, State of, Health and Human Services, De					
Health and Human Services, Department of			93.889	National Bioterrorism Hospital Preparedness Program	26,112	
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De					
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De	rtment of E20214946-00 CJ	93.889	Health Care and Public Health (HPH) Sector Information	26,112 \$ 399,213	3\$-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De			Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO)	26,112 \$ 399,212 \$ 10,255	3\$-
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Brigham and Women's Hospital	rtment of E20214946-00 CJ 124109	93.889 93.893	Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO) Cancer Prevention and Control Programs for State, Territor	26,112 \$ 399,213 ial	3 \$ - 9 \$ -
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De	rtment of E20214946-00 CJ 124109	93.889	Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO) Cancer Prevention and Control Programs for State, Territor and Tribal Organizations	26,112 \$ 399,212 \$ 10,255	3 \$ - 9 \$ -
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Brigham and Women's Hospital	rtment of E20214946-00 CJ 124109	93.889 93.893	Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO) Cancer Prevention and Control Programs for State, Territor and Tribal Organizations National Institutes of Health Acquired Immunodeficiency	26,112 \$ 399,212 ial \$ 10,259 \$ 5,922	3 \$ - 9 \$ - 2 \$ -
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Brigham and Women's Hospital	rtment of E20214946-00 CJ 124109	93.889 93.893	Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO) Cancer Prevention and Control Programs for State, Territor and Tribal Organizations National Institutes of Health Acquired Immunodeficiency Syndrome Research Loan Repayment Program	26,112 \$ 399,213 ial	3 \$ - 9 \$ - 2 \$ -
Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Brigham and Women's Hospital Pass-Through Michigan, State of, Health and Human Services, De	rtment of E20214946-00 CJ 124109 rtment of E20213824-002 N	93.889 93.893 93.898	Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO) Cancer Prevention and Control Programs for State, Territor and Tribal Organizations National Institutes of Health Acquired Immunodeficiency Syndrome Research Loan Repayment Program Cooperative Agreements to Support Comprehensive School	26,112 \$ 399,212 ial \$ 10,259 \$ 5,922	3 \$ - 9 \$ - 2 \$ -
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Brigham and Women's Hospital Pass-Through Michigan, State of, Health and Human Services, De Pass-Through University of Washington	rtment of E20214946-00 CJ 124109 rtment of E20213824-002 N UWSC12520	93.889 93.893 93.898 93.936	Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO) Cancer Prevention and Control Programs for State, Territor and Tribal Organizations National Institutes of Health Acquired Immunodeficiency Syndrome Research Loan Repayment Program Cooperative Agreements to Support Comprehensive School Health Programs to Prevent the Spread of HIV and Other		3 \$ - 9 \$ - 2 \$ - 0 \$ -
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Brigham and Women's Hospital Pass-Through Michigan, State of, Health and Human Services, De	rtment of E20214946-00 CJ 124109 rtment of E20213824-002 N	93.889 93.893 93.898	Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO) Cancer Prevention and Control Programs for State, Territor and Tribal Organizations National Institutes of Health Acquired Immunodeficiency Syndrome Research Loan Repayment Program Cooperative Agreements to Support Comprehensive School Health Programs to Prevent the Spread of HIV and Other Important Health Problems	26,112 \$ 399,212 ial \$ 10,259 \$ 5,922	3 \$ - 9 \$ - 2 \$ - 0 \$ -
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Brigham and Women's Hospital Pass-Through Michigan, State of, Health and Human Services, De Pass-Through University of Washington Direct	rtment of E20214946-00 CJ 124109 rtment of E20213824-002 N UWSC12520 5 F30 CA221011-03	93.889 93.893 93.898 93.936 93.938	Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO) Cancer Prevention and Control Programs for State, Territor and Tribal Organizations National Institutes of Health Acquired Immunodeficiency Syndrome Research Loan Repayment Program Cooperative Agreements to Support Comprehensive School Health Programs to Prevent the Spread of HIV and Other Important Health Problems HIV Demonstration, Research, Public and Professional		3 \$
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Brigham and Women's Hospital Pass-Through Michigan, State of, Health and Human Services, De Pass-Through University of Washington	rtment of E20214946-00 CJ 124109 rtment of E20213824-002 N UWSC12520	93.889 93.893 93.898 93.936	Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO) Cancer Prevention and Control Programs for State, Territor and Tribal Organizations National Institutes of Health Acquired Immunodeficiency Syndrome Research Loan Repayment Program Cooperative Agreements to Support Comprehensive School Health Programs to Prevent the Spread of HIV and Other Important Health Problems HIV Demonstration, Research, Public and Professional Education Projects		3 \$
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Brigham and Women's Hospital Pass-Through Michigan, State of, Health and Human Services, De Pass-Through University of Washington Direct Pass-Through Emory University	rtment of E20214946-00 CJ 124109 rtment of E20213824-002 N UWSC12520 5 F30 CA221011-03 A031305	93.889 93.893 93.898 93.936 93.938 93.941	Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO) Cancer Prevention and Control Programs for State, Territor and Tribal Organizations National Institutes of Health Acquired Immunodeficiency Syndrome Research Loan Repayment Program Cooperative Agreements to Support Comprehensive School Health Programs to Prevent the Spread of HIV and Other Important Health Problems HIV Demonstration, Research, Public and Professional Education Projects		3 S - 9 S - 2 S - 0 S - 5 S - 5 -
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Brigham and Women's Hospital Pass-Through Michigan, State of, Health and Human Services, De Pass-Through University of Washington Direct	rtment of E20214946-00 CJ 124109 rtment of E20213824-002 N UWSC12520 5 F30 CA221011-03	93.889 93.893 93.898 93.936 93.938	Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO) Cancer Prevention and Control Programs for State, Territor and Tribal Organizations National Institutes of Health Acquired Immunodeficiency Syndrome Research Loan Repayment Program Cooperative Agreements to Support Comprehensive School Health Programs to Prevent the Spread of HIV and Other Important Health Problems HIV Demonstration, Research, Public and Professional Education Projects		3 S - 9 S - 2 S - 0 S - 5 S - 5 -
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Michigan, State of, Health and Human Services, De Pass-Through Brigham and Women's Hospital Pass-Through Michigan, State of, Health and Human Services, De Pass-Through University of Washington Direct Pass-Through Emory University	rtment of E20214946-00 CJ 124109 rtment of E20213824-002 N UWSC12520 5 F30 CA221011-03 A031305	93.889 93.893 93.898 93.936 93.938 93.941	Health Care and Public Health (HPH) Sector Information Sharing and Analysis Organization (ISAO) Cancer Prevention and Control Programs for State, Territor and Tribal Organizations National Institutes of Health Acquired Immunodeficiency Syndrome Research Loan Repayment Program Cooperative Agreements to Support Comprehensive School Health Programs to Prevent the Spread of HIV and Other Important Health Problems HIV Demonstration, Research, Public and Professional Education Projects		3 \$

Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier	ssistance Listin Number	g Assistance Listing Program Title	Federal 1	Expenditures to S	sed-Thro Subrecipie
Iealth and Human Services, Department of	Pass-Through Emory University	T727372	93.941	HIV Demonstration, Research, Public and Professional Education Projects		(5)	
× 1				-	\$	119,344 \$	
ealth and Human Services, Department of	Pass-Through TeneoBio, Inc.	R43AR077336	93.946	Cooperative Agreements to Support State-Based Safe Motherhood and Infant Health Initiative Programs	\$	11,741 \$	
ealth and Human Services, Department of	Direct	4 D43 TW009310-05	93.989	International Research and Research Training	\$	(7,278) \$	
ealth and Human Services, Department of	Direct	5 D43 TW009883 08	93.989	International Research and Research Training	φ	156,922	61,9
ealth and Human Services, Department of		5 U2 RTW0101110-05	93.989	International Research and Research Training		115,477	76,0
	Direct Pass-Through Columbia University	3(GG009218)/G012910	93.989	International Research and Research Training		(2,253)	/6,0
lealth and Human Services, Department of			93.989				
ealth and Human Services, Department of ealth and Human Services, Department of	Pass-Through University of South Carolina Pass-Through University of Washington	19-3865/PO2000046598 UWSC9899	93.989 93.989	International Research and Research Training International Research and Research Training		28,921 51,859	
can and runan services, Department of	rass-rinough Oniversity of Washington	0 ( 30 / 6 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7	95.989	international Research and Research Training	\$	343,648 \$	138,0
alth and Human Services, Department of	Direct	1 R01 AI58543-01	93.RD		\$	72,148 \$	
ealth and Human Services, Department of	Direct	1 R21 AI163492-01	93.RD			9,236	
ealth and Human Services, Department of	Direct	19IPA1906094	93.RD			28,743	
ealth and Human Services, Department of	Direct	19IPA1911955	93.RD			80,080	
ealth and Human Services, Department of	Direct	20 IPA2008287	93.RD			34,135	
alth and Human Services, Department of	Direct	200-2010-33976	93.RD			350,339	
ealth and Human Services, Department of	Direct	200-2010-33976	93.RD			1	
ealth and Human Services, Department of	Direct	20IPAA2014113	93.RD			28,921	
alth and Human Services, Department of	Direct	211PA2113467	93.RD			9,209	
alth and Human Services, Department of	Direct	21IPA2110333	93.RD			3,190	
alth and Human Services, Department of	Direct	21IPA2111286	93.RD			21,992	
alth and Human Services, Department of	Direct	21IPA2111287	93.RD			10,166	
alth and Human Services, Department of	Direct	75D30119C05052	93.RD 93.RD			59,905	
ealth and Human Services, Department of	Direct	75D30119C05052	93.RD 93.RD			22,197	
	Direct	75D30119C05052 75D30121C11058	93.RD 93.RD			2,304	
alth and Human Services, Department of							
alth and Human Services, Department of	Direct	75F40120C00195	93.RD			128,189	
alth and Human Services, Department of	Direct	75FCMC18D0041	93.RD			372	
alth and Human Services, Department of	Direct	75FCMC18D0041	93.RD			925,746	
alth and Human Services, Department of	Direct	75FCMC18D0041	93.RD			2,915,043	
alth and Human Services, Department of	Direct	75N95019C00017	93.RD			(3,759)	
alth and Human Services, Department of	Direct	75N95019C00017	93.RD			237	
alth and Human Services, Department of	Direct	75N95019C00017	93.RD			5,265	
alth and Human Services, Department of	Direct	75N95019C00017	93.RD			363,596	
alth and Human Services, Department of	Direct	75N95019C00017	93.RD			360,283	
ealth and Human Services, Department of	Direct	75N95019C00017	93.RD			103,240	
ealth and Human Services, Department of	Direct	75N95019C00017	93.RD			113,136	
ealth and Human Services, Department of	Direct	HHSF223201510146C	93.RD			84,459	
alth and Human Services, Department of	Direct	HHSF223201510157C	93.RD			(1,217)	
alth and Human Services, Department of	Direct	HHSF223201810187C	93.RD			(3,189)	
alth and Human Services, Department of	Direct	HHSF223201810187C-CLIN0002	93.RD			110,559	
alth and Human Services, Department of	Direct	HHSN268201700004C	93.RD			(486)	
	Direct	HHSN268201700004C	93.RD			2,598,229	28
ealth and Human Services, Department of	Direct		93.RD 93.RD				28
ealth and Human Services, Department of		HHSN272201600049C				1,922,247	
ealth and Human Services, Department of	Direct	HHSP233201800021C-CLIN 1	93.RD			103,104	
ealth and Human Services, Department of	Direct	HHSP233201800021C-CLIN 2	93.RD			880,487	
ealth and Human Services, Department of	Direct	HHSP233201800021C-CLIN 3	93.RD			40,253	
alth and Human Services, Department of	Direct	HHSP233201800021C-CLIN 6	93.RD			35,297	
alth and Human Services, Department of	Direct	IPA Bohnert, Kipling	93.RD			3,392	
alth and Human Services, Department of	Direct	IPA Sanchez, Kristen	93.RD			3,289	
alth and Human Services, Department of	Direct	IPA Sanchez, Kristen	93.RD			7,728	
alth and Human Services, Department of	Direct	IPA-Kevin Fu	93.RD			108,870	
alth and Human Services, Department of	Direct	IPIPA20OS256664	93.RD			23,653	
alth and Human Services, Department of	Pass-Through Abt Associates, Inc.	44098 / AG-3198-C-14-0017	93.RD			4,190	
alth and Human Services, Department of	Pass-Through Abt Associates, Inc.	50803	93.RD			25,386	
lth and Human Services, Department of	Pass-Through Abt Associates, Inc.	Subagreement No. 50679	93.RD			109,542	
Ith and Human Services, Department of	Pass-Through Adrian Public Schools	Head Start Community Needs Ass	93.RD			5,539	
Ith and Human Services, Department of	Pass-Through Altarum Institute	SC-20-011	93.RD			79,893	
Ith and Human Services, Department of	Pass-Through American Indian Health and Family Services of SE Michigan, Inc (AIHFS)	RA Eff.07/31/19	93.RD			64,525	
Ith and Human Services, Department of	Pass-Through Arbor Research Collaborative For Health	75FCMC18D0016	93.RD			385,072	
Ith and Human Services, Department of	Pass-Through Arbor Research Collaborative For Health	75FCMC18D0016/Task 75FCMC19F00	93.RD			(9,845)	
lth and Human Services, Department of	Pass-Through Arbor Research Collaborative For Health	Second Amendment	93.RD 93.RD				
						108,067	
alth and Human Services, Department of	Pass-Through Area Agency on Aging 1 B	Award Letter	93.RD			20,382	
alth and Human Services, Department of	Pass-Through Area Agency on Aging 1 B	Exhibit A	93.RD			53,226	
alth and Human Services, Department of	Pass-Through Argonne National Laboratory	1F-60255	93.RD			139,238	
alth and Human Services, Department of	Pass-Through ATGC, Inc	Subcontract	93.RD			119,628	
alth and Human Services, Department of	Pass-Through BlueWillow Biologics, Inc.	Research Agreement	93.RD			78,204	
alth and Human Services, Department of	Pass-Through BlueWillow Biologics, Inc.	Roundtable Research Agreement	93.RD			21,666	
alth and Human Services, Department of	Pass-Through Case Western Reserve University	RES513359	93.RD			222,213	
alth and Human Services, Department of	Pass-Through Columbia University	24(GG015997-01)	93.RD			58	

		Α	ssistance Listing		Passed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor	Award Identifier		ting Program Title Federal Expenditure	
Health and Human Services, Department of	Pass-Through COPD Foundation, Inc	FDP CR Sub agreement	93.RD	(17,392	
Health and Human Services, Department of	Pass-Through Courage Therapeutics, Inc.	Research Agreement	93.RD	94,824	
Health and Human Services, Department of	Pass-Through Curi Bio	Research Agreement	93.RD	30,325	
Health and Human Services, Department of	Pass-Through Duke University	A030692	93.RD	11,292	
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Flint, City of Pass-Through GreenMark Biomedical, Inc.	Research Agreement Ph II Research Agreement	93.RD 93.RD	(164 181,168	
Health and Human Services, Department of	Pass-Through Health Research and Educational Trust	87707	93.RD 93.RD	181,100	
Health and Human Services, Department of	Pass-Through Health Research and Educational Trust	87725	93.RD	51,889	
Health and Human Services, Department of	Pass-Through Hennepin Healthcare Research Institute (HHRI)	75R60220C00011	93.RD	35,054	
Health and Human Services, Department of	Pass-Through Hennepin Healthcare Research Institute (HHRI)	HHSH250201500009C	93.RD	8,364	
Health and Human Services, Department of	Pass-Through ICF Incorporated, LLC	19JGSK0022	93.RD	209,335	
Health and Human Services, Department of	Pass-Through InvivoSciences Inc.	Research Collaboration	93.RD	60,485	
Health and Human Services, Department of	Pass-Through Kaiser Permanente Northern California	RNG211062-UMICH-01	93.RD	7,988	
Health and Human Services, Department of	Pass-Through Kaiser Permanente Research Foundation Institute	RNG211064-UMICH-01	93.RD	7,988	
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Leidos Biomedical Research, Inc. Pass-Through Leidos Biomedical Research, Inc.	15X118 19X025Q/Task HHSN261000062	93.RD 93.RD	45,603 233,160	
Health and Human Services, Department of	Pass-Through Lewin Group	01.05645.010	93.RD	255,100	
Health and Human Services, Department of	Pass-Through Lewin Group	01.05645.010	93.RD	509,837	
Health and Human Services, Department of	Pass-Through Massachusetts General Hospital	236620	93.RD	184,210	
Health and Human Services, Department of	Pass-Through Materna Medical, Inc.	096987	93.RD	24,097	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Beecher	93.RD	93,895	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Bishop Elementary School	93.RD	78,658	3 -
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Flint Network	93.RD	454,476	5 -
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD	(314	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD	(67)	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD	(1,125	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD	(81	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD	2,645	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement Grant Agreement	93.RD 93.RD	3,363 53,254	
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan Primary Care Association Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD 93.RD	40,182	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD	50,229	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD	35,117	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD	127,985	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD	31,298	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD	28,435	5 -
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD	24,222	- 2
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Grant Agreement	93.RD	47,002	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	International Academy of Flint	93.RD	126,270	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Lincoln High School	93.RD	145,741	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Lincoln Middle School	93.RD	104,865	
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Michigan Primary Care Association Pass-Through Michigan Primary Care Association	Scarlett Ypsilanti High School	93.RD 93.RD	95,569 157,797	
Health and Human Services, Department of	Pass-Through Michigan Primary Care Association	Ypsilanti Middle School	93.RD	122,451	
Health and Human Services, Department of	Pass-Through Michigan Public Health Institute	Q-30212-117-504100	93.RD	37,102	
Health and Human Services, Department of	Pass-Through Michigan Public Health Institute	Q-30212-117-501100 Q-30212-125-504200	93.RD	23,180	
Health and Human Services, Department of	Pass-Through Michigan, State of, Health and Human Services, Department of	E20180568-001	93.RD		- ) -
Health and Human Services, Department of	Pass-Through Mitovation, Inc.	Agreement	93.RD	157,185	5 -
Health and Human Services, Department of	Pass-Through New England Research Institutes, Inc. dba HealthCore	PROCUREMENT SERVICES AGREEN	93.RD	65,412	- 2
Health and Human Services, Department of	Pass-Through New England Research Institutes, Inc. dba HealthCore	PROCUREMENT SERVICES AGREEN	93.RD	23,991	
Health and Human Services, Department of	Pass-Through New England Research Institutes, Inc. dba HealthCore	Service Agreement	93.RD	44,072	
Health and Human Services, Department of	Pass-Through Northwestern University	SP0033779 60044358 UMHHSN27220	93.RD	18,787	
Health and Human Services, Department of	Pass-Through Open Lattice, Inc.	Roundtable Research Agreement	93.RD	14,955	
Health and Human Services, Department of	Pass-Through Prevent Child Abuse America	Agreement	93.RD	29,840	
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through Purchaser Business Group on Health (PBGH)	Consulting Services Agreement 15-312-0217571-66096L	93.RD 93.RD	88,21: 888,104	
Health and Human Services, Department of	Pass-Through Research Triangle Institute (dba RTI Health Solutions) Pass-Through Research Triangle Institute (dba RTI Health Solutions)	21-312-0214643-65091L	93.RD	120,668	
Health and Human Services, Department of	Pass-Through RTI International	7-312-0217571-66063L	93.RD	280,969	
Health and Human Services, Department of	Pass-Through Rush University	19022804-Sub01	93.RD	51,184	
Health and Human Services, Department of	Pass-Through Rush University Medical Center	17061501-Sub02	93.RD	3,130	
Health and Human Services, Department of	Pass-Through SignaBlok, Inc.	1R43AR078110-01	93.RD	32,068	3 -
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	1120104050-7936391	93.RD	48,833	
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112092060 7875929	93.RD	(2	
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112092070-7931297	93.RD	20,751	
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112103021-7850387	93.RD	79,491	
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112103031-7887542	93.RD	130,530	
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112104020-7793820	93.RD	(589	
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital Pass-Through St. Jude Children's Research Hospital	112104030-7848353 112104040-7889272	93.RD 93.RD	(349 215,358	
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112104040-7889272 112107010-7853514	93.RD 93.RD	56,498	
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112107015-7854642	93.RD	18,986	
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112107025-7888943	93.RD	40,534	
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		Assist	tance Listing	r		P	ssed-Through
Cluster Title/Federal Grantor/Program	Type Pass-Through Grantor		Number	Assistance Listing Program Title	Federal	Expenditures to	
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112107035-7953202	93.RD			34,522	-
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital	112336015-7930825	93.RD			191,625	25,571
Health and Human Services, Department of	Pass-Through St. Jude Children's Research Hospital		93.RD			(271)	-
Health and Human Services, Department of	Pass-Through State University of New York (SUNY)		93.RD			76,721	-
Health and Human Services, Department of	Pass-Through State University of New York (SUNY)		93.RD			3,168	-
Health and Human Services, Department of	Pass-Through The Children's Hospital of Philadelphia		93.RD			7,754	-
Health and Human Services, Department of	Pass-Through The Emmes Corporation		93.RD			300	-
Health and Human Services, Department of	Pass-Through The Icahn School of Medicine at Mount Sinai (ISMMS)		93.RD			50,217	-
Health and Human Services, Department of	Pass-Through The Icahn School of Medicine at Mount Sinai (ISMMS)		93.RD			153,270	-
Health and Human Services, Department of	Pass-Through The Icahn School of Medicine at Mount Sinai (ISMMS)		93.RD			623,174	-
Health and Human Services, Department of	Pass-Through The Icahn School of Medicine at Mount Sinai (ISMMS)	· · · · · · · · · · · · · · · · · · ·	93.RD 93.RD			1,699	-
Health and Human Services, Department of	Pass-Through The Icahn School of Medicine at Mount Sinai (ISMMS)					131,125	-
Health and Human Services, Department of Health and Human Services, Department of	Pass-Through The Jackson Laboratory Pass-Through The University of Texas Health Science Center at Tyler		93.RD 93.RD			198,592 9,648	-
Health and Human Services, Department of	Pass-Through United Automobile Workers		93.RD 93.RD			10,488	-
Health and Human Services, Department of	Pass-Through United Automobile Workers		93.RD 93.RD			142,973	-
Health and Human Services, Department of	Pass-Through University at Buffalo		93.RD			7,729	-
Health and Human Services, Department of	Pass-Through University Hospitals/Rainbow Babies and Children's Hospital		93.RD			252,941	
Health and Human Services, Department of	Pass-Through University of California-Santa Cruz		93.RD			89,489	
Health and Human Services, Department of	Pass-Through University of New Mexico-Health Sciences Cntr		93.RD			71,061	
Health and Human Services, Department of	Pass-Through University of North Carolina at Chapel Hill		93.RD			156,638	
Health and Human Services, Department of	Pass-Through University of Pennsylvania		93.RD			9,587	
Health and Human Services, Department of	Pass-Through University of Pennsylvania		93.RD			73,510	_
Health and Human Services, Department of	Pass-Through University of Pittsburgh		93.RD			4,408,067	-
Health and Human Services, Department of	Pass-Through University of Rochester		93.RD			20,003	
Health and Human Services, Department of	Pass-Through University of Rochester		93.RD			38,732	
Health and Human Services, Department of	Pass-Through University of Southern California		93.RD			51,347	-
Health and Human Services, Department of	Pass-Through University of Wisconsin		93.RD			252,551	-
Health and Human Services, Department of	Pass-Through Westat, Inc.		93.RD			126,054	
					\$	26,373,706 \$	528,949
		Total Health and Human Services, Department of	of		\$	658,902,727 \$	58,733,402
Corporation for National and Community Service	Pass-Through Northeast Michigan Community Service Agency, Inc (NEMCSA)		94.021	Volunteer Generation Fund	\$	16,705 \$	-
Corporation for National and Community Service	Pass-Through Arizona State University		94.RD		\$	2,975 \$	-
		Total Corporation for National and Community S	Service		\$	19,680 \$	-
		2 PD 00000000000000000000000000000000000	0.000		¢		
Social Security Administration	Direct		96.007	Social Security Research and Demonstration	\$	(2,256) \$	-
Social Security Administration	Direct		96.007	Social Security Research and Demonstration		343,844	283,517
Social Security Administration	Direct		96.007	Social Security Research and Demonstration		865,420	519,519
Social Security Administration	Direct		96.007	Social Security Research and Demonstration	\$	829,634 2,036,642 \$	349,517.00 1,152,553
		Total Social Security Administration			¢	2,030,042 3	1,152,555
Homeland Security, Department of	Pass-Through University of Arizona	559909	97.044	Assistance to Firefighters Grant	\$	80,849 \$	-
Homeland Security, Department of	Pass-Through University of Arizona		97.044	Assistance to Firefighters Grant		6,494	-
57 X				5	\$	87,343 \$	-
				Evaluation and Demonstration of Technologies Related to			
Homeland Security, Department of	Direct	15DNARI00015-05-00	97.077	Countering Weapons of Mass Destruction	\$	305,704 \$	-
27 A				Evaluation and Demonstration of Technologies Related to			
Homeland Security, Department of	Direct	16DNARI00022-05-02	97.077	Countering Weapons of Mass Destruction		397,415	-
				Evaluation and Demonstration of Technologies Related to			
Homeland Security, Department of	Pass-Through Georgia Technology Research Corporation	AWD-100703-G1 9	97.077	Countering Weapons of Mass Destruction		5,817	-
					\$	708,936 \$	-
Homeland Security, Department of	Pass-Through Radiation Monitoring Devices, Inc.	C19-14 9	97.RD		\$	237,405 \$	-
		Total Homeland Security, Department of			\$	1,033,684 \$	-
			00.001		¢		
United States Agency for International Development	Pass-Through Georgia Institute of Technology		98.001	USAID Foreign Assistance for Programs Overseas	\$	262,301 \$	-
United States Agency for International Development	Pass-Through National Academy of Sciences, Engineering and Medicine		98.001	USAID Foreign Assistance for Programs Overseas		26,819	-
United States Agency for International Development	Pass-Through University of California - Davis		98.001	USAID Foreign Assistance for Programs Overseas		(6,633)	-
United States Agency for International Development	Pass-Through University of California - Davis		98.001	USAID Foreign Assistance for Programs Overseas		114,027	-
United States Agency for International Development	Pass-Through VisionSpring, Inc.	7200AA19FA00019	98.001	USAID Foreign Assistance for Programs Overseas	¢	153,368 549,882 \$	<u> </u>
United States A annual for International Development	Pass-Through Georgia Institute of Technology	RH089-S1	98.RD		<u>\$</u> \$	(34,485) \$	
United States Agency for International Development	Fass-Through Georgia Institute of Technology	Total United States Agency for International Dev			\$	515,397 \$	
		Total Onlied States Agency for International Dev	weiopment		\$	515,597 3	
Consumer Financial Protection Bureau	Direct	IPA Couper, Mick	99.RD		\$	3,613 \$	-
		Total Consumer Financial Protection Bureau			\$	3,613 \$	-
Director of National Intelligence, Office of the	Direct		99.RD		\$	849,649 \$	214,930
Director of National Intelligence, Office of the	Pass-Through SRI International		99.RD			110,516	-
Director of National Intelligence, Office of the	Pass-Through Stealth Software Technologies, Inc.		99.RD			(4,344)	-
Director of National Intelligence, Office of the	Pass-Through University of Southern California		99.RD			55,761	-
		Total Director of National Intelligence, Office of	f the		\$	1,011,582 \$	214,930
							=

Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Assistance Listing Number	Assistance Listing Program Title	Federal	Pas Expenditures to S	sed-Throug Subrecipient
Millennium Challenge Corporation	Direct		95332420C0056	99.RD		\$	330,906 \$	-
			Total Millennium Challenge Corporation			\$	330,906 \$	-
resident, Executive Office of the	Pass-Through Lockheed Martin		4104351814	99.RD		\$	100,249 \$	-
President, Executive Office of the	Pass-Through Washtenaw, Cou		G15SM0003A/PO 20200346	99.RD			31,127	-
President, Executive Office of the	Pass-Through Washtenaw, Cou	nty of	G20SM0003A PO20210562 Total President, Executive Office of the	99.RD		\$	32,107 163,483 \$	-
United States Botanic Garden	Pass-Through American Public	Gardens Association (APGA)	Award	99.RD		\$	20,095 \$	-
			Total United States Botanic Garden			\$	20,095 \$	-
			Total research and development cluster			\$	968,683,824 \$	93,818,600
OTHER PROGRAMS					COVID-19-Coronavirus Emergency Supplemental Funding			
Justice, Department of	Pass-Through Michigan, State	of, State Police	CESF-0266-2020	16.034	Program	\$	53,295 \$	-
			Total Justice, Department of			\$	53,295 \$	-
Freasury, Department of the		and Hospital Association, (MHA)	220000	21.019	COVID-19-Coronavirus Relief Fund	\$	35,547 \$	-
Freasury, Department of the		and Hospital Association, (MHA)	Cares Act Funds	21.019	COVID-19-Coronavirus Relief Fund		105,189	-
Freasury, Department of the	Pass-Through Michigan Primar		LT0040 AND SLT0247	21.019	COVID-19-Coronavirus Relief Fund		18,984	-
Treasury, Department of the	Pass-Through Michigan Public		SLT0040	21.019	COVID-19-Coronavirus Relief Fund		375,097	-
Treasury, Department of the	Pass-Through Michigan, State		Child Care Relief	21.019	COVID-19-Coronavirus Relief Fund		90,236	-
Treasury, Department of the	Pass-Through Michigan, State		COVID FUNDS	21.019	COVID-19-Coronavirus Relief Fund		276,922	-
reasury, Department of the	Pass-Through Michigan, State		Relief Fund Payment	21.019	COVID-19-Coronavirus Relief Fund		49,310	-
Freasury, Department of the		of, Environment, Great Lakes, and Energy, Department of	2020-7511	21.019	COVID-19-Coronavirus Relief Fund		287,675	-
Freasury, Department of the		of, Environment, Great Lakes, and Energy, Department of	2020-7513	21.019	COVID-19-Coronavirus Relief Fund		167,922	-
Freasury, Department of the		of, Health and Human Services, Department of	E20204571-00 CX	21.019	COVID-19-Coronavirus Relief Fund		30,709	-
Freasury, Department of the		of, Technology, Management & Budget, Department of	CARES ACT - FLINT	21.019	COVID-19-Coronavirus Relief Fund		2,646,800	-
Freasury, Department of the		of, Technology, Management & Budget, Department of	Federal Relief Funds	21.019	COVID-19-Coronavirus Relief Fund		2,932,600	-
Treasury, Department of the		of, Technology, Management & Budget, Department of	State Appropriation-CARES	21.019	COVID-19-Coronavirus Relief Fund		36,084,600	-
Freasury, Department of the	Pass-Through Public Health Ins	titute	PPE Award	21.019	COVID-19-Coronavirus Relief Fund		2,359	-
			Total Treasury, Department of the			\$	43,103,950 \$	-
Federal Communications Commission	Direct		Funding Commitment #0007	32.006	COVID-19 Telehealth Program	\$	349,725 \$	-
Federal Communications Commission	Direct		Metro FCC PG Total Federal Communications Commission	32.006	COVID-19 Telehealth Program	\$	210,741 560,466 \$	-
					6 E B.			
Energy, Department of		of, Environment, Great Lakes, and Energy, Department of	MEO-19-039	81.041	State Energy Program	\$	143,002 \$	-
Energy, Department of	Pass-Through Michigan, State	f, Environment, Great Lakes, and Energy, Department of	OCWPA-21-007 Total Energy, Department of	81.041	State Energy Program	\$	7,227	4,594
Education, Department of	Pass-Through Michigan Virtual	University	Subcontract	84.425c	COVID-19-Education Stabilization Fund	¢	196,644 \$	
Education, Department of	Direct	University	P425E203180-20B	84.425e	COVID-19-Education Stabilization Fund	\$	18,972,027 \$	-
Education, Department of	Direct		P425E203180-20B	84.425e	COVID-19-Education Stabilization Fund	¢	4,221,266	-
Education, Department of	Direct		P425E205304-20B	84.425e	COVID-19-Education Stabilization Fund		2,954,924	-
Education, Department of	Direct		r423E203304-20B		COVID-17-Education Stabilization Fund	\$	26,148,217 \$	-
Education, Department of	Direct		P425F202099	84.425f	COVID-19-Education Stabilization Fund	\$	8,249,164 \$	-
Education, Department of	Direct		P425F202824	84.425f	COVID-19-Education Stabilization Fund		40,367,268	-
Education, Department of	Direct		P425F203504	84.425f	COVID-19-Education Stabilization Fund		9,522,655	-
						\$	58,139,087 \$	-
Education, Department of	Direct		P425M200548	84.425m	COVID-19-Education Stabilization Fund	\$	345,250 \$	-
Education, Department of	Direct		P425M200616	84.425m	COVID-19-Education Stabilization Fund		359,599	-
						\$	704,849 \$	-
			Total Education, Department of			\$	85,188,797 \$	-
Health and Human Services, Department of		of, Health and Human Services, Department of	E20202763-Project P	93.268	Immunization Cooperative Agreements	\$	1,906 \$	-
Health and Human Services, Department of	Pass-Through Michigan, State	f, Health and Human Services, Department of	E20213813-001 Q	93.268	Immunization Cooperative Agreements	\$	18,829 20,735 \$	-
Health and Human Services, Department of	Direct		CARES ACT FUNDS	02.408	COVID-19-Provider Relief Fund and American Rescue Plan	¢	45 512 (70 8	
nearth and Human Services, Department of	Direct		CARES ACT FUNDS	93.498	(ARP) Rural Distribution COVID-19-Provider Relief Fund and American Rescue Plan	\$	45,512,679 \$	-
Health and Human Services, Department of	Direct		Deposit of funds from Sponsor	93.498	(ARP) Rural Distribution COVID-19-Provider Relief Fund and American Rescue Plan		71,361,757	-
Health and Human Services, Department of	Direct		Metro PRF PG	93.498	(ARP) Rural Distribution		17,812,732	-
Health and Human Services, Department of	Direct		WMRO PRF PG	93.498	COVID-19-Provider Relief Fund and American Rescue Plan (ARP) Rural Distribution		82,870	-
					COVID-19-Provider Relief Fund and American Rescue Plan			
Health and Human Services, Department of	Pass-Through Michigan, State	of, Health and Human Services, Department of	23-0046	93.498	(ARP) Rural Distribution COVID-19-Provider Relief Fund and American Rescue Plan		1,413,349	-
		of, Health and Human Services, Department of			(ARP) Rural Distribution			

				Assistance Listi	ng	Passed-Throu		
Cluster Title/Federal Grantor/Program	Туре	Pass-Through Grantor	Award Identifier	Number	Assistance Listing Program Title	Feder	al Expenditures to Sub	orecipient
		*				\$	136,295,743 \$	
					Grants to Provide Outpatient Early Intervention Services with			
Iealth and Human Services, Department of	Direct		6 H76HA00182-25-01	93.918	Respect to HIV Disease	\$	567,754 \$	-
					Grants to Provide Outpatient Early Intervention Services with			
lealth and Human Services, Department of	Direct		H7CHA373020101	93.918	Respect to HIV Disease		62,003	-
						\$	629,757 \$	-
Health and Human Services, Department of	Pass-Through Michigan St	ate University	PO557418	93.994	Maternal and Child Health Services Block Grant to the States	\$	20,229 \$	-
Health and Human Services, Department of	Pass-Through Michigan, S	tate of, Health and Human Services, Department of	E20203778-00 Proj CN	93.994	Maternal and Child Health Services Block Grant to the States		45,599	-
Health and Human Services, Department of	Pass-Through Michigan, S	tate of, Health and Human Services, Department of	E20213689-00 BS	93.994	Maternal and Child Health Services Block Grant to the States		119,229	-
Health and Human Services, Department of	Pass-Through Michigan, S	tate of, Health and Human Services, Department of	E20213801-00 T	93.994	Maternal and Child Health Services Block Grant to the States		12,446	-
Health and Human Services, Department of	Pass-Through Michigan, S	tate of, Health and Human Services, Department of	MA19000000992	93.994	Maternal and Child Health Services Block Grant to the States		6,971	-
Health and Human Services, Department of	Pass-Through Michigan, S	tate of, Health and Human Services, Department of	MA-491-19000000992	93.994	Maternal and Child Health Services Block Grant to the States		7,037	-
						\$	211,511 \$	-
			Total Health and Human Services, Dep	partment of		\$	137,157,746 \$	-
Corporation for National and Community Service	Pass-Through National Co	llege Advising Corps	18EDHNC001	94.006	AmeriCorps	\$	338,217 \$	-
orporation for National and Community Service	Pass-Through Public Allie	5	18EDHWI0010008	94.006	AmeriCorps		(312,443)	-
orporation for National and Community Service	Pass-Through Public Allie	5	OP022-94.006-17-PADT	94.006	AmeriCorps		(213,992)	-
orporation for National and Community Service	Pass-Through Public Allie	5	OP022-94.006-18-PADT-SC	94.006	AmeriCorps		(5,733)	-
Corporation for National and Community Service	Pass-Through Public Allie	5	OP022-94.006-19-PADT - SC	94.006	AmeriCorps		3,000	-
Corporation for National and Community Service	Pass-Through Public Allie	5	OP022-94.006-20-PADT	94.006	AmeriCorps		77,922	-
	-		Total Corporation for National and Co	mmunity Service	-	\$	(113,029) \$	-
			Total other programs			\$	266,101,454 \$	4,594

Total federal expenditures

\$ 1,683,642,631 \$ 93,829,242

## 1. Summary of Significant Accounting Policies

The accompanying Schedule of Expenditures of Federal Awards (the "SEFA") includes all federal grant transaction activity of the University of Michigan (the "University") recorded on the accrual basis of accounting unless otherwise directed by the terms and conditions of the underlying awards. The information in the SEFA is presented in accordance with Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards* (the "Uniform Guidance"). As the SEFA presents only the federal award activity of the University, it is not intended to and does not present the net position, changes in net position and cash flows of the University.

Negative amounts presented in the SEFA represent adjustments, in the normal course of business, to expenditures reported in prior years. Complete Assistance Listing numbers and pass-through numbers are provided on the SEFA when available.

# 2. Indirect Costs

The University applies its predetermined approved facilities and administrative rate when charging indirect costs to federal awards rather than the 10 percent de minimus cost rate as described in Section 200.414 of the Uniform Guidance. The indirect cost rates approved by the University's cognizant agency, the Department of Health and Human Services, for organized research, instruction and other sponsored activities through June 30, 2024 are as follows:

	July 1, 2020 –
	June 30, 2024
On-campus organized research	56%
On-campus instruction	54%
On-campus sponsored activities	29%
Off-campus all programs	26%

## 3. University-Administered Federal Loan Programs

The federal loan programs listed below are administered directly by the University and outstanding balances related to these programs are included in the University's financial statements. The amount of loans outstanding at the beginning of the year, loans made during the year and the administrative cost allowance are included in the SEFA. The balance of loans outstanding at June 30, 2021 consists of:

	Assistance Listing <u>Number</u>	Outstanding Balance at June 30, 2021
Department of Education, Federal Perkins Program	84.038	\$ 32,388,694
Department of Health and Human Services: Nursing Faculty Loan Program	93.264	4,307,906
Health Professions Loan Program – Medicine/Primary Care Health Professions Loan Program – Pharmacy Health Professions Loan Program – Dentistry	93.342 93.342 93.342	1,132,321 1,203,111 8,430,524 10,765,956
Nursing Student Loan – Baccalaureate Nursing Student Loan – Graduate	93.364 93.364	1,595,094 302,374 1,897,468
Disadvantaged Student Loan Program – Medicine/Primary Care Disadvantaged Student Loan Program – Pharmacy Disadvantaged Student Loan Program – Dentistry	93.925 93.925 93.925	4,761,035 105,000 <u>114,392</u> 4,980,427
Total University administered federal loans outstanding		\$ 54,340,451



## 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 Michigan

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 business-type activities and aggregate fiduciary activities of the University of Michigan (the "University"), which comprise the statements of net position and of fiduciary net position as of June 30, 2021, and the related statements of revenues, expenses and changes in net position, of cash flows and of changes in fiduciary net position for the year then ended, and the related notes to the financial statements, and have issued our report thereon dated October 21, 2021, which includes an emphasis of matter paragraph related to the University changing the manner in which it accounts for fiduciary activities in 2021, as discussed in Note 1 to the financial statements.

### **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 the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we do not express an opinion on the effectiveness of the University's internal control.

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

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

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### **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 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*.

### **Purpose of this Report**

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

Pricewoterhouselloopers Z. J.P.

October 21, 2021



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

To the Regents of the University of Michigan:

### **Report on Compliance for Each Major Federal Program**

We have audited the University of Michigan's (the "University") 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, 2021. 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.

### Management's Responsibility

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

#### Auditors' Responsibility

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

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

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### **Opinion on Each Major Federal Program**

In our opinion, the University of Michigan complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2021.

### **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 10 "Gramm-Leach-Bliley Act-Student Information Security." This section includes three suggested audit procedures with respect to verification that the institution (1) designated an individual 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 2021-001 and 2021-002. Our opinion on each major federal program is not modified with respect to these matters.

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

### **Report on Internal Control Over Compliance**

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



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

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

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

Pricewoterhouselloopers Z.J.P.

May 6, 2022

# Section I – Summary of Auditors' Results

Financial Statements		
Type of auditor's report issued:	Unmodified opinion	
<ul><li>Internal control over financial reporting:</li><li>Material weakness(es) identified?</li></ul>	Yes	🖂 No
• Significant deficiency(ies) identified not considered to be material weaknesses?	Yes	None reported
• Noncompliance material to financial statements noted?	Yes	🖾 No
<ul><li>Federal Awards</li><li>Internal control over major programs:</li><li>Material weakness(es) identified?</li></ul>	Yes	🖂 No
• Significant deficiency(ies) identified not considered to be material weakness(es)?	Yes	None reported
Type of auditor's report issued on compliance for major programs:	Unmodified opinion	
Any audit findings disclosed that are required to be reported in accordance with 2 CFR 200.516(a)?	X Yes	🗌 No
Identification of major programs: <u>Assistance Listing Number</u> Various 21.019 84.425c, 84.425e, 84.425f, 84.425m 93.498	Assistance Listing Program Title or Cluster Student Financial Assistance Cluster COVID-19-Coronavirus Relief Fund COVID-19-Education Stabilization Fund COVID-19-Provider Relief Fund and American Rescue Plan (ARP) Rural Distribution	
Dollar threshold used to distinguish between Type A and Type B programs:	<u>\$5,050,862</u>	
Auditee qualified as low-risk auditee?	Xes Yes	🗌 No

# **Section II – Financial Statement Findings**

None.

### Section III – Federal Award Findings and Questioned Costs

**Finding 2021-001 – Public Reporting** 

Cluster: N/A

Federal Agency: US Department of Education

**Assistance Listing Title and Number:** COVID-19-Education Stabilization Fund – 84.425E and 84.425F

Award Name: Higher Education Emergency Relief Fund – Student Aid and Institutional Portions

Award Year: Academic Year 2020-2021

**Criteria:** The University is subject to compliance requirements pertaining to the periodic public reporting of expenditures of both the Student Aid Portion and the Institutional Portion of funds received under the Higher Education Emergency Relief Fund ("HEERF"). The Coronavirus Aid, Relief, and Economic Security ("CARES") Act 18004(e) and the Coronavirus Response and Relief Supplemental Appropriations Act ("CRRSAA") 314(e) require an institution receiving funds under HEERF I and HEERF II to submit a report to the secretary of the Department of Education ("ED"), at such time in such a manner as the secretary may require. While the American Rescue Plan ("ARP") does not explicitly identify procedures by which institutions must report on their uses of HEERF grant funds, ED exercises this reporting authority under 2 CFR section 200.328 and 2 CFR section 200.329.

With respect to the Institutional Portion of funds received, the University must publicly post a quarterly report form no later than 10 days after the end of each calendar quarter (October 10, January 10, April 10 and July 10) apart from the first report, which covers the period of issuance through September 30, 2020, and was due October 30, 2020, and the report covering the first calendar quarter of 2021, which is due July 10, 2021. In addition, with respect to the Student Aid Portion, the University must publicly post its initial quarterly report as soon as possible, but no later than 30 days after the publication of the notice or 30 days after the date ED first obligated funds under HEERF I, II, or III to the institution for Emergency Financial Aid Grants to Students, whichever comes later. This report must be updated and publicly posted no later than 10 days after the end of each calendar quarter. In addition to the requirement to file these reports timely, the University must also provide and retain support for specific key line items in the reports, including the total estimated number of students at the institution that are eligible to receive Emergency Financial Aid Grants to Students under the CARES, CRRSAA and ARP subprograms.

**Condition:** While performing an inspection of nine reports (sample population of 27 reports across the University's three campuses), it was identified that the December 31, 2020 Quarterly Institutional Report for the UM-Flint campus was publicly posted on January 26, 2021, 16 days after the 10 day period required per the terms of the underlying grant.

In addition, the University did not retain support for the number of eligible students reported as receiving CARES, CRRSAA and ARP funding in the June 30, 2021 Quarterly Student Report for the UM-Dearborn campus.

Questioned Costs: None noted.

**Cause:** Management did not have a proper process in place to monitor and ensure the timely public posting of reports to the University's website. In addition, management did not have a process in place to ensure retention and storage of supporting documentation associated with these reports.

**Effect:** A required Quarterly Institutional Report was not publicly posted in a timely manner and specific support over key data in a Quarterly Student Report was not properly maintained.

**Recommendation:** The University should reevaluate current policies and procedures as it relates to the timely public posting of the required HEERF quarterly reports. For example, the University should have a control in place to ensure that all reports have been properly posted to the University's website on or before the 10th day following the end of each calendar quarter. In addition, the University should reevaluate its current policies and procedures over document retention and storage as it relates to information supporting these periodic reports.

**View of Responsible Officials:** Refer to Management's Corrective Action Plan for management's view and corrective action plan for the finding described above.

# Finding 2021-002 – Enrollment Reporting

Cluster: Student Financial Assistance

Federal Agency: U.S. Department of Education

Assistance Listing Title and Number: Federal Pell Grant Program – 84.063, William D. Ford Federal Direct Loan Program – 84.268

Award Year: Academic Year 2020-2021

**Criteria:** Schools are required to confirm and report to the National Student Loan Data System ("NSLDS") the enrollment status of students who receive federal student loans. Enrollment information is used to determine the borrower's eligibility for in-school status, deferment, interest subsidy and grace period. Enrollment changes, such as a change from full-time to half-time status, graduation, withdrawal, or an approved leave of absence, are changes that need to be reported. The enrollment information is merged into the NSLDS database and reported to guarantors, lenders and servicers of student loans.

**Condition:** Through our enrollment reporting testing, we identified five (out of 75 tested) students at UM-Dearborn receiving Pell Grants that were incorrectly reported in the NSLDS as withdrawn instead of graduated. While this misclassification had no direct impact on the federal government or the student, the University is responsible for ensuring information is updated completely and accurately. Through further review of this matter, UM-Dearborn identified a total of 171 students impacted by this classification error.

# Questioned Costs: None noted.

**Cause:** Although the UM-Dearborn's Office of the Registrar has processes and controls to completely and accurately report student enrollment changes to the National Student Clearinghouse and to the NSLDS, these controls did not operate as designed during the period.

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

**Recommendation:** We recommend the University enhance its controls and revise its procedures to ensure that not only are status changes reported to the National Student Clearinghouse, but also that the enrollment changes are reported appropriately from the National Student Clearinghouse to NSLDS.

**View of Responsible Officials:** Refer to Management's Corrective Action Plan for management's view and corrective action plan for the finding described above.

### Finding 2020-001 – Equipment Records

Cluster: Research & Development

Federal Agency: Various

### Assistance Listing Title and Number: Various

### Award(s) and Award #'s: Various

**Summary:** While performing an inspection of 25 pieces of equipment that were acquired using funds from Federal awards, one piece of equipment was found to have an incorrect identification tag and another piece of equipment's identification tag was missing. Despite the tagging issues identified, both items were able to be agreed to the inventory records via their serial numbers. Additionally, one of the 25 items selected for inspection had been disposed of, but had not been removed from the property records.

The University has an inventory program in place to ensure equipment acquired with Federal funds is subject to a physical inventory process at least once every two years whereby on a rotational basis, the central property control area provides each department with three months to perform an inventory of their equipment. While inspecting the results of eight of these inventories, it was noted that during an inventory for one department which occurred on November 11, 2019, assets were reported as scrapped and no longer useful. However, these assets were not removed from the list of equipment acquired with Federal funds pending completion of a campus-wide physical inventory originally scheduled to commence in 2020 but delayed until 2021 given the onset of the COVID-19 pandemic.

**Status:** The University contracted with a third-party to perform a baseline physical inventory of all capitalized equipment acquired with federal and other non-patient care funds, which is expected to be completed during 2022. Additionally, the University is working to further centralize oversight and control over the physical inventory process and improve procedural awareness associated with the related Uniform Guidance requirements and University policies through enhanced training and assessment at the individual unit level. The individual unit training and assessment is expected to be completed during 2022.



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May 6, 2022

RE: Management's Corrective Action Plan

## 1. Name of the contact person responsible for corrective actions planned:

Cheryl Soper Controller and Director of Financial Operations University of Michigan (386006309) 6032 Wolverine Tower 3003 South State Street Ann Arbor, MI 48109-1287 Phone: 734-764-7214 E-mail: clsoper@umich.edu

## 2. Corrective actions planned:

## Finding No. 2021-001 – Public Reporting

**View of Responsible Officials**: The University concurs with the auditors' finding. During 2022, the University will enhance its current policies and procedures surrounding the timely posting of the required Higher Education Emergency Relief Fund ("HEERF") quarterly reports to ensure that they are publicly available on or before the 10<sup>th</sup> day following the end of each calendar quarter. The University will also update policies and procedures over document retention and storage of information supporting these reports to ensure compliance.

Completion Date: September 2021

# Finding No. 2021-002 – Enrollment Reporting

**View of Responsible Officials:** The University concurs with the auditors' finding. The UM-Dearborn campus is taking action to ensure that student enrollment status changes are reported accurately in the National Student Loan Data System ("NSLDS").

UM-Dearborn's Office of the Registrar reports graduated students via an upload to the National Student Clearinghouse ("NSC") within six weeks of the actual student graduation dates. The NSC runs a process to assign a "G" (graduated) status to the student enrollment record after the upload file is processed. However, due to the program level reporting required for enrollment and degrees which began in fall 2014, the NSC's current DegreeVerify process cannot assign a "G" enrollment status to the student program record in certain situations, resulting in the need for manual updates to the NSC file prior to submission to the NSLDS.

In order to ensure accuracy moving forward, several additional staff members will be trained to assist with the manual updates in the NSC. Additionally, UM-Dearborn is working with its colleges to shorten the degree awarding timeline to allow the possibility for uploading a special graduates-only enrollment file prior to the first enrollment file of the subsequent semester instead of depending upon the "G" assignment process within the NSC.

# Anticipated Completion Date: June 2022