
Michigan State University

Federal Awards Supplemental Information
June 30, 2023

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Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance

Independent Auditor's Report

To the Board of Trustees
Michigan State University

We have audited the financial statements of the business-type activities and discretely presented component unit of Michigan State University (the "University") as of and for the year ended June 30, 2023, and the related notes to the financial statements, which collectively comprise the University's basic financial statements. We issued our report thereon dated October 26, 2023, which contained an unmodified opinion on those financial statements. Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the basic financial statements. We have not performed any procedures with respect to the audited financial statements subsequent to October 26, 2023. We did not audit the financial statements of Michigan State University Research Foundation, which represent all of the assets, net assets, and revenue of the discretely presented component unit. Those financial statements were audited by other auditors, whose report thereon has been furnished to us, and our opinion, insofar as it relates to the amounts included for Michigan State University Research Foundation, is based on the report of the other auditors.

The accompanying schedule of expenditures of federal awards is presented for the purpose of additional analysis as required by the Uniform Guidance and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards is fairly stated in all material respects in relation to the financial statements as a whole.

Plante & Moran, PLLC

February 20, 2024

Report 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*

Independent Auditor's Report

To Management and the Board of Trustees
Michigan State University

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 basic financial statements of the business-type activities and discretely presented component unit of Michigan State University (the "University") as of and for the year ended June 30, 2023 and the related notes to the basic financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated October 26, 2023. Our report includes a reference to other auditors who audited the financial statements of Michigan State University Research Foundation (the "Foundation"), as described in our report on Michigan State University's financial statements. The financial statements of the Foundation were not audited in accordance with *Government Auditing Standards*, and, accordingly, this report does not include reporting on internal control over financial reporting or compliance and other matters associated with the Foundation or that are reported on separately by those auditors who audited the financial statements of the Foundation.

Report on Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the University's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we do not express an opinion on the effectiveness of 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 University'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 or significant deficiencies may exist that were not identified.

Report on Compliance and Other Matters

As part of obtaining reasonable assurance about whether the University's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the 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*.

To Management and the Board of Trustees
Michigan State University

Purpose of this Report

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

Plante & Moran, PLLC

October 26, 2023

Report on Compliance for Each Major Federal Program and Report on Internal Control Over Compliance Required
by the Uniform Guidance

Independent Auditor's Report

To the Board of Trustees
Michigan State University

Report on Compliance for Each Major Federal Program

Opinion on Each Major Federal Program

We have audited Michigan State University's (the "University") compliance with the types of compliance requirements identified as subject to audit in the Office of Management and Budget (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, 2023. The University's major federal programs are identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs.

In our opinion, the University complied, in all material respects, with the compliance requirements referred to above that could have a direct and material effect on each of the major federal programs for the year ended June 30, 2023.

Basis for Opinion on Each Major Federal Program

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America (GAAS); the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (the "Uniform Guidance"). Our responsibilities under those standards and the Uniform Guidance are further described in the *Auditor's Responsibilities for the Audit of Compliance* section of our report.

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

Other Matters - Federal Expenditures Not Included in the Compliance Audit

Michigan State University's basic financial statements include the operations of MSU Health Care, Inc., which expended \$1,620,424 in federal awards, which is not included in Michigan State University's schedule of expenditures of federal awards for the year ended June 30, 2023. Our audit, described below, did not include the operations of MSU Health Care, Inc. because MSU Health Care, Inc. engaged other auditors to perform an audit of compliance.

Responsibilities of Management for Compliance

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

To the Board of Trustees
Michigan State University

Auditor's Responsibilities for the Audit of Compliance

Our objectives are to obtain reasonable assurance about whether material noncompliance with the compliance requirements referred to above occurred, whether due to fraud or error, and express an opinion on Michigan State University's compliance based on our audit. Reasonable assurance is a high level of assurance but is not absolute assurance and, therefore, is not a guarantee that an audit conducted in accordance with GAAS, *Government Auditing Standards*, and the Uniform Guidance will always detect material noncompliance when it exists. The risk of not detecting material noncompliance resulting from fraud is higher than for that resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Noncompliance with the compliance requirements referred to above is considered material if there is a substantial likelihood that, individually or in the aggregate, it would influence the judgment made by a reasonable user of the report on compliance about Michigan State University's compliance with the requirements of each major federal program as a whole.

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

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material noncompliance, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding Michigan State University's compliance with the compliance requirements referred to above and performing such other procedures as we considered necessary in the circumstances.
- Obtain an understanding of Michigan State University's internal control over compliance relevant to the audit in order to design audit procedures that are appropriate in the circumstances and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of Michigan State University's internal control over compliance. Accordingly, no such opinion is expressed.

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

Report on Internal Control Over Compliance

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

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 a combination of deficiencies, in internal control over compliance such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. We consider the deficiencies in internal control over compliance described in the accompanying schedule of findings and questioned costs as Findings 2023-001, 2023-002, and 2023-003 to be material weaknesses.

A significant deficiency in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention of those charged with governance.

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

To the Board of Trustees
Michigan State University

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

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.

Plante & Moran, PLLC

February 20, 2024

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER						
U.S. Dept of Agriculture	Direct	10.RD	22-JV-11242309-052	USDA FOREST SERVICE	\$ 5,930	\$ -
U.S. Dept of Agriculture	Direct	10.RD	22-JV-11261989-084	USDA FOREST SERVICE	12,154	-
U.S. Dept of Agriculture	Direct	10.RD	22-CR-11242303-054	USDA FOREST SERVICE	18,948	-
U.S. Dept of Agriculture	Direct	10.RD	23-CS-11090400-002	USDA FOREST SERVICE	12,088	-
U.S. Dept of Agriculture	Direct	10.001	59-0206-6-003	AGRICULTURAL RESEARCH SERVICE	(4,179)	-
U.S. Dept of Agriculture	Direct	10.001	58-3060-8-022	AGRICULTURAL RESEARCH SERVICE	34,562	-
U.S. Dept of Agriculture	Direct	10.001	59-0206-8-189	AGRICULTURAL RESEARCH SERVICE	41	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-8-008	AGRICULTURAL RESEARCH SERVICE	15,300	-
U.S. Dept of Agriculture	Direct	10.001	58-3042-8-012	AGRICULTURAL RESEARCH SERVICE	1,626	-
U.S. Dept of Agriculture	Direct	10.001	58-5082-8-023	AGRICULTURAL RESEARCH SERVICE	93,713	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-9-001	AGRICULTURAL RESEARCH SERVICE	22,640	-
U.S. Dept of Agriculture	Direct	10.001	59-0206-0-114	AGRICULTURAL RESEARCH SERVICE	(15,087)	-
U.S. Dept of Agriculture	Direct	10.001	58-0202-0-177	AGRICULTURAL RESEARCH SERVICE	493,356	-
U.S. Dept of Agriculture	Direct	10.001	59-0206-0-138	AGRICULTURAL RESEARCH SERVICE	(2,338)	-
U.S. Dept of Agriculture	Direct	10.001	59-0206-0-152	AGRICULTURAL RESEARCH SERVICE	23,924	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-0-001	AGRICULTURAL RESEARCH SERVICE	81,153	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-0-003	AGRICULTURAL RESEARCH SERVICE	(1,912)	-
U.S. Dept of Agriculture	Direct	10.001	58-5090-0-027	AGRICULTURAL RESEARCH SERVICE	4,819	-
U.S. Dept of Agriculture	Direct	10.001	58-5090-0-025	AGRICULTURAL RESEARCH SERVICE	(11,764)	-
U.S. Dept of Agriculture	Direct	10.001	58-2072-0-059	AGRICULTURAL RESEARCH SERVICE	122,844	-
U.S. Dept of Agriculture	Direct	10.001	58-0206-1-187	AGRICULTURAL RESEARCH SERVICE	41,095	-
U.S. Dept of Agriculture	Direct	10.001	58-3060-1-024	U.S. DEPT OF AGRICULTURE	58,665	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-1-003	AGRICULTURAL RESEARCH SERVICE	5,241	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-1-002	AGRICULTURAL RESEARCH SERVICE	2,533	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-1-001	AGRICULTURAL RESEARCH SERVICE	28,579	-
U.S. Dept of Agriculture	Direct	10.001	58-8060-1-004	AGRICULTURAL RESEARCH SERVICE	74,918	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-1-004	AGRICULTURAL RESEARCH SERVICE	8,553	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-1-007	AGRICULTURAL RESEARCH SERVICE	39,985	-
U.S. Dept of Agriculture	Direct	10.001	58-2034-1-017	AGRICULTURAL RESEARCH SERVICE	46,818	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-1-006	AGRICULTURAL RESEARCH SERVICE	67,184	-
U.S. Dept of Agriculture	Direct	10.001	58-8042-1-034	AGRICULTURAL RESEARCH SERVICE	(6,733)	-
U.S. Dept of Agriculture	Direct	10.001	58-2054-2-002	AGRICULTURAL RESEARCH SERVICE	126,968	-
U.S. Dept of Agriculture	Direct	10.001	59-0206-2-100	AGRICULTURAL RESEARCH SERVICE	63,860	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-2-004	AGRICULTURAL RESEARCH SERVICE	50,501	-
U.S. Dept of Agriculture	Direct	10.001	58-3060-2-020	AGRICULTURAL RESEARCH SERVICE	56,169	-
U.S. Dept of Agriculture	Direct	10.001	58-3060-2-018	AGRICULTURAL RESEARCH SERVICE	21,041	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-2-006	AGRICULTURAL RESEARCH SERVICE	138,186	-
U.S. Dept of Agriculture	Direct	10.001	59-0206-2-135	AGRICULTURAL RESEARCH SERVICE	186,137	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-2-007	AGRICULTURAL RESEARCH SERVICE	25,617	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-2-005	AGRICULTURAL RESEARCH SERVICE	102,918	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-2-008	AGRICULTURAL RESEARCH SERVICE	81,839	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-2-011	AGRICULTURAL RESEARCH SERVICE	4,200	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-2-012	AGRICULTURAL RESEARCH SERVICE	76,407	-
U.S. Dept of Agriculture	Direct	10.001	58-3060-2-038	AGRICULTURAL RESEARCH SERVICE	7,034	-
U.S. Dept of Agriculture	Direct	10.001	58-8064-2-013	AGRICULTURAL RESEARCH SERVICE	3,543	-
U.S. Dept of Agriculture	Direct	10.001	58-8060-2-009	AGRICULTURAL RESEARCH SERVICE	20,199	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-2-010	AGRICULTURAL RESEARCH SERVICE	26,858	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-2-009	AGRICULTURAL RESEARCH SERVICE	62,298	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-3-001	AGRICULTURAL RESEARCH SERVICE	60,323	-
U.S. Dept of Agriculture	Direct	10.001	58-8042-2-062	AGRICULTURAL RESEARCH SERVICE	6,029	-
U.S. Dept of Agriculture	Direct	10.001	58-5050-3-003	AGRICULTURAL RESEARCH SERVICE	3,703	-
U.S. Dept of Agriculture	Direct	10.001	58-2034-3-432	AGRICULTURAL RESEARCH SERVICE	605	-
U.S. Dept of Agriculture	Direct	10.025	AP19PPQS&T00C155	ANIMAL & PLANT HEALTH INSPECTION SERVICE	(4,332)	90,184
U.S. Dept of Agriculture	Direct	10.025	AP20PPQS&T00C016	ANIMAL & PLANT HEALTH INSPECTION SERVICE	(3)	-
U.S. Dept of Agriculture	Direct	10.025	AP20PPQF0000C556	ANIMAL & PLANT HEALTH INSPECTION SERVICE	10,098	-
U.S. Dept of Agriculture	Direct	10.025	AP21PPQS&T00C018	ANIMAL & PLANT HEALTH INSPECTION SERVICE	67,849	-
U.S. Dept of Agriculture	Direct	10.025	AP21PPQS&T00C136	ANIMAL & PLANT HEALTH INSPECTION SERVICE	19,301	-
U.S. Dept of Agriculture	Direct	10.025	AP21PPQS&T00C034	ANIMAL & PLANT HEALTH INSPECTION SERVICE	8,067	-
U.S. Dept of Agriculture	Direct	10.025	AP21PPQS&T00C167	ANIMAL & PLANT HEALTH INSPECTION SERVICE	9,075	-
U.S. Dept of Agriculture	Direct	10.025	AP21PPQS&T00C154	ANIMAL & PLANT HEALTH INSPECTION SERVICE	6,587	-
U.S. Dept of Agriculture	Direct	10.025	AP21PPQS&T00C187	ANIMAL & PLANT HEALTH INSPECTION SERVICE	23,754	-
U.S. Dept of Agriculture	Direct	10.025	AP22VSD&B000C021	ANIMAL & PLANT HEALTH INSPECTION SERVICE	31,412	-
U.S. Dept of Agriculture	Direct	10.025	AP22PPQS&T00C017	ANIMAL & PLANT HEALTH INSPECTION SERVICE	122,777	-
U.S. Dept of Agriculture	Direct	10.025	AP22PPQS&T00C010	ANIMAL & PLANT HEALTH INSPECTION SERVICE	117,221	-
U.S. Dept of Agriculture	Direct	10.025	AP22PPQF0000C459	ANIMAL & PLANT HEALTH INSPECTION SERVICE	43,531	-
U.S. Dept of Agriculture	Direct	10.025	AP22PPQS&T00C066	ANIMAL & PLANT HEALTH INSPECTION SERVICE	22,103	-
U.S. Dept of Agriculture	Direct	10.025	AP22PPQS&T00C169	ANIMAL & PLANT HEALTH INSPECTION SERVICE	521	-
U.S. Dept of Agriculture	Direct	10.025	AP22PPQS&T00C181	ANIMAL & PLANT HEALTH INSPECTION SERVICE	21,136	-
U.S. Dept of Agriculture	Direct	10.028	AP22WSNWR00C024	ANIMAL & PLANT HEALTH INSPECTION SERVICE	6,424	-
U.S. Dept of Agriculture	Direct	10.028	AP22WSNWR00C086	ANIMAL & PLANT HEALTH INSPECTION SERVICE	3,844	-
U.S. Dept of Agriculture	Direct	10.069	FBC21CPT0011802	USDA-FARM SERVICE AGENCY	309,526	2,478
U.S. Dept of Agriculture	Direct	10.156	AM180100XXXXG151	AGRICULTURAL MARKETNG SERVICE	11,398	-
U.S. Dept of Agriculture	Direct	10.156	AM190100XXXXG062	AGRICULTURAL MARKETNG SERVICE	5,408	-
U.S. Dept of Agriculture	Direct	10.164	21-TMMSD-MM0002	AGRICULTURAL MARKETNG SERVICE	67,561	-
U.S. Dept of Agriculture	Direct	10.164	22-TMMSD-MM0011	AGRICULTURAL MARKETNG SERVICE	49,339	-
U.S. Dept of Agriculture	Direct	10.174	AM200100XXXXG010	U.S. DEPT OF AGRICULTURE	181,491	-
U.S. Dept of Agriculture	Direct	10.174	21ACERMH009	AGRICULTURAL MARKETNG SERVICE	131,510	-
U.S. Dept of Agriculture	Direct	10.200	2019-34383-29882	NATIONAL INST OF FOOD & AGRICULTURE	212,635	-
U.S. Dept of Agriculture	Direct	10.200	2019-70007-30417	NATIONAL INST OF FOOD & AGRICULTURE	65,277	22,976
U.S. Dept of Agriculture	Direct	10.200	2019-34141-30284	NATIONAL INST OF FOOD & AGRICULTURE	134,798	406,192
U.S. Dept of Agriculture	Direct	10.200	2020-70007-32410	NATIONAL INST OF FOOD & AGRICULTURE	75,673	-
U.S. Dept of Agriculture	Direct	10.200	2021-34141-35447	NATIONAL INST OF FOOD & AGRICULTURE	877,857	239,983
U.S. Dept of Agriculture	Direct	10.200	2022-38624-38368	NATIONAL INST OF FOOD & AGRICULTURE	51,193	-
U.S. Dept of Agriculture	Direct	10.202	N21MSCFRXXXG021-MCNTIRE-STENNIS	U.S. DEPT OF AGRICULTURE	38,172	-
U.S. Dept of Agriculture	Direct	10.202	N21MSCFRXXXG021-MCNTIRE-STENNIS	U.S. DEPT OF AGRICULTURE	19,608	-
U.S. Dept of Agriculture	Direct	10.202	N21MSCFRXXXG021-MCNTIRE-STENNIS	U.S. DEPT OF AGRICULTURE	38,040	-
U.S. Dept of Agriculture	Direct	10.202	N21MSCFRXXXG021-MCNTIRE-STENNIS	U.S. DEPT OF AGRICULTURE	32,136	-
U.S. Dept of Agriculture	Direct	10.202	N21MSCFRXXXG021-MCNTIRE-STENNIS	U.S. DEPT OF AGRICULTURE	6,201	-
U.S. Dept of Agriculture	Direct	10.202	N21MSCFRXXXG021-MCNTIRE-STENNIS	U.S. DEPT OF AGRICULTURE	(14,895)	-
U.S. Dept of Agriculture	Direct	10.202	N21MSCFRXXXG021-MCNTIRE-STENNIS	U.S. DEPT OF AGRICULTURE	27,440	-
U.S. Dept of Agriculture	Direct	10.202	N21MSCFRXXXG021-MCNTIRE-STENNIS	U.S. DEPT OF AGRICULTURE	17,813	-
U.S. Dept of Agriculture	Direct	10.202	N22MSCFRXXXG017-MCNTIRE-STENNIS	U.S. DEPT OF AGRICULTURE	6,432	-
U.S. Dept of Agriculture	Direct	10.202	N23MSCFRXXXG003	U.S. DEPT OF AGRICULTURE	5,393	-
U.S. Dept of Agriculture	Direct	10.202	N23MSCFRXXXG003	U.S. DEPT OF AGRICULTURE	35,283	-
U.S. Dept of Agriculture	Direct	10.202	N23MSCFRXXXG003	U.S. DEPT OF AGRICULTURE	4,704	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	297,036	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	210,330	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	443,606	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	164,713	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	536,757	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	128,536	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	\$ 298,288	\$ -
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	143,102	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	70,626	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	70,997	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	914,671	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	152,835	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	660,366	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	269,918	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	17,451	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	9,250	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	17,499	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	17,500	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	181,157	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	54,493	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	17,500	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	22,818	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	17,500	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	106,689	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	6,186	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	10,462	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	88,487	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	46,203	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	44,343	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	50,194	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	4,031	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	62,092	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	4,817	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	182,971	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	45,411	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	16,648	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	18,536	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	39,519	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	39,704	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	53,210	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	8,359	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	28,137	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	53,203	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	34,727	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	27,028	-
U.S. Dept of Agriculture	Direct	10.203	N21HFPXXXXG005-HATCH	U.S. DEPT OF AGRICULTURE	13,574	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	13,271	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	13,723	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	26,200	-
U.S. Dept of Agriculture	Direct	10.203	N22HFPXXXXG010-HATCH	U.S. DEPT OF AGRICULTURE	127,276	-
U.S. Dept of Agriculture	Direct	10.203	N22HFPXXXXG010-HATCH	U.S. DEPT OF AGRICULTURE	175,248	-
U.S. Dept of Agriculture	Direct	10.203	N22HFPXXXXG010-HATCH	U.S. DEPT OF AGRICULTURE	78,569	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	29,797	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	3,704	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	36,924	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	11,546	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	44,551	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	24,290	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	29,779	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	9,832	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	30,864	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	44,918	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	43,870	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	30,752	-
U.S. Dept of Agriculture	Direct	10.203	N22HMFXXXXG053-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	11,338	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	13,809	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	19,071	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	25,830	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	17,015	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	15,450	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	14,074	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	51,507	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	17,155	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	17,171	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	17,497	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	17,370	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	17,499	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	17,878	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	17,461	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	15,049	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	14,728	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	16,332	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	15,329	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	8,705	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	17,500	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	14,918	-
U.S. Dept of Agriculture	Direct	10.203	N21HMFXXXXG027-HATCH MULTISTATE	U.S. DEPT OF AGRICULTURE	14,918	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	29,583	-
U.S. Dept of Agriculture	Direct	10.203	N23HMFXXXXG001	U.S. DEPT OF AGRICULTURE	17,219	-
U.S. Dept of Agriculture	Direct	10.203	N23HFPXXXXG018	U.S. DEPT OF AGRICULTURE	2,445	-
U.S. Dept of Agriculture	Direct	10.207	N23AHDRXXXXG024	U.S. DEPT OF AGRICULTURE	9,493	-
U.S. Dept of Agriculture	Direct	10.207	N23AHDRXXXXG024	U.S. DEPT OF AGRICULTURE	7,110	-
U.S. Dept of Agriculture	Direct	10.219	2018-3522-28736	NATIONAL INST OF FOOD & AGRICULTURE	85,252	11,337
U.S. Dept of Agriculture	Direct	10.250	58-6000-6-0067	ECONOMIC RESEARCH SERVICE	4,310	-
U.S. Dept of Agriculture	Direct	10.250	58-6000-1-0125	ECONOMIC RESEARCH SERVICE	138,220	-
U.S. Dept of Agriculture	Direct	10.250	58-3000-1-0108	ECONOMIC RESEARCH SERVICE	36,270	-
U.S. Dept of Agriculture	Direct	10.303	2018-51106-28779	NATIONAL INST OF FOOD & AGRICULTURE	21,279	-
U.S. Dept of Agriculture	Direct	10.303	2018-51106-28776	NATIONAL INST OF FOOD & AGRICULTURE	(2,322)	3,537
U.S. Dept of Agriculture	Direct	10.304	2021-37621-35788	NATIONAL INST OF FOOD & AGRICULTURE	316,424	257,687
U.S. Dept of Agriculture	Direct	10.304	2022-37624-38230	NATIONAL INST OF FOOD & AGRICULTURE	139,791	-
U.S. Dept of Agriculture	Direct	10.304	2022-37621-38278	NATIONAL INST OF FOOD & AGRICULTURE	89,363	-
U.S. Dept of Agriculture	Direct	10.309	2017-51181-26828	NATIONAL INST OF FOOD & AGRICULTURE	198,440	325,556
U.S. Dept of Agriculture	Direct	10.309	2017-51181-26828	NATIONAL INST OF FOOD & AGRICULTURE	3,619	-
U.S. Dept of Agriculture	Direct	10.309	2019-51181-30017	NATIONAL INST OF FOOD & AGRICULTURE	497,818	123,186
U.S. Dept of Agriculture	Direct	10.309	2019-51181-30017	NATIONAL INST OF FOOD & AGRICULTURE	7,151	-
U.S. Dept of Agriculture	Direct	10.309	2019-51181-30017	NATIONAL INST OF FOOD & AGRICULTURE	85,394	-
U.S. Dept of Agriculture	Direct	10.309	2020-51181-32139	NATIONAL INST OF FOOD & AGRICULTURE	1,524,898	946,664
U.S. Dept of Agriculture	Direct	10.309	2020-51181-32158	NATIONAL INST OF FOOD & AGRICULTURE	1,142,747	725,709
U.S. Dept of Agriculture	Direct	10.309	2020-51181-32155	NATIONAL INST OF FOOD & AGRICULTURE	608,494	275,158
U.S. Dept of Agriculture	Direct	10.309	2020-51181-32139	NATIONAL INST OF FOOD & AGRICULTURE	174,828	-
U.S. Dept of Agriculture	Direct	10.309	2022-51181-38331	NATIONAL INST OF FOOD & AGRICULTURE	50,202	-
U.S. Dept of Agriculture	Direct	10.309	2022-51181-38331	NATIONAL INST OF FOOD & AGRICULTURE	11,358	-
U.S. Dept of Agriculture	Direct	10.309	2022-51181-38331	NATIONAL INST OF FOOD & AGRICULTURE	19,709	-
U.S. Dept of Agriculture	Direct	10.310	2015-68003-23415	NATIONAL INST OF FOOD & AGRICULTURE	22,860	209,082
U.S. Dept of Agriculture	Direct	10.310	2017-67015-26084	NATIONAL INST OF FOOD & AGRICULTURE	173,888	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Agriculture	Direct	10.310	2017-67023-26271	NATIONAL INST OF FOOD & AGRICULTURE	\$ 162,473	\$ -
U.S. Dept of Agriculture	Direct	10.310	2017-67023-26395	NATIONAL INST OF FOOD & AGRICULTURE	49,835	-
U.S. Dept of Agriculture	Direct	10.310	2017-67015-26876	NATIONAL INST OF FOOD & AGRICULTURE	702	-
U.S. Dept of Agriculture	Direct	10.310	2017-67015-26806	NATIONAL INST OF FOOD & AGRICULTURE	(12,375)	-
U.S. Dept of Agriculture	Direct	10.310	2018-67013-27404	NATIONAL INST OF FOOD & AGRICULTURE	28,272	-
U.S. Dept of Agriculture	Direct	10.310	2018-67003-27406	NATIONAL INST OF FOOD & AGRICULTURE	214,677	148,862
U.S. Dept of Agriculture	Direct	10.310	2018-67013-27457	NATIONAL INST OF FOOD & AGRICULTURE	30,683	-
U.S. Dept of Agriculture	Direct	10.310	2018-67013-27592	NATIONAL INST OF FOOD & AGRICULTURE	95,309	-
U.S. Dept of Agriculture	Direct	10.310	2018-67013-28065	NATIONAL INST OF FOOD & AGRICULTURE	26,031	-
U.S. Dept of Agriculture	Direct	10.310	2018-67017-27876	NATIONAL INST OF FOOD & AGRICULTURE	69,383	-
U.S. Dept of Agriculture	Direct	10.310	2018-67015-28288	NATIONAL INST OF FOOD & AGRICULTURE	114,046	-
U.S. Dept of Agriculture	Direct	10.310	2018-68003-28151	NATIONAL INST OF FOOD & AGRICULTURE	113,498	174,643
U.S. Dept of Agriculture	Direct	10.310	2018-67015-28302	NATIONAL INST OF FOOD & AGRICULTURE	226,536	-
U.S. Dept of Agriculture	Direct	10.310	2018-67015-28242	NATIONAL INST OF FOOD & AGRICULTURE	92,456	-
U.S. Dept of Agriculture	Direct	10.310	2018-67013-28015	NATIONAL INST OF FOOD & AGRICULTURE	(1,219)	15,011
U.S. Dept of Agriculture	Direct	10.310	2019-67017-29112	NATIONAL INST OF FOOD & AGRICULTURE	37,142	-
U.S. Dept of Agriculture	Direct	10.310	2019-67013-29203	NATIONAL INST OF FOOD & AGRICULTURE	61,809	-
U.S. Dept of Agriculture	Direct	10.310	2019-67013-29203	NATIONAL INST OF FOOD & AGRICULTURE	2,267	-
U.S. Dept of Agriculture	Direct	10.310	2019-67013-29203	NATIONAL INST OF FOOD & AGRICULTURE	9,656	-
U.S. Dept of Agriculture	Direct	10.310	2019-67015-29323	NATIONAL INST OF FOOD & AGRICULTURE	45,571	-
U.S. Dept of Agriculture	Direct	10.310	2019-67019-29305	NATIONAL INST OF FOOD & AGRICULTURE	72,976	45,557
U.S. Dept of Agriculture	Direct	10.310	2019-67015-29443	NATIONAL INST OF FOOD & AGRICULTURE	32,201	-
U.S. Dept of Agriculture	Direct	10.310	2019-67019-29361	NATIONAL INST OF FOOD & AGRICULTURE	49,806	-
U.S. Dept of Agriculture	Direct	10.310	2019-67015-29483	NATIONAL INST OF FOOD & AGRICULTURE	63,478	-
U.S. Dept of Agriculture	Direct	10.310	2019-68010-29281	NATIONAL INST OF FOOD & AGRICULTURE	27,649	-
U.S. Dept of Agriculture	Direct	10.310	2019-68010-29281	NATIONAL INST OF FOOD & AGRICULTURE	7,957	-
U.S. Dept of Agriculture	Direct	10.310	2019-67019-29305	NATIONAL INST OF FOOD & AGRICULTURE	36,600	-
U.S. Dept of Agriculture	Direct	10.310	2020-67013-30788	NATIONAL INST OF FOOD & AGRICULTURE	30,470	13,874
U.S. Dept of Agriculture	Direct	10.310	2020-67017-30838	NATIONAL INST OF FOOD & AGRICULTURE	59,091	-
U.S. Dept of Agriculture	Direct	10.310	2020-67019-31147	NATIONAL INST OF FOOD & AGRICULTURE	74,829	-
U.S. Dept of Agriculture	Direct	10.310	2020-67023-30958	NATIONAL INST OF FOOD & AGRICULTURE	166,755	-
U.S. Dept of Agriculture	Direct	10.310	2020-67015-30883	NATIONAL INST OF FOOD & AGRICULTURE	40,370	-
U.S. Dept of Agriculture	Direct	10.310	2020-67013-30870	NATIONAL INST OF FOOD & AGRICULTURE	129,132	-
U.S. Dept of Agriculture	Direct	10.310	2020-67023-31635	NATIONAL INST OF FOOD & AGRICULTURE	6,992	-
U.S. Dept of Agriculture	Direct	10.310	2020-67023-31635	NATIONAL INST OF FOOD & AGRICULTURE	4,171	-
U.S. Dept of Agriculture	Direct	10.310	2020-67015-31267	NATIONAL INST OF FOOD & AGRICULTURE	71,089	-
U.S. Dept of Agriculture	Direct	10.310	2020-67015-30827	NATIONAL INST OF FOOD & AGRICULTURE	107,238	136,327
U.S. Dept of Agriculture	Direct	10.310	2020-67015-31562	NATIONAL INST OF FOOD & AGRICULTURE	89,080	26,495
U.S. Dept of Agriculture	Direct	10.310	2020-67014-30902	NATIONAL INST OF FOOD & AGRICULTURE	168,470	19,207
U.S. Dept of Agriculture	Direct	10.310	2020-67013-31185	NATIONAL INST OF FOOD & AGRICULTURE	196,316	11,584
U.S. Dept of Agriculture	Direct	10.310	2020-67015-31541	NATIONAL INST OF FOOD & AGRICULTURE	6,260	-
U.S. Dept of Agriculture	Direct	10.310	2020-67013-31919	NATIONAL INST OF FOOD & AGRICULTURE	143,594	-
U.S. Dept of Agriculture	Direct	10.310	2020-68012-31822	NATIONAL INST OF FOOD & AGRICULTURE	1,874,530	479,918
U.S. Dept of Agriculture	Direct	10.310	2020-67023-33260	NATIONAL INST OF FOOD & AGRICULTURE	124,292	66,145
U.S. Dept of Agriculture	Direct	10.310	2021-67015-33383	NATIONAL INST OF FOOD & AGRICULTURE	77,576	-
U.S. Dept of Agriculture	Direct	10.310	2021-67015-33413	NATIONAL INST OF FOOD & AGRICULTURE	177,238	-
U.S. Dept of Agriculture	Direct	10.310	2021-67015-33411	NATIONAL INST OF FOOD & AGRICULTURE	79,913	-
U.S. Dept of Agriculture	Direct	10.310	2021-67013-33756	NATIONAL INST OF FOOD & AGRICULTURE	228,791	-
U.S. Dept of Agriculture	Direct	10.310	2021-67013-33620	NATIONAL INST OF FOOD & AGRICULTURE	201,097	-
U.S. Dept of Agriculture	Direct	10.310	2021-67015-33386	NATIONAL INST OF FOOD & AGRICULTURE	131,478	-
U.S. Dept of Agriculture	Direct	10.310	2021-67021-33998	NATIONAL INST OF FOOD & AGRICULTURE	43,648	20,839
U.S. Dept of Agriculture	Direct	10.310	2021-68014-34140	NATIONAL INST OF FOOD & AGRICULTURE	168,865	39,103
U.S. Dept of Agriculture	Direct	10.310	2021-68008-34119	NATIONAL INST OF FOOD & AGRICULTURE	126,968	-
U.S. Dept of Agriculture	Direct	10.310	2021-67021-34149	NATIONAL INST OF FOOD & AGRICULTURE	176,989	-
U.S. Dept of Agriculture	Direct	10.310	2021-68008-34196	NATIONAL INST OF FOOD & AGRICULTURE	58,649	3,366
U.S. Dept of Agriculture	Direct	10.310	2021-67021-34150	NATIONAL INST OF FOOD & AGRICULTURE	243,269	82,379
U.S. Dept of Agriculture	Direct	10.310	2018-68006-34968	NATIONAL INST OF FOOD & AGRICULTURE	123,944	-
U.S. Dept of Agriculture	Direct	10.310	2021-67015-34563	NATIONAL INST OF FOOD & AGRICULTURE	127,584	-
U.S. Dept of Agriculture	Direct	10.310	2021-67034-35168	NATIONAL INST OF FOOD & AGRICULTURE	51,497	-
U.S. Dept of Agriculture	Direct	10.310	2021-67034-35168	NATIONAL INST OF FOOD & AGRICULTURE	750	-
U.S. Dept of Agriculture	Direct	10.310	2022-67019-36104	NATIONAL INST OF FOOD & AGRICULTURE	211,570	-
U.S. Dept of Agriculture	Direct	10.310	2022-67019-36107	NATIONAL INST OF FOOD & AGRICULTURE	206,699	12,714
U.S. Dept of Agriculture	Direct	10.310	2022-67013-36388	NATIONAL INST OF FOOD & AGRICULTURE	384,423	-
U.S. Dept of Agriculture	Direct	10.310	2022-67019-36487	NATIONAL INST OF FOOD & AGRICULTURE	82,564	-
U.S. Dept of Agriculture	Direct	10.310	2022-67015-36350	NATIONAL INST OF FOOD & AGRICULTURE	1,522	-
U.S. Dept of Agriculture	Direct	10.310	2022-68008-36354	NATIONAL INST OF FOOD & AGRICULTURE	2,545	-
U.S. Dept of Agriculture	Direct	10.310	2022-67023-36536	NATIONAL INST OF FOOD & AGRICULTURE	78,004	5,819
U.S. Dept of Agriculture	Direct	10.310	2022-68006-36433	NATIONAL INST OF FOOD & AGRICULTURE	60,018	-
U.S. Dept of Agriculture	Direct	10.310	2022-68008-36508	NATIONAL INST OF FOOD & AGRICULTURE	85,466	-
U.S. Dept of Agriculture	Direct	10.310	2022-67013-36118	NATIONAL INST OF FOOD & AGRICULTURE	150,075	-
U.S. Dept of Agriculture	Direct	10.310	2022-67015-36865	NATIONAL INST OF FOOD & AGRICULTURE	27,860	-
U.S. Dept of Agriculture	Direct	10.310	2022-67013-37079	NATIONAL INST OF FOOD & AGRICULTURE	127,366	-
U.S. Dept of Agriculture	Direct	10.310	2022-67017-36982	NATIONAL INST OF FOOD & AGRICULTURE	131,260	-
U.S. Dept of Agriculture	Direct	10.310	2022-67019-37058	NATIONAL INST OF FOOD & AGRICULTURE	92,423	-
U.S. Dept of Agriculture	Direct	10.310	2022-67023-37747	NATIONAL INST OF FOOD & AGRICULTURE	76,782	-
U.S. Dept of Agriculture	Direct	10.310	2022-67021-37858	NATIONAL INST OF FOOD & AGRICULTURE	7,056	-
U.S. Dept of Agriculture	Direct	10.310	2023-68012-39076	NATIONAL INST OF FOOD & AGRICULTURE	30,800	-
U.S. Dept of Agriculture	Direct	10.310	2022-67013-36118	NATIONAL INST OF FOOD & AGRICULTURE	12,201	-
U.S. Dept of Agriculture	Direct	10.310	2023-67015-39077	NATIONAL INST OF FOOD & AGRICULTURE	12,917	-
U.S. Dept of Agriculture	Direct	10.310	2023-67012-39321	NATIONAL INST OF FOOD & AGRICULTURE	36,769	-
U.S. Dept of Agriculture	Direct	10.310	2023-67023-39109	NATIONAL INST OF FOOD & AGRICULTURE	29,276	-
U.S. Dept of Agriculture	Direct	10.310	2023-67015-39333	NATIONAL INST OF FOOD & AGRICULTURE	38,711	-
U.S. Dept of Agriculture	Direct	10.310	2023-68006-38980	NATIONAL INST OF FOOD & AGRICULTURE	930	-
U.S. Dept of Agriculture	Direct	10.310	2023-68008-39858	NATIONAL INST OF FOOD & AGRICULTURE	2,412	-
U.S. Dept of Agriculture	Direct	10.310	2023-68013-39639	NATIONAL INST OF FOOD & AGRICULTURE	9,802	-
U.S. Dept of Agriculture	Direct	10.329	2018-70006-28883	NATIONAL INST OF FOOD & AGRICULTURE	12,851	17,910
U.S. Dept of Agriculture	Direct	10.329	2020-70006-33015	NATIONAL INST OF FOOD & AGRICULTURE	103,748	-
U.S. Dept of Agriculture	Direct	10.329	2022-70006-37992	NATIONAL INST OF FOOD & AGRICULTURE	32,135	-
U.S. Dept of Agriculture	Direct	10.329	2018-70006-28883	NATIONAL INST OF FOOD & AGRICULTURE	21,707	-
U.S. Dept of Agriculture	Direct	10.330	2018-70006-28738	NATIONAL INST OF FOOD & AGRICULTURE	70,181	-
U.S. Dept of Agriculture	Direct	10.684	21-CA-1132762-123	USDA FOREST SERVICE	26,005	-
U.S. Dept of Agriculture	Direct	10.604	TASC-2022-14	FOREIGN AGRICULTURAL SERVICE	20,055	-
U.S. Dept of Agriculture	Direct	10.652	22-00445	U.S. FOREST SERVICE FOREST PRODUCTS LABORATORY	396	-
U.S. Dept of Agriculture	Direct	10.674	18-DG-11420004-220	USDA FOREST SERVICE	18,940	-
U.S. Dept of Agriculture	Direct	10.674	23-DG-11094200-249	USDA FOREST SERVICE	5,742	-
U.S. Dept of Agriculture	Direct	10.680	17-CA-11420004-315	USDA FOREST SERVICE	63,870	-
U.S. Dept of Agriculture	Direct	10.680	18-CA-11420004-072	USDA FOREST SERVICE	143,456	-
U.S. Dept of Agriculture	Direct	10.680	19-DG-11420000-296	USDA FOREST SERVICE	889	-
U.S. Dept of Agriculture	Direct	10.680	20-CA-11094200-221	USDA FOREST SERVICE	804	-
U.S. Dept of Agriculture	Direct	10.680	20-DG-11094200-043	USDA FOREST SERVICE	44,306	-
U.S. Dept of Agriculture	Direct	10.680	23-CA-11094200-165	USDA FOREST SERVICE	228,115	-
U.S. Dept of Agriculture	Direct	10.680	23-DG-11094200-228	USDA FOREST SERVICE	3,371	-
U.S. Dept of Agriculture	Direct	10.684	21-CA-1132762-123	USDA FOREST SERVICE	26,005	-
U.S. Dept of Agriculture	Direct	10.684	22-CA-1132762-374	USDA FOREST SERVICE	960	-
U.S. Dept of Agriculture	Direct	10.699	18-CR-11242303-074	USDA FOREST SERVICE	29,328	-
U.S. Dept of Agriculture	Direct	10.699	18-PA-11091000-025	USDA FOREST SERVICE	97,941	-
U.S. Dept of Agriculture	Direct	10.699	21-CS-11242306-055	USDA FOREST SERVICE	57,486	-
U.S. Dept of Agriculture	Direct	10.699	21-PA-11083600-330	USDA FOREST SERVICE	5,061	-
U.S. Dept of Agriculture	Direct	10.699	22-CS-11090700-007	USDA FOREST SERVICE	5,963	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Agriculture	Direct	10.701	23-SA-11091000-014	USDA FOREST SERVICE	\$ 2,608	\$ -
U.S. Dept of Agriculture	Direct	10.707	19-CR-11242303-037	USDA FOREST SERVICE	2,926	-
U.S. Dept of Agriculture	Direct	10.707	19-JV-11242305-106	USDA FOREST SERVICE	35,167	-
U.S. Dept of Agriculture	Direct	10.707	20-CR-11242303-064	USDA FOREST SERVICE	17,237	-
U.S. Dept of Agriculture	Direct	10.707	20-JV-11242303-050	USDA FOREST SERVICE	323	-
U.S. Dept of Agriculture	Direct	10.707	20-JV-11242306-070	USDA FOREST SERVICE	21,642	-
U.S. Dept of Agriculture	Direct	10.707	20-JV-11242305-078	USDA FOREST SERVICE	57,217	-
U.S. Dept of Agriculture	Direct	10.707	20-JV-11242307-099	USDA FOREST SERVICE	27,945	-
U.S. Dept of Agriculture	Direct	10.707	21-JV-11242303-038	USDA FOREST SERVICE	26,380	-
U.S. Dept of Agriculture	Direct	10.707	22-JV-11242308-029	USDA FOREST SERVICE	2,125	-
U.S. Dept of Agriculture	Direct	10.707	23-JV-11242306-021	USDA FOREST SERVICE	9,871	-
U.S. Dept of Agriculture	Direct	10.707	23-JV-11242303-031	USDA FOREST SERVICE	7,676	-
U.S. Dept of Agriculture	Direct	10.902	68-5021-18-009	NATURAL RESOURCES CONSERVATION SERVICE	143,469	-
U.S. Dept of Agriculture	Direct	10.902	NR193A750025C014	USDA-NATURAL RESOURCES CONSERVATION SERVICE	76,311	-
U.S. Dept of Agriculture	Direct	10.902	NR27482000C001	USDA-NATURAL RESOURCES CONSERVATION SERVICE	75,917	-
U.S. Dept of Agriculture	Direct	10.912	NR213A750013G001	USDA-NATURAL RESOURCES CONSERVATION SERVICE	677,120	-
U.S. Dept of Agriculture	Direct	10.912	NR213A750013G015	USDA-NATURAL RESOURCES CONSERVATION SERVICE	98,824	-
U.S. Dept of Agriculture	Direct	10.912	NR213A750013G030	USDA-NATURAL RESOURCES CONSERVATION SERVICE	100,560	26,170
U.S. Dept of Agriculture	Direct	10.960	FX21TA-10960R001	FOREIGN AGRICULTURAL SERVICE	146,092	329,650
U.S. Dept of Agriculture	Direct	10.960	FX22TA-10960R002	FOREIGN AGRICULTURAL SERVICE	579,673	-
Direct Total					29,743,426	5,315,402
U.S. Dept of Agriculture	Pass-through	10.RD	2020-06-12	AMER LAMB BOARD	32,777	-
U.S. Dept of Agriculture	Pass-through	10.RD	S-003979-MSU	APPLIED RESEARCH ASSOCIATES INC	38,398	-
U.S. Dept of Agriculture	Pass-through	10.RD	Contract No. 3620-0	DAIRY MANAGEMENT INC	60,964	-
U.S. Dept of Agriculture	Pass-through	10.001	58-8042-9-045	AGRICULTURAL RESEARCH SERVICE	6,703	-
U.S. Dept of Agriculture	Pass-through	10.001	25-6235-0354-002	UNIVERSITY OF NEBRASKA - LINCOLN	3,795	-
U.S. Dept of Agriculture	Pass-through	10.001	59-2022-1-002	AGRICULTURAL RESEARCH SERVICE	37,073	-
U.S. Dept of Agriculture	Pass-through	10.001	59-6070-2-002	AGRICULTURAL RESEARCH SERVICE	39,987	-
U.S. Dept of Agriculture	Pass-through	10.001	59-6070-3-002	AGRICULTURAL RESEARCH SERVICE	6,256	-
U.S. Dept of Agriculture	Pass-through	10.025	2082	RUTGERS UNIVERSITY	6,211	-
U.S. Dept of Agriculture	Pass-through	10.025	220000001628	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	52,471	-
U.S. Dept of Agriculture	Pass-through	10.025	220000002531	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	48,670	-
U.S. Dept of Agriculture	Pass-through	10.025	230000002185	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	1,481	-
U.S. Dept of Agriculture	Pass-through	10.025	230000002103	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	17,503	-
U.S. Dept of Agriculture	Pass-through	10.025	GC230000002191	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	7,034	-
U.S. Dept of Agriculture	Pass-through	10.025	230000002192	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	8,181	-
U.S. Dept of Agriculture	Pass-through	10.028	AP21W5NWR00C042	MICHIGAN DEPT OF NATURAL RESOURCES	116,671	-
U.S. Dept of Agriculture	Pass-through	10.028	F5H4 2023-15	MICHIGAN DEPT OF NATURAL RESOURCES	33,160	-
U.S. Dept of Agriculture	Pass-through	10.170	20000000316	MIDWEST NUT PRODUCERS COUNCIL	(98)	-
U.S. Dept of Agriculture	Pass-through	10.170	2019-10-01	MICHIGAN APPLE COMMITTEE	34,040	-
U.S. Dept of Agriculture	Pass-through	10.170	2020-12-01	GNSENG BOARD OF WISCONSIN	2,539	-
U.S. Dept of Agriculture	Pass-through	10.170	2020-10-01	MICHIGAN VEGETABLE COUNCIL	(3,262)	-
U.S. Dept of Agriculture	Pass-through	10.170	2020-10-01	NATIONAL GRAPE COOPERATIVE ASSOC	19,976	-
U.S. Dept of Agriculture	Pass-through	10.170	2020-10-01	MICHIGAN STATE HORTICULTURAL SOCIETY	11,283	-
U.S. Dept of Agriculture	Pass-through	10.170	2020-10-01	MICHIGAN GREENHOUSE GROWERS	7,772	-
U.S. Dept of Agriculture	Pass-through	10.170	2020-11-01	MICHIGAN BLUEBERRY COMMISSION	49,326	-
U.S. Dept of Agriculture	Pass-through	10.170	2020-10-01	MICHIGAN GREENHOUSE GROWERS	620	-
U.S. Dept of Agriculture	Pass-through	10.170	2020-10-01	CELERY RESEARCH INC	1,150	-
U.S. Dept of Agriculture	Pass-through	10.170	2020-10-01	CELERY RESEARCH INC	12,260	-
U.S. Dept of Agriculture	Pass-through	10.170	210000000484	MICHIGAN POTATO INDUSTRY COMMISSION	28,658	-
U.S. Dept of Agriculture	Pass-through	10.170	P 470792	MICHIGAN CHRISTMAS TREE ASSOC	3,723	-
U.S. Dept of Agriculture	Pass-through	10.170	2022CPS01	CENTER FOR PRODUCE SAFETY	161,403	-
U.S. Dept of Agriculture	Pass-through	10.170	IP# 00533631	MICHIGAN VEGETABLE COUNCIL	61,894	-
U.S. Dept of Agriculture	Pass-through	10.170	IP# 00533696	MICHIGAN ONION COMMITTEE	27,037	-
U.S. Dept of Agriculture	Pass-through	10.170	IP 532997	MICHIGAN POTATO INDUSTRY COMMISSION	36,232	-
U.S. Dept of Agriculture	Pass-through	10.170	IP# 00533696	MICHIGAN ONION COMMITTEE	28,405	-
U.S. Dept of Agriculture	Pass-through	10.170	IP 533406	MICHIGAN TREE FRUIT COMMISSION	38,191	-
U.S. Dept of Agriculture	Pass-through	10.170	21SCBPM1029	MICHIGAN TREE FRUIT COMMISSION	5,458	-
U.S. Dept of Agriculture	Pass-through	10.170	59-5050-2-001	AGRICULTURAL RESEARCH SERVICE	101,029	-
U.S. Dept of Agriculture	Pass-through	10.170	IP 533577	MICHIGAN CELERY GROWERS RESEARCH COUNCIL	32,032	-
U.S. Dept of Agriculture	Pass-through	10.170	IP 533406	MICHIGAN TREE FRUIT COMMISSION	29,639	-
U.S. Dept of Agriculture	Pass-through	10.170	IP00534249	MICHIGAN STATE HORTICULTURAL SOCIETY	70,250	-
U.S. Dept of Agriculture	Pass-through	10.170	21SCBPM1029	MICHIGAN CELERY GROWERS RESEARCH COUNCIL	19,166	-
U.S. Dept of Agriculture	Pass-through	10.170	21SCBPM1029	MICHIGAN CELERY GROWERS RESEARCH COUNCIL	18,990	-
U.S. Dept of Agriculture	Pass-through	10.170	21SCBPM1029	MICHIGAN CELERY GROWERS RESEARCH COUNCIL	3,000	-
U.S. Dept of Agriculture	Pass-through	10.170	IP 533327	MICHIGAN ASPARAGUS, RESEARCH COMMITTEE	62,718	-
U.S. Dept of Agriculture	Pass-through	10.170	IP 532796	MICHIGAN CARROT COMMITTEE	34,577	-
U.S. Dept of Agriculture	Pass-through	10.170	IP 00533608	MICHIGAN BLUEBERRY COMMISSION	53,704	-
U.S. Dept of Agriculture	Pass-through	10.170	IP 532796	MICHIGAN CARROT COMMITTEE	31,174	-
U.S. Dept of Agriculture	Pass-through	10.170	IP 533710	MICHIGAN CARROT COUNCIL	36,374	-
U.S. Dept of Agriculture	Pass-through	10.170	21SCBPM1029	MICHIGAN NURSERY & LANDSCAPE ASSOC	17,638	-
U.S. Dept of Agriculture	Pass-through	10.170	IP00531601	MICHIGAN STATE HORTICULTURAL SOCIETY	65,275	-
U.S. Dept of Agriculture	Pass-through	10.170	IP# 00533619	WEST CENTRAL MICHIGAN HORTICULTURAL RESEARCH INC	62,287	-
U.S. Dept of Agriculture	Pass-through	10.170	IP00613511	POLLINATOR PARTNERSHIP	2,729	-
U.S. Dept of Agriculture	Pass-through	10.170	IP00593822	MICHIGAN CARROT COMMITTEE	6,922	-
U.S. Dept of Agriculture	Pass-through	10.170	IP00593816	MICHIGAN ASPARAGUS, RESEARCH COMMITTEE	4,432	-
U.S. Dept of Agriculture	Pass-through	10.170	00593779	HOP GROWERS OF MICHIGAN	41,433	-
U.S. Dept of Agriculture	Pass-through	10.170	21SCBPM1029	MICHIGAN ONION COMMITTEE	4,736	-
U.S. Dept of Agriculture	Pass-through	10.170	IP00593557	MICHIGAN CARROT COMMITTEE	26,457	-
U.S. Dept of Agriculture	Pass-through	10.170	AM22SCBPW1126	GNSENG BOARD OF WISCONSIN	26,526	-
U.S. Dept of Agriculture	Pass-through	10.170	00593675	MIDWEST NUT PRODUCERS COUNCIL	1,007	-
U.S. Dept of Agriculture	Pass-through	10.170	IP# 00593569	MICHIGAN VEGETABLE COUNCIL	30,674	-
U.S. Dept of Agriculture	Pass-through	10.170	IP# 00597934	MICHIGAN GREENHOUSE GROWERS	3,049	-
U.S. Dept of Agriculture	Pass-through	10.170	IP# 00574981	GNSENG BOARD OF WISCONSIN	24,076	-
U.S. Dept of Agriculture	Pass-through	10.170	IP# 00597934	MICHIGAN GREENHOUSE GROWERS	46	-
U.S. Dept of Agriculture	Pass-through	10.170	00593448	MICHIGAN TREE FRUIT COMMISSION	11,237	-
U.S. Dept of Agriculture	Pass-through	10.170	00594952	MICHIGAN STATE HORTICULTURAL SOCIETY	20,959	-
U.S. Dept of Agriculture	Pass-through	10.200	GC 23000000469	MICHIGAN CHERRY COMMITTEE	46,986	-
U.S. Dept of Agriculture	Pass-through	10.170	AM22SCBPM1161	CELERY RESEARCH INC	16,186	-
U.S. Dept of Agriculture	Pass-through	10.170	IP00593642	MICHIGAN STATE HORTICULTURAL SOCIETY	2,525	-
U.S. Dept of Agriculture	Pass-through	10.170	010300.327184.04	MISSISSIPPI STATE UNIV	1,031	-
U.S. Dept of Agriculture	Pass-through	10.174	G248-22-W9310	MONTANA STATE UNIV	38,704	-
U.S. Dept of Agriculture	Pass-through	10.174	G231-23-W9556	MONTANA STATE UNIV	24,096	-
U.S. Dept of Agriculture	Pass-through	10.174	60063642 MSU	NORTHWESTERN UNIV	26,896	-
U.S. Dept of Agriculture	Pass-through	10.200	A20-1753-5001	UNIVERSITY OF CALIFORNIA DAVIS	8,132	-
U.S. Dept of Agriculture	Pass-through	10.200	019585K	IOWA STATE UNIV	(123)	-
U.S. Dept of Agriculture	Pass-through	10.200	2021-2884-04	NORTH CAROLINA STATE UNIV	548,027	-
U.S. Dept of Agriculture	Pass-through	10.200	002798E	IOWA STATE UNIV	13,263	-
U.S. Dept of Agriculture	Pass-through	10.200	019585W	IOWA STATE UNIV	169,661	-
U.S. Dept of Agriculture	Pass-through	10.200	327054.13.17.FR21-2	MISSISSIPPI STATE UNIV	264	-
U.S. Dept of Agriculture	Pass-through	10.200	2021-2884-04	NORTH CAROLINA STATE UNIV	405,281	-
U.S. Dept of Agriculture	Pass-through	10.212	022-70031-37414	APPLICATION INSIGHT LLC	58,337	-
U.S. Dept of Agriculture	Pass-through	10.215	H00781390813	UNIVERSITY OF MINNESOTA	63,229	-
U.S. Dept of Agriculture	Pass-through	10.215	H008917103	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	66,949	-
U.S. Dept of Agriculture	Pass-through	10.215	H008917110	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	51,908	-
U.S. Dept of Agriculture	Pass-through	10.215	H008917110	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	42,697	-
U.S. Dept of Agriculture	Pass-through	10.215	H008334017	UNIVERSITY OF MINNESOTA	4,951	-
U.S. Dept of Agriculture	Pass-through	10.215	H008334017	UNIVERSITY OF MINNESOTA	1,361	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Agriculture	Pass-through	10.215	H009187802	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	\$ 64,377	\$ -
U.S. Dept of Agriculture	Pass-through	10.215	H008917127	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	2,543	-
U.S. Dept of Agriculture	Pass-through	10.215	H008917129	UNIVERSITY OF MINNESOTA	11,111	-
U.S. Dept of Agriculture	Pass-through	10.215	H008917126	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	1,267	-
U.S. Dept of Agriculture	Pass-through	10.215	H008917135	NORTH CENTRAL SUSTAINABLE AGRICULTURE RESEARCH	2,954	-
U.S. Dept of Agriculture	Pass-through	10.215	H008917131	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	4,623	-
U.S. Dept of Agriculture	Pass-through	10.215	H008917122	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	12,264	-
U.S. Dept of Agriculture	Pass-through	10.215	H008917137	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	10,811	-
U.S. Dept of Agriculture	Pass-through	10.215	H009277428	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	22	-
U.S. Dept of Agriculture	Pass-through	10.215	H009277428	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	275	-
U.S. Dept of Agriculture	Pass-through	10.215	H010694403	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	2,417	-
U.S. Dept of Agriculture	Pass-through	10.215	H010694403	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	4,400	-
U.S. Dept of Agriculture	Pass-through	10.215	H010694415	NORTH CENTRAL SUSTAINABLE AGRICULTURE RESEARCH	280	-
U.S. Dept of Agriculture	Pass-through	10.227	2020-001	BAY MILLS COMMUNITY COLLEGE	21,351	-
U.S. Dept of Agriculture	Pass-through	10.227	2021-01-MSU	KEWEENAW BAY OJIBWA COMMUNITY COLLEGE	32,997	-
U.S. Dept of Agriculture	Pass-through	10.303	SUBK00011432	UNIVERSITY OF MICHIGAN	44,656	-
U.S. Dept of Agriculture	Pass-through	10.303	SUB00002182	UNIVERSITY OF GEORGIA	63	-
U.S. Dept of Agriculture	Pass-through	10.303	F9002796702019	PURDUE UNIV	14,371	-
U.S. Dept of Agriculture	Pass-through	10.307	UMS-1196	UNIVERSITY OF MAINE	142,719	-
U.S. Dept of Agriculture	Pass-through	10.307	59-5050-9-001	AGRICULTURAL RESEARCH SERVICE	35,042	-
U.S. Dept of Agriculture	Pass-through	10.307	SUB00001844	UNIVERSITY OF GEORGIA	36	-
U.S. Dept of Agriculture	Pass-through	10.307	UMS-1196	UNIVERSITY OF MAINE	2,315	-
U.S. Dept of Agriculture	Pass-through	10.307	59-5050-9-001	AGRICULTURAL RESEARCH SERVICE	4,085	-
U.S. Dept of Agriculture	Pass-through	10.307	UMS1385	UNIVERSITY OF MAINE	15,904	-
U.S. Dept of Agriculture	Pass-through	10.309	F003370302008 8000076815-AG	PURDUE UNIV	93	-
U.S. Dept of Agriculture	Pass-through	10.309	2017-0398-06	NORTH CAROLINA STATE UNIV	1,616	-
U.S. Dept of Agriculture	Pass-through	10.309	H007082502	UNIVERSITY OF MINNESOTA	152,023	-
U.S. Dept of Agriculture	Pass-through	10.309	133336-G003922	WASHINGTON STATE UNIV	8,501	-
U.S. Dept of Agriculture	Pass-through	10.309	000000363	UNIVERSITY OF WISCONSIN MADISON	221,879	-
U.S. Dept of Agriculture	Pass-through	10.309	2020-0042-05	NORTH CAROLINA STATE UNIV	81,683	-
U.S. Dept of Agriculture	Pass-through	10.309	2232-207-2014173	CLEMSON UNIV	64,309	-
U.S. Dept of Agriculture	Pass-through	10.309	SUB00002401	UNIVERSITY OF GEORGIA	125,112	-
U.S. Dept of Agriculture	Pass-through	10.309	92884-20618	CORNELL UNIV	185,406	-
U.S. Dept of Agriculture	Pass-through	10.309	AN4829-846772	UNIVERSITY OF IDAHO	121,848	-
U.S. Dept of Agriculture	Pass-through	10.309	S-001504	UNIVERSITY OF CALIFORNIA RIVERSIDE	3,175	-
U.S. Dept of Agriculture	Pass-through	10.309	SCRIMSU-2022	SYNERGISTIC HAWAII AGRICULTURE COUNCIL	60,236	-
U.S. Dept of Agriculture	Pass-through	10.309	A009428502	UNIVERSITY OF MINNESOTA	209,594	-
U.S. Dept of Agriculture	Pass-through	10.309	M2200241	TEXAS A&M UNIV	12,938	-
U.S. Dept of Agriculture	Pass-through	10.309	203857-775	UTAH STATE UNIV	83,368	-
U.S. Dept of Agriculture	Pass-through	10.309	203857-775	UTAH STATE UNIV	108,681	-
U.S. Dept of Agriculture	Pass-through	10.309	203857-775	UTAH STATE UNIV	16,472	-
U.S. Dept of Agriculture	Pass-through	10.309	203857-775	UTAH STATE UNIV	15,950	-
U.S. Dept of Agriculture	Pass-through	10.309	AN6576-846122	UNIVERSITY OF IDAHO	29,496	-
U.S. Dept of Agriculture	Pass-through	10.309	SUB00003557	UNIVERSITY OF FLORIDA	5,784	-
U.S. Dept of Agriculture	Pass-through	10.310	1556077	UNIVERSITY OF COLORADO BOULDER	81,215	-
U.S. Dept of Agriculture	Pass-through	10.310	1556077	UNIVERSITY OF COLORADO BOULDER	51,824	-
U.S. Dept of Agriculture	Pass-through	10.310	416-41-87B	IOWA STATE UNIV	18,192	-
U.S. Dept of Agriculture	Pass-through	10.310	132484-SPC001654	WASHINGTON STATE UNIV	8,062	-
U.S. Dept of Agriculture	Pass-through	10.310	60086382	OHIO STATE UNIV	1,292	-
U.S. Dept of Agriculture	Pass-through	10.310	M1903129	TEXAS A&M UNIV	42,323	-
U.S. Dept of Agriculture	Pass-through	10.310	SUB00001909	UNIVERSITY OF FLORIDA	(120)	-
U.S. Dept of Agriculture	Pass-through	10.310	101477-18141	UNIVERSITY OF ILLINOIS	108,163	-
U.S. Dept of Agriculture	Pass-through	10.310	FAR0033249	NORTH DAKOTA STATE UNIV	34,239	-
U.S. Dept of Agriculture	Pass-through	10.310	CM00005091-00	RESEARCH FOUNDATION OF CUNY	88,973	-
U.S. Dept of Agriculture	Pass-through	10.310	M2101185	TEXAS A&M AGRILIFE RESEARCH	5,943	-
U.S. Dept of Agriculture	Pass-through	10.310	C0563A-A	OREGON STATE UNIV	80,151	-
U.S. Dept of Agriculture	Pass-through	10.310	SUB00002685	UNIVERSITY OF GEORGIA	47,496	-
U.S. Dept of Agriculture	Pass-through	10.310	0000001773	UNIVERSITY OF WISCONSIN	110,880	-
U.S. Dept of Agriculture	Pass-through	10.310	F0016295202046	PURDUE UNIV	45,288	-
U.S. Dept of Agriculture	Pass-through	10.310	3TG156	SOUTH DAKOTA STATE UNIV	21,899	-
U.S. Dept of Agriculture	Pass-through	10.310	0000001981	UNIVERSITY OF WISCONSIN	68,536	-
U.S. Dept of Agriculture	Pass-through	10.310	024289C	IOWA STATE UNIV	28,296	-
U.S. Dept of Agriculture	Pass-through	10.310	0845 G ZB496	UNIVERSITY OF CALIFORNIA LOS ANGELES	30,889	-
U.S. Dept of Agriculture	Pass-through	10.310	A22-1483-5009	UNIVERSITY OF CALIFORNIA DAVIS	128,975	-
U.S. Dept of Agriculture	Pass-through	10.310	2371-207-2015107	CLEMSON UNIV	62,835	-
U.S. Dept of Agriculture	Pass-through	10.310	SPC-100006728 / GR128452	OHIO STATE UNIV	19,920	-
U.S. Dept of Agriculture	Pass-through	10.310	110491-19241	UNIVERSITY OF ILLINOIS	9,377	-
U.S. Dept of Agriculture	Pass-through	10.328	H00858801	UNIVERSITY OF MINNESOTA	62,087	-
U.S. Dept of Agriculture	Pass-through	10.328	2022-26-45645	CALIFORNIA POLYTECHNIC STATE UNIV FOUNDATION	10,632	-
U.S. Dept of Agriculture	Pass-through	10.329	60078035 GR120330 SPC-100004333	OHIO STATE UNIV	25,632	-
U.S. Dept of Agriculture	Pass-through	10.329	021835A	IOWA STATE UNIV	(6,207)	-
U.S. Dept of Agriculture	Pass-through	10.330	A20-0098-5002	KANSAS STATE UNIV	5,306	-
U.S. Dept of Agriculture	Pass-through	10.332	022840E	IOWA STATE UNIV	3,285	-
U.S. Dept of Agriculture	Pass-through	10.479	E20224204	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	41,604	-
U.S. Dept of Agriculture	Pass-through	10.479	E20234697-00	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	26,001	-
U.S. Dept of Agriculture	Pass-through	10.500	25-8324-0187-310	UNIVERSITY OF NEBRASKA - LINCOLN	33,491	-
U.S. Dept of Agriculture	Pass-through	10.652	95152	THE RESEARCH FOUNDATION FOR THE STATE UNIV OF NEW YORK	2,303	-
U.S. Dept of Agriculture	Pass-through	10.664	FRD-UJP-1013	MICHIGAN DEPT OF NATURAL RESOURCES	78	-
U.S. Dept of Agriculture	Pass-through	10.664	IP# 00555616	ANTRM CONSERVATION DISTRICT	72,975	-
U.S. Dept of Agriculture	Pass-through	10.664	22000000717	MICHIGAN DEPT OF NATURAL RESOURCES	31,818	-
U.S. Dept of Agriculture	Pass-through	10.674	19-CA11420000-301	PENN SOIL RESOURCE CONSERVATION & DEV COUNCIL	40,001	-
U.S. Dept of Agriculture	Pass-through	10.680	FRD-OVS-1010	MICHIGAN DEPT OF NATURAL RESOURCES	(7,095)	-
U.S. Dept of Agriculture	Pass-through	10.707	A22-0601-5001	KANSAS STATE UNIV	27,550	-
U.S. Dept of Agriculture	Pass-through	10.902	C00071985-1 & C00077384-1	UNIVERSITY OF MISSOURI	2,005	-
U.S. Dept of Agriculture	Pass-through	10.902	101917-18194	UNIVERSITY OF ILLINOIS	53,107	-
U.S. Dept of Agriculture	Pass-through	10.912	001	CANDIDU.S. INC	2,510	-
Pass-through Total					6,986,509	-
U.S. Dept of Agriculture Total					36,729,935	10,630,804
U.S. Dept of Commerce	Direct	11.303	ED21CHI0300027	U.S. ECONOMIC DEVELOPMENT ADMINISTRATION	77,862	-
U.S. Dept of Commerce	Direct	11.303	ED21CHI0300027	U.S. ECONOMIC DEVELOPMENT ADMINISTRATION	135,777	-
U.S. Dept of Commerce	Direct	11.420	NA20NOS4200141	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	19,401	-
U.S. Dept of Commerce	Direct	11.609	70NANB17H027	NATIONAL INST OF STANDARDS & TECHNOLOGY	900	-
U.S. Dept of Commerce	Direct	11.609	60NANB18D210	NATIONAL INST OF STANDARDS & TECHNOLOGY	143,061	-
Direct Total					377,001	-
U.S. Dept of Commerce	Pass-through	11.RD	105984-18733	UNIVERSITY OF ILLINOIS	66,803	-
U.S. Dept of Commerce	Pass-through	11.417	3004924655	UNIVERSITY OF MICHIGAN	501,171	-
U.S. Dept of Commerce	Pass-through	11.417	3004924655	UNIVERSITY OF MICHIGAN	18,919	-
U.S. Dept of Commerce	Pass-through	11.417	3004924655	UNIVERSITY OF MICHIGAN	8,553	-
U.S. Dept of Commerce	Pass-through	11.417	SUBK00011683	UNIVERSITY OF MICHIGAN	101,789	-
U.S. Dept of Commerce	Pass-through	11.417	D007941103	UNIVERSITY OF MINNESOTA	16,139	-
U.S. Dept of Commerce	Pass-through	11.417	D007941104	UNIVERSITY OF MINNESOTA DULUTH	4,996	-
U.S. Dept of Commerce	Pass-through	11.417	SUBK00012436	UNIVERSITY OF MICHIGAN	11,552	-
U.S. Dept of Commerce	Pass-through	11.417	SUBK00012246	UNIVERSITY OF MICHIGAN	55,146	-
U.S. Dept of Commerce	Pass-through	11.417	SUBK00013473	UNIVERSITY OF MICHIGAN	6,215	-
U.S. Dept of Commerce	Pass-through	11.417	SUBK00013215	UNIVERSITY OF MICHIGAN	63,153	-
U.S. Dept of Commerce	Pass-through	11.417	SUBK00016475	MICHIGAN SEA GRANT COLLEGE PROGRAM	88,108	-
U.S. Dept of Commerce	Pass-through	11.417	SUBK00016474	UNIVERSITY OF MICHIGAN	168,331	-
U.S. Dept of Commerce	Pass-through	11.417	SUBK00016476	UNIVERSITY OF MICHIGAN	78,195	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Commerce	Pass-through	11.417	SUBK00017276	UNIVERSITY OF MICHIGAN	\$ 70,855	\$ -
U.S. Dept of Commerce	Pass-through	11.417	SUBK00016473	UNIVERSITY OF MICHIGAN	9,541	-
U.S. Dept of Commerce	Pass-through	11.417	NA22OAR170084	UNIVERSITY OF MICHIGAN	79,040	-
U.S. Dept of Commerce	Pass-through	11.417	D010061402	UNIVERSITY OF MINNESOTA DULUTH	3,379	-
U.S. Dept of Commerce	Pass-through	11.417	SUBK00017796	UNIVERSITY OF MICHIGAN	37,285	-
U.S. Dept of Commerce	Pass-through	11.419	21-Resiliency Strategy-005	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	92,147	-
U.S. Dept of Commerce	Pass-through	11.419	2023-309-Technical Toolkit Support	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	25,275	-
U.S. Dept of Commerce	Pass-through	11.431	3003959776	UNIVERSITY OF MICHIGAN	27,537	22,374
U.S. Dept of Commerce	Pass-through	11.431	SUBK00013010	UNIVERSITY OF MICHIGAN	22,467	-
U.S. Dept of Commerce	Pass-through	11.431	SUBK00014894	UNIVERSITY OF MICHIGAN	27,912	-
Pass-through Total					1,584,508	22,374
U.S. Dept of Commerce Total					1,961,509	22,374
U.S. Dept of Defense	Direct	12.RD	FA9453-19-C-0066	AIR FORCE RESEARCH LABORATORY	(8,336)	-
U.S. Dept of Defense	Direct	12.RD	HR00112090131	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	574,624	151,384
U.S. Dept of Defense	Direct	12.RD	140G0122P0024 RE00040558028	U.S. GEOLOGICAL SURVEY	2,275	-
U.S. Dept of Defense	Direct	12.RD	IPA000-21-0-0005	U.S. ARMY CORPS OF ENGINEERS	4,298	-
U.S. Dept of Defense	Direct	12.RD	HQ086022C6004	MISSILE DEFENSE AGENCY	430,098	-
U.S. Dept of Defense	Direct	12.RD	W912HQ22C0069	STRATEGIC ENVIRONMENTAL RESEARCH & DEVELOPMENT PROGRAM	27,185	-
U.S. Dept of Defense	Direct	12.005	W9126G-21-2-0016	U.S. ARMY CORPS OF ENGINEERS	141,274	-
U.S. Dept of Defense	Direct	12.300	N00014-18-1-2032	OFFICE OF NAVAL RESEARCH	5,755	-
U.S. Dept of Defense	Direct	12.300	N00014-18-1-2273	OFFICE OF NAVAL RESEARCH	(9,813)	-
U.S. Dept of Defense	Direct	12.300	N00014-18-1-2597	OFFICE OF NAVAL RESEARCH	(3,030)	-
U.S. Dept of Defense	Direct	12.300	N00014-18-1-2476	OFFICE OF NAVAL RESEARCH	24,176	-
U.S. Dept of Defense	Direct	12.300	N00014-18-1-2535	OFFICE OF NAVAL RESEARCH	28,902	-
U.S. Dept of Defense	Direct	12.300	N00014-20-1-2005	OFFICE OF NAVAL RESEARCH	537,719	103,185
U.S. Dept of Defense	Direct	12.300	N00014-20-1-2739	OFFICE OF NAVAL RESEARCH	197,130	-
U.S. Dept of Defense	Direct	12.300	N00014-20-1-2111	OFFICE OF NAVAL RESEARCH	177,318	-
U.S. Dept of Defense	Direct	12.300	N00014-20-1-2382	OFFICE OF NAVAL RESEARCH	192,211	-
U.S. Dept of Defense	Direct	12.300	N00014-20-1-2471	OFFICE OF NAVAL RESEARCH	74,549	-
U.S. Dept of Defense	Direct	12.300	N00014-20-1-2649	OFFICE OF NAVAL RESEARCH	(52,120)	-
U.S. Dept of Defense	Direct	12.300	N00014-20-1-2681	OFFICE OF NAVAL RESEARCH	187,744	-
U.S. Dept of Defense	Direct	12.300	N00014-20-1-2562	OFFICE OF NAVAL RESEARCH	77,835	-
U.S. Dept of Defense	Direct	12.300	N00014-20-1-2389	OFFICE OF NAVAL RESEARCH	115,228	-
U.S. Dept of Defense	Direct	12.300	N00014-21-1-2273	OFFICE OF NAVAL RESEARCH	173,576	-
U.S. Dept of Defense	Direct	12.300	N00014-21-1-2499	OFFICE OF NAVAL RESEARCH	88,684	-
U.S. Dept of Defense	Direct	12.300	N00014-21-1-2536	OFFICE OF NAVAL RESEARCH	194,934	-
U.S. Dept of Defense	Direct	12.300	N00014-21-1-2686	OFFICE OF NAVAL RESEARCH	55,702	-
U.S. Dept of Defense	Direct	12.300	N00014-21-1-2682	OFFICE OF NAVAL RESEARCH	95,512	-
U.S. Dept of Defense	Direct	12.300	N00014-22-1-2159	OFFICE OF NAVAL RESEARCH	174,065	-
U.S. Dept of Defense	Direct	12.300	N00014-22-1-2143	OFFICE OF NAVAL RESEARCH	39,685	-
U.S. Dept of Defense	Direct	12.300	N00014-22-1-2533	OFFICE OF NAVAL RESEARCH	90,449	-
U.S. Dept of Defense	Direct	12.300	N00014-22-1-2321	OFFICE OF NAVAL RESEARCH	118,219	-
U.S. Dept of Defense	Direct	12.300	N00014-23-1-2046	OFFICE OF NAVAL RESEARCH	124,599	-
U.S. Dept of Defense	Direct	12.351	HD TRA 12110021	DEFENSE THREAT REDUCTION AGENCY	465,562	22,428
U.S. Dept of Defense	Direct	12.420	W81XWH-17-1-0282	U.S. DEPT OF DEFENSE	242,318	56,770
U.S. Dept of Defense	Direct	12.420	W81XWH-17-1-0536	U.S. DEPT OF DEFENSE	6,982	20,150
U.S. Dept of Defense	Direct	12.420	W81XWH1910771	U.S. DEPT OF DEFENSE	85,498	55,381
U.S. Dept of Defense	Direct	12.420	W81XWH2010147	U.S. DEPT OF DEFENSE	16,697	-
U.S. Dept of Defense	Direct	12.420	W81XWH2010174	U.S. DEPT OF THE ARMY	83,736	-
U.S. Dept of Defense	Direct	12.420	W81XWH1810169	U.S. ARMY RESEARCH OFFICE	16,250	63,137
U.S. Dept of Defense	Direct	12.420	W81XWH2110002	U.S. DEPT OF DEFENSE	134,172	-
U.S. Dept of Defense	Direct	12.420	W81XWH2110585	U.S. DEPT OF THE ARMY	247,075	-
U.S. Dept of Defense	Direct	12.420	W81XWH-17-1-0282 PR 0011021491-0001	U.S. DEPT OF THE ARMY	59,692	-
U.S. Dept of Defense	Direct	12.420	W81XWH2210027	U.S. DEPT OF THE ARMY	177,757	-
U.S. Dept of Defense	Direct	12.420	W81XWH2110744	U.S. DEPT OF THE ARMY	222,120	-
U.S. Dept of Defense	Direct	12.420	W81XWH2210804	U.S. DEPT OF THE ARMY	162,579	-
U.S. Dept of Defense	Direct	12.431	W911NF-18-1-0330	U.S. ARMY RESEARCH OFFICE	51,446	-
U.S. Dept of Defense	Direct	12.431	W911NF1910174	U.S. ARMY RESEARCH OFFICE	81,907	-
U.S. Dept of Defense	Direct	12.431	W911NF1910444	U.S. ARMY RESEARCH OFFICE	71,495	-
U.S. Dept of Defense	Direct	12.431	W911NF2010205	U.S. ARMY RESEARCH INST FOR THE BEHAVIORAL & SOCIAL SCIENCES	334,242	-
U.S. Dept of Defense	Direct	12.431	W911NF2110153	U.S. ARMY RESEARCH OFFICE	126,095	-
U.S. Dept of Defense	Direct	12.431	W911NF2110319	U.S. ARMY RESEARCH INST FOR THE BEHAVIORAL & SOCIAL SCIENCES	569,647	-
U.S. Dept of Defense	Direct	12.431	W911NF2210105	U.S. ARMY RESEARCH OFFICE	114,114	-
U.S. Dept of Defense	Direct	12.431	W911NF2210297	U.S. ARMY RESEARCH OFFICE	78,260	-
U.S. Dept of Defense	Direct	12.431	W911NF2220151	U.S. DEPT OF THE ARMY	25,762	-
U.S. Dept of Defense	Direct	12.630	W912H21920021	U.S. ARMY CORPS OF ENGINEERS	116,450	-
U.S. Dept of Defense	Direct	12.630	W911NF2120096	U.S. ARMY RESEARCH INST FOR THE BEHAVIORAL & SOCIAL SCIENCES	57,562	-
U.S. Dept of Defense	Direct	12.800	FA9550-17-1-0394	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	104,592	-
U.S. Dept of Defense	Direct	12.800	FA9550-19-1-0281	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	135,948	-
U.S. Dept of Defense	Direct	12.800	FA9550-20-1-0073	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	147,118	-
U.S. Dept of Defense	Direct	12.800	FA9550-20-1-0175	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	41,528	-
U.S. Dept of Defense	Direct	12.800	FA9550-21-1-0367	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	1,733,089	676,108
U.S. Dept of Defense	Direct	12.800	FA9550-21-1-0428	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	225,634	-
U.S. Dept of Defense	Direct	12.800	FA9550-22-1-0007	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	134,973	-
U.S. Dept of Defense	Direct	12.800	FA9550-22-1-0547	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	91,284	-
U.S. Dept of Defense	Direct	12.800	FA9550-22-1-0523	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	33,135	-
U.S. Dept of Defense	Direct	12.901	H8230-21-1-0025	NATIONAL SECURITY AGENCY	(482)	-
U.S. Dept of Defense	Direct	12.910	W911NF2010018	U.S. ARMY RESEARCH OFFICE	19,933	41,482
U.S. Dept of Defense	Direct	12.910	HR00112010015	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	246,545	133,373
Direct Total					10,341,164	1,323,398
U.S. Dept of Defense	Pass-through	12.RD	715578	BATTELLE MEMORIAL INST	(743)	-
U.S. Dept of Defense	Pass-through	12.RD	19-032	POLARIS SENSOR TECHNOLOGIES INC	41,255	-
U.S. Dept of Defense	Pass-through	12.RD	S904541BAH	BOOZ ALLEN HAMILTON INC	(8,486)	-
U.S. Dept of Defense	Pass-through	12.RD	202062-141037	NATIONAL CENTER FOR MANUFACTURING SCIENCE	46,919	-
U.S. Dept of Defense	Pass-through	12.RD	4201874310	RAYTHEON CO	17,410	-
U.S. Dept of Defense	Pass-through	12.RD	S-200331-004190-MSU	APPLIED RESEARCH ASSOCIATES INC	124,696	-
U.S. Dept of Defense	Pass-through	12.RD	POW 0011-44565	EATON CORP	(3,862)	-
U.S. Dept of Defense	Pass-through	12.RD	LX13000011	KBR	60,677	-
U.S. Dept of Defense	Pass-through	12.RD	DRC. 11389.RR002192.21	RIVERSIDE RESEARCH	70,766	-
U.S. Dept of Defense	Pass-through	12.RD	0011-44786	EATON CORP	3,126	-
U.S. Dept of Defense	Pass-through	12.RD	0000001414	UNIVERSITY OF WISCONSIN MADISON	(2,203)	-
U.S. Dept of Defense	Pass-through	12.RD	UA. 22-0004	UNIVERSITY OF ALASKA	153,352	96,668
U.S. Dept of Defense	Pass-through	12.RD	7006533797	MASSACHUSETTS INST OF TECH LINCOLN LABS	102,456	-
U.S. Dept of Defense	Pass-through	12.RD	W5SRA-22-005-MSU	WRIGHT BROTHERS INST	10,555	-
U.S. Dept of Defense	Pass-through	12.RD	7000534677	MASSACHUSETTS INST OF TECH LINCOLN LABS	118,768	-
U.S. Dept of Defense	Pass-through	12.RD	GR16098	DESERT RESEARCH INST	28,079	-
U.S. Dept of Defense	Pass-through	12.RD	5300042903	NORTHROP GRUMMAN CORP	137,404	-
U.S. Dept of Defense	Pass-through	12.RD	2022-7607	RADIABEAM TECHNOLOGIES INC	116,592	-
U.S. Dept of Defense	Pass-through	12.RD	233816	INFOSCITEX CORPORATION	60,797	-
U.S. Dept of Defense	Pass-through	12.RD	A30466	BOOZ ALLEN HAMILTON INC	367,186	-
U.S. Dept of Defense	Pass-through	12.RD	00551793	AXALUME INC	4,174	-
U.S. Dept of Defense	Pass-through	12.RD	S-D00045-CWMD-115-MSU	APPLIED RESEARCH ASSOCIATES INC	13,820	-
U.S. Dept of Defense	Pass-through	12.RD	E2060281	GEORGE MASON UNIV	62,058	-
U.S. Dept of Defense	Pass-through	12.RD	S-10789.02	ABSS SOLUTIONS INC	3,909	-
U.S. Dept of Defense	Pass-through	12.300	32853-PH4-RB-110891	UNIVERSITY OF MASSACHUSETTS DARTMOUTH	37,136	-
U.S. Dept of Defense	Pass-through	12.300	TUL-HSC-557991-1920	THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND	69,413	-
U.S. Dept of Defense	Pass-through	12.300	P190000323	ELECTRONIC WAREFARE ASSOCIATES INC	(1,664)	-
U.S. Dept of Defense	Pass-through	12.300	AWD00003971(417688-3)	UNIVERSITY OF PITTSBURGH	235,975	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Defense	Pass-through	12.300	705728	UNIVERSITY OF CALIFORNIA SAN DIEGO	\$ 30,579	\$ -
U.S. Dept of Defense	Pass-through	12.351	HDTRA12110026	DEFENSE THREAT REDUCTION AGENCY	583,390	-
U.S. Dept of Defense	Pass-through	12.420	MSUW81XWH-18-1-0150	PENNSYLVANIA STATE UNIV	(258)	-
U.S. Dept of Defense	Pass-through	12.420	121910	BRIGHAM & WOMENS HOSPITAL	30,041	-
U.S. Dept of Defense	Pass-through	12.420	W81XWH18SBAA1	BRAINSCOPE CO INC	15,754	-
U.S. Dept of Defense	Pass-through	12.420	SUB00002317	UNIVERSITY OF GEORGIA RESEARCH FOUNDATION INC	94,543	-
U.S. Dept of Defense	Pass-through	12.420	GENFD0002150381	BOSTON CHILDRENS HOSPITAL	1,436	-
U.S. Dept of Defense	Pass-through	12.420	S-11174-03	THE GENEVA FOUNDATION	44,940	-
U.S. Dept of Defense	Pass-through	12.431	10034220-S1	UNIVERSITY OF UTAH	20,584	-
U.S. Dept of Defense	Pass-through	12.431	SUB0000257	PRINCETON UNIV	27,108	-
U.S. Dept of Defense	Pass-through	12.431	93596-29219202	UNIVERSITY OF MARYLAND	10,873	-
U.S. Dept of Defense	Pass-through	12.431	S001915-A-RO	PENNSYLVANIA STATE UNIV	48,257	-
U.S. Dept of Defense	Pass-through	12.630	ASUB00000846	ARIZONA STATE UNIV	85,043	-
U.S. Dept of Defense	Pass-through	12.630	X03061134	RICE UNIV	124,483	-
U.S. Dept of Defense	Pass-through	12.630	586938	UNIVERSITY OF PENNSYLVANIA	26,190	-
U.S. Dept of Defense	Pass-through	12.800	271704-87D5	UNIVERSITY OF NEW MEXICO	246,357	-
U.S. Dept of Defense	Pass-through	12.910	1300098-029	PURDUE UNIV	62,977	-
U.S. Dept of Defense	Pass-through	12.910	W911NF-21-C-0007-02	TWO SIX LABS	54,893	-
U.S. Dept of Defense	Pass-through	12.910	SUBK00019362	UNIVERSITY OF MICHIGAN	177,983	-
U.S. Dept of Defense	Pass-through	12.910	SUBK00019374	UNIVERSITY OF MICHIGAN	74,021	-
U.S. Dept of Defense	Pass-through	12.910	SUBK00019381	UNIVERSITY OF MICHIGAN	265,664	-
U.S. Dept of Defense	Pass-through	12.910	SUBK00019377	UNIVERSITY OF MICHIGAN	197,164	-
U.S. Dept of Defense	Pass-through	12.910	SUBK00019385	UNIVERSITY OF MICHIGAN	427,142	-
U.S. Dept of Defense	Pass-through	12.910	SUBK00019384	UNIVERSITY OF MICHIGAN	160,067	-
U.S. Dept of Defense	Pass-through	12.910	112646-19457	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	14,118	-
Pass-through Total					4,692,914	96,668
U.S. Dept of Defense Total					15,034,078	1,420,066
U.S. Dept of Housing and Urban Development	Direct	14.506	RP-20-MI-003	U.S. DEPT OF HOUSING & URBAN DEVELOPMENT	65,932	-
U.S. Dept of Housing and Urban Development	Direct	14.902	MILTS0025-21	U.S. DEPT OF HOUSING & URBAN DEVELOPMENT	244,950	-
Direct Total					310,882	-
U.S. Dept of Housing and Urban Development	Pass-through	14.906	S03277-01	UNIVERSITY OF IOWA	25,906	-
Pass-through Total					25,906	-
U.S. Dept of Housing and Urban Development Total					336,788	-
U.S. Dept of Interior	Direct	15.RD	140G0119C0009	U.S. GEOLOGICAL SURVEY	210,319	-
U.S. Dept of Interior	Direct	15.608	F19AP00663	U.S. FISH & WILDLIFE SERVICE	6,660	-
U.S. Dept of Interior	Direct	15.608	F20AC11748-00	U.S. FISH & WILDLIFE SERVICE	1,455	-
U.S. Dept of Interior	Direct	15.608	F20AP10847-00	U.S. FISH & WILDLIFE SERVICE	110,975	-
U.S. Dept of Interior	Direct	15.628	F22AP00580-00	U.S. FISH & WILDLIFE SERVICE	60,876	-
U.S. Dept of Interior	Direct	15.640	F21AC01540-00	U.S. FISH & WILDLIFE SERVICE	6,701	18,292
U.S. Dept of Interior	Direct	15.652	F20AC11089-00	U.S. FISH & WILDLIFE SERVICE	305,004	-
U.S. Dept of Interior	Direct	15.655	F21AC02818-00	U.S. FISH & WILDLIFE SERVICE	52,245	-
U.S. Dept of Interior	Direct	15.657	F19AC00646	U.S. FISH & WILDLIFE SERVICE	27,766	-
U.S. Dept of Interior	Direct	15.657	F22AP01247	U.S. FISH & WILDLIFE SERVICE	91,589	-
U.S. Dept of Interior	Direct	15.657	F22AC01443-00	U.S. FISH & WILDLIFE SERVICE	30,429	-
U.S. Dept of Interior	Direct	15.657	F23AP01239-00	U.S. FISH & WILDLIFE SERVICE	161	-
U.S. Dept of Interior	Direct	15.662	F20AC10391	U.S. FISH & WILDLIFE SERVICE	170,551	33,346
U.S. Dept of Interior	Direct	15.662	F20AC10787-00	U.S. FISH & WILDLIFE SERVICE	17,707	-
U.S. Dept of Interior	Direct	15.662	F18AC00566	U.S. DEPT OF THE INTERIOR	2,627	-
U.S. Dept of Interior	Direct	15.662	F19AC00653	U.S. DEPT OF THE INTERIOR	92,631	65,562
U.S. Dept of Interior	Direct	15.662	F21AC01211-00	U.S. FISH & WILDLIFE SERVICE	175,596	-
U.S. Dept of Interior	Direct	15.662	F21AC01556-00	U.S. FISH & WILDLIFE SERVICE	23,134	-
U.S. Dept of Interior	Direct	15.662	F21AP02401	U.S. FISH & WILDLIFE SERVICE	211,559	-
U.S. Dept of Interior	Direct	15.662	F21AC02286-00	U.S. FISH & WILDLIFE SERVICE	84,794	-
U.S. Dept of Interior	Direct	15.662	F22AC00867-00	U.S. FISH & WILDLIFE SERVICE	10,495	-
U.S. Dept of Interior	Direct	15.662	F23AC00492-00	U.S. FISH & WILDLIFE SERVICE	22,730	-
U.S. Dept of Interior	Direct	15.678	F20AC00228	U.S. DEPT OF THE INTERIOR	57,248	-
U.S. Dept of Interior	Direct	15.805	G21AP10617	U.S. GEOLOGICAL SURVEY	149,002	-
U.S. Dept of Interior	Direct	15.808	G19AC00109	U.S. GEOLOGICAL SURVEY	21,597	-
U.S. Dept of Interior	Direct	15.808	G20AC00275	U.S. GEOLOGICAL SURVEY	89,023	-
U.S. Dept of Interior	Direct	15.808	G21AC00013	U.S. GEOLOGICAL SURVEY	116,263	-
U.S. Dept of Interior	Direct	15.808	G21AC10255	U.S. GEOLOGICAL SURVEY	207,533	-
U.S. Dept of Interior	Direct	15.808	G22AC00244-00	U.S. GEOLOGICAL SURVEY	139,512	-
U.S. Dept of Interior	Direct	15.808	G22AC00203	U.S. GEOLOGICAL SURVEY	46,280	-
U.S. Dept of Interior	Direct	15.945	P21AC10307	NATIONAL PARK SERVICE	7,491	-
U.S. Dept of Interior	Direct	15.945	P22AC00391	NATIONAL PARK SERVICE	12,717	-
U.S. Dept of Interior	Direct	15.945	P22AC01616-00	NATIONAL PARK SERVICE	48,198	-
Direct Total					2,608,868	117,200
U.S. Dept of Interior	Pass-through	15.RD	20000002032	MICHIGAN DEPT OF NATURAL RESOURCES	262,467	-
U.S. Dept of Interior	Pass-through	15.RD	SMS0004461, Task Order 25	KBR	31,544	-
U.S. Dept of Interior	Pass-through	15.RD	DSC21030	STATE OF CALIFORNIA	49,133	-
U.S. Dept of Interior	Pass-through	15.RD	SMS0004461	KBR	49,978	-
U.S. Dept of Interior	Pass-through	15.232	60064793	OHIO STATE UNIV	622	-
U.S. Dept of Interior	Pass-through	15.232	SPC-1000006133GR125647	OHIO STATE UNIV	20,922	-
U.S. Dept of Interior	Pass-through	15.608	FISH2 2021-15, GG 751 21000001674	MICHIGAN DEPT OF NATURAL RESOURCES	8,442	-
U.S. Dept of Interior	Pass-through	15.608	A107212 P115833	THE NATURE CONSERVANCY	1,611	-
U.S. Dept of Interior	Pass-through	15.634	DO 230000005769 DO 220000016731 MA 180000000169	MICHIGAN DEPT OF NATURAL RESOURCES	93,153	-
U.S. Dept of Interior	Pass-through	15.634	FISH 2023-17	MICHIGAN DEPT OF NATURAL RESOURCES	8,183	-
U.S. Dept of Interior	Pass-through	15.657	1	MICHIGAN NATURE ASSOC	84,212	-
U.S. Dept of Interior	Pass-through	15.662	67956-2MSU	ARENAC CONSERVATION DISTRICT	15,826	-
U.S. Dept of Interior	Pass-through	15.662	061121-1	THE NATURE CONSERVANCY	6,254	-
U.S. Dept of Interior	Pass-through	15.662	FY21AP01326 A15	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	4,803	-
U.S. Dept of Interior	Pass-through	15.662	FISH2 2021-20 GG 751210000003503	MICHIGAN DEPT OF NATURAL RESOURCES	9,540	-
U.S. Dept of Interior	Pass-through	15.662	FISH 2022-02	MICHIGAN DEPT OF NATURAL RESOURCES	185,651	-
U.S. Dept of Interior	Pass-through	15.662	FISH2 2022-10	MICHIGAN DEPT OF NATURAL RESOURCES	262,656	-
U.S. Dept of Interior	Pass-through	15.662	MSUP 06068294	ARENAC CONSERVATION DISTRICT	3,647	-
U.S. Dept of Interior	Pass-through	15.662	FISH2 2023-20	MICHIGAN DEPT OF NATURAL RESOURCES	61,894	-
U.S. Dept of Interior	Pass-through	15.670	Project Code FO-EWG-2147	NATIONAL COUNCIL FOR AIR & STREAM IMPROVEMENT	67,999	-
U.S. Dept of Interior	Pass-through	15.670	IP 539337	ASSOC OF FISH & WILDLIFE AGENCIES	19,077	-
U.S. Dept of Interior	Pass-through	15.670	F21AC00316-00	ASSOC OF FISH & WILDLIFE AGENCIES	33,307	-
U.S. Dept of Interior	Pass-through	15.810	0000001817	UNIVERSITY OF WISCONSIN	2,059	-
U.S. Dept of Interior	Pass-through	15.820	Z2-016386-A-00	UNIVERSITY OF MASSACHUSETTS AMHERST	233,633	-
U.S. Dept of Interior	Pass-through	15.820	P009491402	UNIVERSITY OF MINNESOTA	14,987	-
U.S. Dept of Interior	Pass-through	15.820	R010256301	UNIVERSITY OF MINNESOTA	40,455	-
U.S. Dept of Interior	Pass-through	15.946	IP 573912	ASSOC FOR THE STUDY OF AFRICAN AMERICAN LIFE & HISTORY	(7,704)	-
Pass-through Total					1,564,351	-
U.S. Dept of Interior Total					4,173,219	117,200
U.S. Dept of Justice	Direct	16.026	2018-SHAX-0001	U.S. DEPT OF JUSTICE	893	-
U.S. Dept of Justice	Direct	16.550	2020-86-CX-K025	OFFICE OF JUSTICE PROGRAMS	41,818	-
U.S. Dept of Justice	Direct	16.550	15PBJ5-21-CX-00021-BJSB	OFFICE OF JUSTICE PROGRAMS	164,310	-
U.S. Dept of Justice	Direct	16.550	15PBJ5-22-GK-00719-BJSB	OFFICE OF JUSTICE PROGRAMS	20,857	-
U.S. Dept of Justice	Direct	16.560	2018-DU-BX-0225	U.S. DEPT OF JUSTICE	486	48,174
U.S. Dept of Justice	Direct	16.560	2018-75-CX-4030	NATIONAL INST OF JUSTICE	213,299	60,676
U.S. Dept of Justice	Direct	16.560	2019-MU-CX-0094	U.S. DEPT OF JUSTICE	210,744	2,200
U.S. Dept of Justice	Direct	16.560	2020-ZA-CX-0001	NATIONAL INST OF JUSTICE	328,856	33,738
U.S. Dept of Justice	Direct	16.560	2020-75-CX-0012	NATIONAL INST OF JUSTICE	238,824	15,448
U.S. Dept of Justice	Direct	16.560	2020-DQ-BX-0001	OFFICE OF JUSTICE PROGRAMS	49,714	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Justice	Direct	16.560	15PNJ-21-GG-00095-TITL	NATIONAL INST OF JUSTICE	\$ 129,196	\$ -
U.S. Dept of Justice	Direct	16.560	15PNJ-22-GG-03139-RESS	NATIONAL INST OF JUSTICE	21,207	-
U.S. Dept of Justice	Direct	16.710	15JCOPS-22-GK-03551-PPSE	COMMUNITY ORIENTED POLICING SERVICES	59,522	-
U.S. Dept of Justice	Direct	16.738	2016-MU-BX-K001	U.S. DEPT OF JUSTICE	1,250	326,590
Direct Total					1,480,986	486,826
U.S. Dept of Justice	Pass-through	16.RD	09-097CCCC-MSU-2	WEST VIRGINIA UNIV	(15,246)	-
U.S. Dept of Justice	Pass-through	16.RD	6004467	CITY OF DETROIT	58,130	-
U.S. Dept of Justice	Pass-through	16.320	720511-1220-00	NATIONWIDE CHILDRENS HOSPITAL	43,070	-
U.S. Dept of Justice	Pass-through	16.560	SUBK00009848	UNIVERSITY OF MICHIGAN	3,958	-
U.S. Dept of Justice	Pass-through	16.560	CM0000359-00	RESEARCH FOUNDATION OF CUNY	145,844	-
U.S. Dept of Justice	Pass-through	16.560	2367-22A-2015103	CLEMSON UNIV	44,860	-
U.S. Dept of Justice	Pass-through	16.560	UA2022-319	UNIVERSITY OF ARKANSAS	29,329	-
U.S. Dept of Justice	Pass-through	16.575	E20222205-00 G	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	64,150	-
U.S. Dept of Justice	Pass-through	16.582	E20224444-00	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	125,989	-
U.S. Dept of Justice	Pass-through	16.582	E20224445-00	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	(38,390)	-
U.S. Dept of Justice	Pass-through	16.609	2019-GP-BX-0060	SAGNAW COMMUNITY FOUNDATION	4,421	-
U.S. Dept of Justice	Pass-through	16.609	2020-GP-BX-0014	CITY OF JACKSON	26,497	-
U.S. Dept of Justice	Pass-through	16.609	15PBJA-22-GG-00779-GUNP	SAGNAW COMMUNITY FOUNDATION	1,560	-
U.S. Dept of Justice	Pass-through	16.738	BJA-2019-15126	CITY OF SAGNAW	22,242	-
U.S. Dept of Justice	Pass-through	16.738	6002932	CITY OF DETROIT	44,273	-
U.S. Dept of Justice	Pass-through	16.738	JRS48290-002	JUSTICE RESEARCH & STATISTICS ASSOC	80,355	-
U.S. Dept of Justice	Pass-through	16.812	17479-001	DETROIT RESCUE MISSION MINISTRIES	34,528	-
U.S. Dept of Justice	Pass-through	16.817	6003308	CITY OF DETROIT	19,968	-
U.S. Dept of Justice	Pass-through	16.817	6005067	DETROIT POLICE DEPARTMENT	10,825	-
U.S. Dept of Justice	Pass-through	16.825	IPS-O MSU 2018	WAYNE COUNTY PROSECUTOR'S OFFICE	7,559	-
U.S. Dept of Justice	Pass-through	16.833	SAKI-18-001	MICHIGAN STATE POLICE	110,394	-
U.S. Dept of Justice	Pass-through	16.833	SAKI-18-02	MICHIGAN STATE POLICE	172,501	-
U.S. Dept of Justice	Pass-through	16.833	14-312-0217208-67165L	RTINTL	31,431	-
Pass-through Total					1,027,888	-
U.S. Dept of Justice Total					2,508,874	486,826
U.S. Dept of State	Direct	19.RD	19AQMM19P0582	U.S. DEPT OF STATE	91,480	28,086
U.S. Dept of State	Direct	19.RD	19AQMM20P1473	U.S. DEPT OF STATE	84,546	57,830
U.S. Dept of State	Direct	19.RD	19AQMM20P1473	U.S. DEPT OF STATE	7,087	-
U.S. Dept of State	Direct	19.040	SFR63022GR0031	U.S. EMBASSY & CONSULATES IN FRANCE	12,365	-
Direct Total					195,478	85,916
U.S. Dept of State	Pass-through	19.040	45-2402-1031-313	UNIVERSITY OF NEBRASKA OMAHA	3,262	-
U.S. Dept of State	Pass-through	19.040	IP 00577249	AMER COUNCILS FOR INTL EDUCATION	9,009	-
Pass-through Total					12,271	-
U.S. Dept of State Total					207,749	85,916
U.S. Dept of Transportation	Direct	20.724	693JK32050002CAAP	U.S. DEPT OF TRANSPORTATION	113,854	4,714
U.S. Dept of Transportation	Direct	20.724	693JK32050003CAAP	U.S. DEPT OF TRANSPORTATION	65,553	33,142
Direct Total					179,407	37,856
U.S. Dept of Transportation	Pass-through	20.RD	21-57	ENGINEERING AND SOFTWARE CONSULTANTS LLC (ESC)	113,878	-
U.S. Dept of Transportation	Pass-through	20.RD	30900766.00	WSP MICHIGAN INC	35,797	-
U.S. Dept of Transportation	Pass-through	20.RD	TR-797	STATE OF IOWA DEPT OF TRANSPORTATION	27,544	-
U.S. Dept of Transportation	Pass-through	20.RD	SBR-AMPT-23-02	ENGINEERING AND SOFTWARE CONSULTANTS LLC (ESC)	56,734	-
U.S. Dept of Transportation	Pass-through	20.106	3260390672022	GERALD R FORD INTERNATIONAL AIRPORT	29,249	-
U.S. Dept of Transportation	Pass-through	20.200	S-778-00361300-MSU	APPLIED RESEARCH ASSOCIATES INC	10,606	-
U.S. Dept of Transportation	Pass-through	20.200	C00062898-2	UNIVERSITY OF MISSOURI	17,651	-
U.S. Dept of Transportation	Pass-through	20.200	5117688	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	21,445	-
U.S. Dept of Transportation	Pass-through	20.200	NCHRP-238 PO SUB0001815 Unit No. 913	NATIONAL ACADEMY OF SCIENCES	31,455	-
U.S. Dept of Transportation	Pass-through	20.205	TPF-5(438)	STATE OF IOWA DEPT OF TRANSPORTATION	8,165	-
U.S. Dept of Transportation	Pass-through	20.215	436-17-358	IOWA STATE UNIV	1,996	-
U.S. Dept of Transportation	Pass-through	20.215	436-17-358	IOWA STATE UNIV	1,823	-
U.S. Dept of Transportation	Pass-through	20.505	2013-0066-Z10	MICHIGAN DEPT OF TRANSPORTATION	18,809	-
U.S. Dept of Transportation	Pass-through	20.505	2019-0275	MICHIGAN DEPT OF TRANSPORTATION	1,453	-
U.S. Dept of Transportation	Pass-through	20.505	2019-0996	MICHIGAN DEPT OF TRANSPORTATION	68,117	-
U.S. Dept of Transportation	Pass-through	20.505	2019-0997	MICHIGAN DEPT OF TRANSPORTATION	24,382	12,582
U.S. Dept of Transportation	Pass-through	20.505	2019-1007	MICHIGAN DEPT OF TRANSPORTATION	82,804	-
U.S. Dept of Transportation	Pass-through	20.505	2020-0235	MICHIGAN DEPT OF TRANSPORTATION	118,176	56,009
U.S. Dept of Transportation	Pass-through	20.505	2020-0783	MICHIGAN DEPT OF TRANSPORTATION	64,679	-
U.S. Dept of Transportation	Pass-through	20.505	2020-0159	MICHIGAN DEPT OF TRANSPORTATION	36,089	-
U.S. Dept of Transportation	Pass-through	20.505	2021-0207	MICHIGAN DEPT OF TRANSPORTATION	76,517	-
U.S. Dept of Transportation	Pass-through	20.505	2021-0412	MICHIGAN DEPT OF TRANSPORTATION	266,446	9,644
U.S. Dept of Transportation	Pass-through	20.505	2021-0403	MICHIGAN DEPT OF TRANSPORTATION	133,661	31,784
U.S. Dept of Transportation	Pass-through	20.505	2021-0288	MICHIGAN DEPT OF TRANSPORTATION	173,479	38,386
U.S. Dept of Transportation	Pass-through	20.505	2020-0159	MICHIGAN DEPT OF TRANSPORTATION	5,399	-
U.S. Dept of Transportation	Pass-through	20.505	2023-0135	MICHIGAN DEPT OF TRANSPORTATION	2,140	-
U.S. Dept of Transportation	Pass-through	20.505	2023-0155	MICHIGAN DEPT OF TRANSPORTATION	23,062	-
U.S. Dept of Transportation	Pass-through	20.724	04540_MSU	UNIVERSITY OF AKRON	93	-
U.S. Dept of Transportation	Pass-through	20.724	ASUB00000975	ARIZONA STATE UNIV	139,987	-
Pass-through Total					1,591,636	148,405
U.S. Dept of Transportation Total					1,771,043	186,261
U.S. Dept of Treasury	Pass-through	21.019	COVID-19-2020-7501	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	375	-
U.S. Dept of Treasury Total					375	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC17K0259	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	(4,485)	43,441
National Aeronautics and Space Administration	Direct	43.001	80NSSC18K1084	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	(2,586)	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC18K1134	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	6,019	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC19K0302	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	65,616	76,835
National Aeronautics and Space Administration	Direct	43.001	80NSSC19M0132	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	1,046	27,079
National Aeronautics and Space Administration	Direct	43.001	80NSSC20K0263	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	137,757	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC20K0019	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	40,187	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC20K0503	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	93,408	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC20K0411	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	285,115	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC20K0410	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	167,076	53,368
National Aeronautics and Space Administration	Direct	43.001	80NSSC20K0366	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	122,289	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC20K0740	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	166,599	70,222
National Aeronautics and Space Administration	Direct	43.001	80NSSC20K1535	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	(239)	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21K0277	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	(2,881)	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21M0023	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	286,451	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21K0400	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	21,942	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21K0312	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	229,399	41,313
National Aeronautics and Space Administration	Direct	43.001	80NSSC21K0315	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	197,659	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21K0403	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	164,800	32,301
National Aeronautics and Space Administration	Direct	43.001	80NSSC21K0628	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	96,479	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21M0128	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	206,015	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21M0131	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	89,940	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21K0907	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	92,865	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21K1181	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	217,870	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21K1398	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	7,581	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21K1340	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	99,341	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21K1424	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	49,507	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC22K0300	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	135,897	-
National Aeronautics and Space Administration	Direct	43.001	GO1-22085X	CHANDRA SCIENCE CENTER	13,371	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
National Aeronautics and Space Administration	Direct	43.001	80NSSC 22K0476	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	\$ 131,968	\$ -
National Aeronautics and Space Administration	Direct	43.001	80NSSC22K1583	National Aeronautics & Space Administration	28,929	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC22K1363	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	73,736	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC22K1874	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	45,574	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC23K0531	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	33,846	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC23K0497	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	14,198	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC23K0535	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	26,374	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC23K0712	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	4,967	-
National Aeronautics and Space Administration	Direct	43.002	80NSSC21K1122	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	41,961	-
National Aeronautics and Space Administration	Direct	43.002	80NSSC21K1122	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	7,185	-
National Aeronautics and Space Administration	Direct	43.003	80NSSC19K0707	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	66,312	-
National Aeronautics and Space Administration	Direct	43.007	80NSSC22K1727	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	54,307	-
National Aeronautics and Space Administration	Direct	43.012	80NSSC20K1203	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	11,415	-
Direct Total					3,504,810	344,559
National Aeronautics and Space Administration	Pass-through	43.RD	HST-GO-15933.005-A	SPACE TELESCOPE SCIENCE INST	(229)	-
National Aeronautics and Space Administration	Pass-through	43.RD	HST-AR-16160.001-A	SPACE TELESCOPE SCIENCE INST	13,410	-
National Aeronautics and Space Administration	Pass-through	43.RD	PO52316-514242 52316	SPACE TELESCOPE SCIENCE INST	1,346	-
National Aeronautics and Space Administration	Pass-through	43.RD	HST-AR-16613.002-A	SPACE TELESCOPE SCIENCE INST	13,598	-
National Aeronautics and Space Administration	Pass-through	43.RD	HST-GO-16730.018-A	SPACE TELESCOPE SCIENCE INST	436	-
National Aeronautics and Space Administration	Pass-through	43.001	UAF 19-0053	UNIVERSITY OF ALASKA	2,162	-
National Aeronautics and Space Administration	Pass-through	43.001	51072	SPACE TELESCOPE SCIENCE INST	1,658	-
National Aeronautics and Space Administration	Pass-through	43.001	S431505	CALIFORNIA INST OF TECHNOLOGY	4,831	-
National Aeronautics and Space Administration	Pass-through	43.001	GOO-21074X	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	4,658	-
National Aeronautics and Space Administration	Pass-through	43.001	ARO-21008B	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	67	-
National Aeronautics and Space Administration	Pass-through	43.001	GOO-21116X	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	20,230	-
National Aeronautics and Space Administration	Pass-through	43.001	GOO-21114B	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	4,657	-
National Aeronautics and Space Administration	Pass-through	43.001	RSA No. 1645865	JET PROPULSION LABORATORY	(748)	-
National Aeronautics and Space Administration	Pass-through	43.001	GOO-21096X	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	13,399	-
National Aeronautics and Space Administration	Pass-through	43.001	UMS1288	UNIVERSITY OF MAINE	39,854	-
National Aeronautics and Space Administration	Pass-through	43.001	ARI-22011X	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	24,775	-
National Aeronautics and Space Administration	Pass-through	43.001	1659290	JET PROPULSION LABORATORY	312	-
National Aeronautics and Space Administration	Pass-through	43.001	SUB00002617	UNIVERSITY OF GEORGIA	1,648	-
National Aeronautics and Space Administration	Pass-through	43.001	STScl52353	SPACE TELESCOPE SCIENCE INST	48,402	-
National Aeronautics and Space Administration	Pass-through	43.001	G-96654-01	COLORADO STATE UNIV	77,663	-
National Aeronautics and Space Administration	Pass-through	43.001	105678-Z6411201	UNIVERSITY OF MARYLAND	15,086	-
National Aeronautics and Space Administration	Pass-through	43.001	3T2090	SOUTH DAKOTA STATE UNIV	25,471	-
National Aeronautics and Space Administration	Pass-through	43.001	NR5893-691637	UNIVERSITY OF IDAHO	15,086	-
National Aeronautics and Space Administration	Pass-through	43.001	214005-MSU-01	GRAND VALLEY STATE UNIV	90,059	-
National Aeronautics and Space Administration	Pass-through	43.001	GO2-23061X	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	12,582	-
National Aeronautics and Space Administration	Pass-through	43.001	SV1-31002	SMITHSONIAN INSTITUTION	9,646	-
National Aeronautics and Space Administration	Pass-through	43.001	117834-26477201	UNIVERSITY OF MARYLAND	9,975	-
National Aeronautics and Space Administration	Pass-through	43.001	S003479-NASA	PENNSYLVANIA STATE UNIV	20,168	-
National Aeronautics and Space Administration	Pass-through	43.001	119728-Z6491201	UNIVERSITY OF MARYLAND	27,862	-
National Aeronautics and Space Administration	Pass-through	43.008	SUBK00015392	UNIVERSITY OF MICHIGAN	598	-
National Aeronautics and Space Administration	Pass-through	43.008	SUBK00015392	UNIVERSITY OF MICHIGAN	3,000	-
National Aeronautics and Space Administration	Pass-through	43.008	22007-83824-1	TEXAS STATE UNIVERSITY	57,228	-
National Aeronautics and Space Administration	Pass-through	43.008	SUBK00017457	MICHIGAN SPACE GRANT CONSORTIUM	1,504	-
National Aeronautics and Space Administration	Pass-through	43.008	SUBK00017457	MICHIGAN SPACE GRANT CONSORTIUM	683	-
National Aeronautics and Space Administration	Pass-through	43.008	SUBK00017457	MICHIGAN SPACE GRANT CONSORTIUM	5,432	-
National Aeronautics and Space Administration	Pass-through	43.008	SUBK00017457	MICHIGAN SPACE GRANT CONSORTIUM	5,432	-
National Aeronautics and Space Administration	Pass-through	43.008	SUBK00017457	MICHIGAN SPACE GRANT CONSORTIUM	3,046	-
National Aeronautics and Space Administration	Pass-through	43.008	SUBK00017457	MICHIGAN SPACE GRANT CONSORTIUM	3,052	-
National Aeronautics and Space Administration	Pass-through	43.008	SUBK00017457	MICHIGAN SPACE GRANT CONSORTIUM	5,000	-
National Aeronautics and Space Administration	Pass-through	43.008	SUBK00017457	MICHIGAN SPACE GRANT CONSORTIUM	3,850	-
Pass-through Total					586,880	-
National Aeronautics and Space Administration Total					4,091,690	344,559
National Endowment for the Arts and Humanities	Direct	45.312	LG-250059-OLS-21	INST OF MUSEUM & LIBRARY SERVICES	166,006	-
National Endowment for the Arts and Humanities Total					166,006	-
National Science Foundation	Direct	47.000	2150096	NATIONAL SCIENCE FOUNDATION	33,710	-
National Science Foundation	Direct	47.000	ECCS- 2212727	NATIONAL SCIENCE FOUNDATION	104,667	-
National Science Foundation	Direct	47.RD	2209145	NATIONAL SCIENCE FOUNDATION	387,491	-
National Science Foundation	Direct	47.041	1565232	NATIONAL SCIENCE FOUNDATION	(2,372)	-
National Science Foundation	Direct	47.041	1565232	NATIONAL SCIENCE FOUNDATION	4,900	-
National Science Foundation	Direct	47.041	1632051	NATIONAL SCIENCE FOUNDATION	9,757	-
National Science Foundation	Direct	47.041	1639115	NATIONAL SCIENCE FOUNDATION	(47)	5,557
National Science Foundation	Direct	47.041	1651674	NATIONAL SCIENCE FOUNDATION	2,229	-
National Science Foundation	Direct	47.041	1703735	NATIONAL SCIENCE FOUNDATION	23,019	-
National Science Foundation	Direct	47.041	1703735	NATIONAL SCIENCE FOUNDATION	765	-
National Science Foundation	Direct	47.041	1661618	NATIONAL SCIENCE FOUNDATION	(4,928)	-
National Science Foundation	Direct	47.041	1724941	NATIONAL SCIENCE FOUNDATION	(2,378)	-
National Science Foundation	Direct	47.041	ECCS-1751655	NATIONAL SCIENCE FOUNDATION	144,400	-
National Science Foundation	Direct	47.041	1750785	NATIONAL SCIENCE FOUNDATION	140,514	-
National Science Foundation	Direct	47.041	1803695	NATIONAL SCIENCE FOUNDATION	13,647	-
National Science Foundation	Direct	47.041	1802992	NATIONAL SCIENCE FOUNDATION	4,538	-
National Science Foundation	Direct	47.041	1762331	NATIONAL SCIENCE FOUNDATION	(12,423)	-
National Science Foundation	Direct	47.041	1801785	NATIONAL SCIENCE FOUNDATION	6,908	-
National Science Foundation	Direct	47.041	1825678	NATIONAL SCIENCE FOUNDATION	6,848	-
National Science Foundation	Direct	47.041	1808436	NATIONAL SCIENCE FOUNDATION	2,867	-
National Science Foundation	Direct	47.041	1824976	NATIONAL SCIENCE FOUNDATION	29,920	-
National Science Foundation	Direct	47.041	1830269	NATIONAL SCIENCE FOUNDATION	2,072	-
National Science Foundation	Direct	47.041	CBET-1845006	NATIONAL SCIENCE FOUNDATION	86,250	-
National Science Foundation	Direct	47.041	1854750	NATIONAL SCIENCE FOUNDATION	61,423	-
National Science Foundation	Direct	47.041	1825678	NATIONAL SCIENCE FOUNDATION	4,585	-
National Science Foundation	Direct	47.041	1830269	NATIONAL SCIENCE FOUNDATION	2,208	-
National Science Foundation	Direct	47.041	1802992-PSC	NATIONAL SCIENCE FOUNDATION	12,583	-
National Science Foundation	Direct	47.041	1902250	NATIONAL SCIENCE FOUNDATION	113,053	-
National Science Foundation	Direct	47.041	1917577	NATIONAL SCIENCE FOUNDATION	64,422	10,947
National Science Foundation	Direct	47.041	1835768	NATIONAL SCIENCE FOUNDATION	46,459	-
National Science Foundation	Direct	47.041	1947009	NATIONAL SCIENCE FOUNDATION	178,179	-
National Science Foundation	Direct	47.041	1947009	NATIONAL SCIENCE FOUNDATION	7,573	-
National Science Foundation	Direct	47.041	1918074	NATIONAL SCIENCE FOUNDATION	152,447	-
National Science Foundation	Direct	47.041	1936440	NATIONAL SCIENCE FOUNDATION	12,889	22,835
National Science Foundation	Direct	47.041	1923409	NATIONAL SCIENCE FOUNDATION	68,996	-
National Science Foundation	Direct	47.041	1943759	NATIONAL SCIENCE FOUNDATION	83,931	-
National Science Foundation	Direct	47.041	2013093	NATIONAL SCIENCE FOUNDATION	36,707	33,958
National Science Foundation	Direct	47.041	2013161	NATIONAL SCIENCE FOUNDATION	831	37,768
National Science Foundation	Direct	47.041	1943716	NATIONAL SCIENCE FOUNDATION	96,427	-
National Science Foundation	Direct	47.041	1940950	NATIONAL SCIENCE FOUNDATION	146,732	-
National Science Foundation	Direct	47.041	2026717	NATIONAL SCIENCE FOUNDATION	57,941	-
National Science Foundation	Direct	47.041	COVID-19 - 2029319	NATIONAL SCIENCE FOUNDATION	12,417	-
National Science Foundation	Direct	47.041	2015194	NATIONAL SCIENCE FOUNDATION	87,865	-
National Science Foundation	Direct	47.041	2025807	NATIONAL SCIENCE FOUNDATION	16,000	-
National Science Foundation	Direct	47.041	2028474	NATIONAL SCIENCE FOUNDATION	15,907	-
National Science Foundation	Direct	47.041	1950794	NATIONAL SCIENCE FOUNDATION	3,506	-
National Science Foundation	Direct	47.041	1950794	NATIONAL SCIENCE FOUNDATION	109,931	-
National Science Foundation	Direct	47.041	2027113	NATIONAL SCIENCE FOUNDATION	108,866	21,362
National Science Foundation	Direct	47.041	2030411	NATIONAL SCIENCE FOUNDATION	142,945	-
National Science Foundation	Direct	47.041	2024649	NATIONAL SCIENCE FOUNDATION	388,085	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
National Science Foundation	Direct	47.041	2030556	NATIONAL SCIENCE FOUNDATION	\$ 143,201	\$ -
National Science Foundation	Direct	47.041	2024270	NATIONAL SCIENCE FOUNDATION	82,009	-
National Science Foundation	Direct	47.041	2019320	NATIONAL SCIENCE FOUNDATION	90,723	-
National Science Foundation	Direct	47.041	2029374	NATIONAL SCIENCE FOUNDATION	394,439	-
National Science Foundation	Direct	47.041	2028736	NATIONAL SCIENCE FOUNDATION	55,125	-
National Science Foundation	Direct	47.041	2036737	NATIONAL SCIENCE FOUNDATION	135,725	236,287
National Science Foundation	Direct	47.041	2032709	NATIONAL SCIENCE FOUNDATION	101,277	-
National Science Foundation	Direct	47.041	1825678	NATIONAL SCIENCE FOUNDATION	24,001	-
National Science Foundation	Direct	47.041	2025959	NATIONAL SCIENCE FOUNDATION	22,747	-
National Science Foundation	Direct	47.041	2043464	NATIONAL SCIENCE FOUNDATION	76,077	-
National Science Foundation	Direct	47.041	2046374	NATIONAL SCIENCE FOUNDATION	60,337	-
National Science Foundation	Direct	47.041	2044986	NATIONAL SCIENCE FOUNDATION	232,261	-
National Science Foundation	Direct	47.041	2045775	NATIONAL SCIENCE FOUNDATION	86,592	-
National Science Foundation	Direct	47.041	2045436	NATIONAL SCIENCE FOUNDATION	107,657	-
National Science Foundation	Direct	47.041	2026717	NATIONAL SCIENCE FOUNDATION	7,843	-
National Science Foundation	Direct	47.041	1943759	NATIONAL SCIENCE FOUNDATION	1,033	-
National Science Foundation	Direct	47.041	2044877	NATIONAL SCIENCE FOUNDATION	166,522	-
National Science Foundation	Direct	47.041	1854750	NATIONAL SCIENCE FOUNDATION	22,110	-
National Science Foundation	Direct	47.041	1651674	NATIONAL SCIENCE FOUNDATION	361	-
National Science Foundation	Direct	47.041	1947009	NATIONAL SCIENCE FOUNDATION	16,083	-
National Science Foundation	Direct	47.041	2036737	NATIONAL SCIENCE FOUNDATION	14,563	-
National Science Foundation	Direct	47.041	2044254	NATIONAL SCIENCE FOUNDATION	185,980	-
National Science Foundation	Direct	47.041	2129228	NATIONAL SCIENCE FOUNDATION	95,052	-
National Science Foundation	Direct	47.041	2055068	NATIONAL SCIENCE FOUNDATION	98,152	-
National Science Foundation	Direct	47.041	2102015	NATIONAL SCIENCE FOUNDATION	52,125	-
National Science Foundation	Direct	47.041	2129229	NATIONAL SCIENCE FOUNDATION	33,448	-
National Science Foundation	Direct	47.041	2122681	NATIONAL SCIENCE FOUNDATION	190,836	-
National Science Foundation	Direct	47.041	2122681	NATIONAL SCIENCE FOUNDATION	26,432	-
National Science Foundation	Direct	47.041	2127495	NATIONAL SCIENCE FOUNDATION	107,192	-
National Science Foundation	Direct	47.041	2044254	NATIONAL SCIENCE FOUNDATION	9,561	-
National Science Foundation	Direct	47.041	2144468	NATIONAL SCIENCE FOUNDATION	110,399	-
National Science Foundation	Direct	47.041	1947009	NATIONAL SCIENCE FOUNDATION	7,535	-
National Science Foundation	Direct	47.041	2142846	NATIONAL SCIENCE FOUNDATION	121,565	-
National Science Foundation	Direct	47.041	2144138	NATIONAL SCIENCE FOUNDATION	23,680	-
National Science Foundation	Direct	47.041	1762331	NATIONAL SCIENCE FOUNDATION	3,840	-
National Science Foundation	Direct	47.041	2208697	NATIONAL SCIENCE FOUNDATION	128,167	-
National Science Foundation	Direct	47.041	2202686	NATIONAL SCIENCE FOUNDATION	14,946	-
National Science Foundation	Direct	47.041	2214872	NATIONAL SCIENCE FOUNDATION	38,505	-
National Science Foundation	Direct	47.041	2204959	NATIONAL SCIENCE FOUNDATION	10,252	-
National Science Foundation	Direct	47.041	2200991	NATIONAL SCIENCE FOUNDATION	114,659	-
National Science Foundation	Direct	47.041	2148646	NATIONAL SCIENCE FOUNDATION	86,067	-
National Science Foundation	Direct	47.041	2222635	NATIONAL SCIENCE FOUNDATION	25,796	-
National Science Foundation	Direct	47.041	2225337	NATIONAL SCIENCE FOUNDATION	10,761	-
National Science Foundation	Direct	47.041	2241487	NATIONAL SCIENCE FOUNDATION	17,814	-
National Science Foundation	Direct	47.041	2238686	NATIONAL SCIENCE FOUNDATION	65,194	-
National Science Foundation	Direct	47.041	2226500	NATIONAL SCIENCE FOUNDATION	38,551	-
National Science Foundation	Direct	47.041	2236537	NATIONAL SCIENCE FOUNDATION	4,955	-
National Science Foundation	Direct	47.041	2015194	NATIONAL SCIENCE FOUNDATION	657	-
National Science Foundation	Direct	47.041	2241062	NATIONAL SCIENCE FOUNDATION	26,709	-
National Science Foundation	Direct	47.041	2237142	NATIONAL SCIENCE FOUNDATION	10,233	-
National Science Foundation	Direct	47.041	2222066	NATIONAL SCIENCE FOUNDATION	2,185	-
National Science Foundation	Direct	47.049	PHY-1430152	NATIONAL SCIENCE FOUNDATION	574,374	665,584
National Science Foundation	Direct	47.049	PHY-1430152	NATIONAL SCIENCE FOUNDATION	25,346	-
National Science Foundation	Direct	47.049	1554315	NATIONAL SCIENCE FOUNDATION	46,330	-
National Science Foundation	Direct	47.049	1559866	NATIONAL SCIENCE FOUNDATION	(613)	-
National Science Foundation	Direct	47.049	1559866	NATIONAL SCIENCE FOUNDATION	52,584	-
National Science Foundation	Direct	47.049	PHY-1565546	NATIONAL SCIENCE FOUNDATION	(604,962)	29,747
National Science Foundation	Direct	47.049	1607942	NATIONAL SCIENCE FOUNDATION	55,750	-
National Science Foundation	Direct	47.049	1625181	NATIONAL SCIENCE FOUNDATION	20,319	-
National Science Foundation	Direct	47.049	1654610	NATIONAL SCIENCE FOUNDATION	102,404	-
National Science Foundation	Direct	47.049	1702115	NATIONAL SCIENCE FOUNDATION	(2,508)	-
National Science Foundation	Direct	47.049	1799016	NATIONAL SCIENCE FOUNDATION	206	-
National Science Foundation	Direct	47.049	1564923	NATIONAL SCIENCE FOUNDATION	(685)	-
National Science Foundation	Direct	47.049	1719406	NATIONAL SCIENCE FOUNDATION	10,000	-
National Science Foundation	Direct	47.049	1713901	NATIONAL SCIENCE FOUNDATION	(181)	-
National Science Foundation	Direct	47.049	1653405	NATIONAL SCIENCE FOUNDATION	(534)	-
National Science Foundation	Direct	47.049	1715178	NATIONAL SCIENCE FOUNDATION	(870)	-
National Science Foundation	Direct	47.049	1751874	NATIONAL SCIENCE FOUNDATION	3,507	-
National Science Foundation	Direct	47.049	1810575	NATIONAL SCIENCE FOUNDATION	(143)	-
National Science Foundation	Direct	47.049	1761320	NATIONAL SCIENCE FOUNDATION	4,746	-
National Science Foundation	Direct	47.049	1807573	NATIONAL SCIENCE FOUNDATION	57,748	-
National Science Foundation	Direct	47.049	1653405	NATIONAL SCIENCE FOUNDATION	7,568	-
National Science Foundation	Direct	47.049	1807073	NATIONAL SCIENCE FOUNDATION	(77)	-
National Science Foundation	Direct	47.049	1763371	NATIONAL SCIENCE FOUNDATION	(20,413)	-
National Science Foundation	Direct	47.049	1803719	NATIONAL SCIENCE FOUNDATION	(63)	-
National Science Foundation	Direct	47.049	1836498	NATIONAL SCIENCE FOUNDATION	(3,798)	-
National Science Foundation	Direct	47.049	1813203	NATIONAL SCIENCE FOUNDATION	38,227	-
National Science Foundation	Direct	47.049	1813203	NATIONAL SCIENCE FOUNDATION	3,551	-
National Science Foundation	Direct	47.049	1806473	NATIONAL SCIENCE FOUNDATION	82,390	120,176
National Science Foundation	Direct	47.049	1761320	NATIONAL SCIENCE FOUNDATION	168,070	-
National Science Foundation	Direct	47.049	1761320	NATIONAL SCIENCE FOUNDATION	19,801	-
National Science Foundation	Direct	47.049	1812838	NATIONAL SCIENCE FOUNDATION	1,929	-
National Science Foundation	Direct	47.049	1812332	NATIONAL SCIENCE FOUNDATION	56,161	-
National Science Foundation	Direct	47.049	1851776	NATIONAL SCIENCE FOUNDATION	7,164	-
National Science Foundation	Direct	47.049	1851776	NATIONAL SCIENCE FOUNDATION	15,413	-
National Science Foundation	Direct	47.049	DMS - 1852066	NATIONAL SCIENCE FOUNDATION	(3,003)	-
National Science Foundation	Direct	47.049	DMS - 1852066	NATIONAL SCIENCE FOUNDATION	31,954	-
National Science Foundation	Direct	47.049	1846114	NATIONAL SCIENCE FOUNDATION	58,242	-
National Science Foundation	Direct	47.049	1845416	NATIONAL SCIENCE FOUNDATION	92,357	-
National Science Foundation	Direct	47.049	1845956	NATIONAL SCIENCE FOUNDATION	(19,268)	-
National Science Foundation	Direct	47.049	1855185	NATIONAL SCIENCE FOUNDATION	84,845	-
National Science Foundation	Direct	47.049	1856683	NATIONAL SCIENCE FOUNDATION	80,459	-
National Science Foundation	Direct	47.049	1900268	NATIONAL SCIENCE FOUNDATION	65,347	-
National Science Foundation	Direct	47.049	1912799	NATIONAL SCIENCE FOUNDATION	9,479	-
National Science Foundation	Direct	47.049	1912706	NATIONAL SCIENCE FOUNDATION	15,462	-
National Science Foundation	Direct	47.049	CHE-1900086	NATIONAL SCIENCE FOUNDATION	155,840	-
National Science Foundation	Direct	47.049	1904295	NATIONAL SCIENCE FOUNDATION	30,483	-
National Science Foundation	Direct	47.049	1901867	NATIONAL SCIENCE FOUNDATION	36,259	-
National Science Foundation	Direct	47.049	1900015	NATIONAL SCIENCE FOUNDATION	182	-
National Science Foundation	Direct	47.049	DMS-1907221	NATIONAL SCIENCE FOUNDATION	(109)	-
National Science Foundation	Direct	47.049	1904655	NATIONAL SCIENCE FOUNDATION	37,904	-
National Science Foundation	Direct	47.049	DMS-1924724	NATIONAL SCIENCE FOUNDATION	237,745	-
National Science Foundation	Direct	47.049	1913011	NATIONAL SCIENCE FOUNDATION	76,030	-
National Science Foundation	Direct	47.049	CHE-1900399	NATIONAL SCIENCE FOUNDATION	19,505	-
National Science Foundation	Direct	47.049	1908109	NATIONAL SCIENCE FOUNDATION	36,159	-
National Science Foundation	Direct	47.049	1916339	NATIONAL SCIENCE FOUNDATION	53,924	-
National Science Foundation	Direct	47.049	1916395	NATIONAL SCIENCE FOUNDATION	27,002	-
National Science Foundation	Direct	47.049	1907898	NATIONAL SCIENCE FOUNDATION	59,426	-
National Science Foundation	Direct	47.049	1915099	NATIONAL SCIENCE FOUNDATION	21,966	-

Schedule of Expenditures of Federal Awards

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Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
National Science Foundation	Direct	47.049	DMS-1924724	NATIONAL SCIENCE FOUNDATION	\$ 11,349	\$ -
National Science Foundation	Direct	47.049	1923201	NATIONAL SCIENCE FOUNDATION	57,431	-
National Science Foundation	Direct	47.049	1912183	NATIONAL SCIENCE FOUNDATION	109,425	-
National Science Foundation	Direct	47.049	1913554	NATIONAL SCIENCE FOUNDATION	1,383,908	-
National Science Foundation	Direct	47.049	1913554	NATIONAL SCIENCE FOUNDATION	9,044	-
National Science Foundation	Direct	47.049	1913287	NATIONAL SCIENCE FOUNDATION	31,013	-
National Science Foundation	Direct	47.049	2000131	NATIONAL SCIENCE FOUNDATION	2,092	-
National Science Foundation	Direct	47.049	1955304	NATIONAL SCIENCE FOUNDATION	5,151	-
National Science Foundation	Direct	47.049	2001205	NATIONAL SCIENCE FOUNDATION	83,738	-
National Science Foundation	Direct	47.049	1953254	NATIONAL SCIENCE FOUNDATION	82,909	-
National Science Foundation	Direct	47.049	2003815	NATIONAL SCIENCE FOUNDATION	167,026	-
National Science Foundation	Direct	47.049	2004155	NATIONAL SCIENCE FOUNDATION	108,142	-
National Science Foundation	Direct	47.049	2008891	NATIONAL SCIENCE FOUNDATION	91,475	-
National Science Foundation	Direct	47.049	1952856	NATIONAL SCIENCE FOUNDATION	27,431	-
National Science Foundation	Direct	47.049	2012165	NATIONAL SCIENCE FOUNDATION	804,030	-
National Science Foundation	Direct	47.049	2000128	NATIONAL SCIENCE FOUNDATION	49,385	-
National Science Foundation	Direct	47.049	2000128 PSC	NATIONAL SCIENCE FOUNDATION	5,208	-
National Science Foundation	Direct	47.049	1845416	NATIONAL SCIENCE FOUNDATION	1,210	-
National Science Foundation	Direct	47.049	2013047	NATIONAL SCIENCE FOUNDATION	299,867	-
National Science Foundation	Direct	47.049	2012046	NATIONAL SCIENCE FOUNDATION	77,003	-
National Science Foundation	Direct	47.049	2008004	NATIONAL SCIENCE FOUNDATION	171,786	-
National Science Foundation	Direct	47.049	2012040	NATIONAL SCIENCE FOUNDATION	1,932,909	-
National Science Foundation	Direct	47.049	2012040	NATIONAL SCIENCE FOUNDATION	119,037	-
National Science Foundation	Direct	47.049	2013065	NATIONAL SCIENCE FOUNDATION	5,000	-
National Science Foundation	Direct	47.049	2017985	NATIONAL SCIENCE FOUNDATION	209,055	-
National Science Foundation	Direct	47.049	2012439	NATIONAL SCIENCE FOUNDATION	7,592	-
National Science Foundation	Direct	47.049	2011838	NATIONAL SCIENCE FOUNDATION	55,724	-
National Science Foundation	Direct	47.049	2013791	NATIONAL SCIENCE FOUNDATION	126,644	-
National Science Foundation	Direct	47.049	2013859	NATIONAL SCIENCE FOUNDATION	112,623	-
National Science Foundation	Direct	47.049	2045122	NATIONAL SCIENCE FOUNDATION	151,912	-
National Science Foundation	Direct	47.049	2050733	NATIONAL SCIENCE FOUNDATION	95,525	-
National Science Foundation	Direct	47.049	2100743	NATIONAL SCIENCE FOUNDATION	82,438	-
National Science Foundation	Direct	47.049	2052983	NATIONAL SCIENCE FOUNDATION	73,941	-
National Science Foundation	Direct	47.049	2052519	NATIONAL SCIENCE FOUNDATION	7,801	-
National Science Foundation	Direct	47.049	2104233	NATIONAL SCIENCE FOUNDATION	26,556	-
National Science Foundation	Direct	47.049	2112691	NATIONAL SCIENCE FOUNDATION	69,259	-
National Science Foundation	Direct	47.049	2052042	NATIONAL SCIENCE FOUNDATION	95,624	-
National Science Foundation	Direct	47.049	2106472	NATIONAL SCIENCE FOUNDATION	59,243	-
National Science Foundation	Direct	47.049	2110981	NATIONAL SCIENCE FOUNDATION	59,711	-
National Science Foundation	Direct	47.049	2106799	NATIONAL SCIENCE FOUNDATION	90,028	-
National Science Foundation	Direct	47.049	1653405	NATIONAL SCIENCE FOUNDATION	39,530	-
National Science Foundation	Direct	47.049	1836498	NATIONAL SCIENCE FOUNDATION	(13,928)	-
National Science Foundation	Direct	47.049	1709016	NATIONAL SCIENCE FOUNDATION	21,129	-
National Science Foundation	Direct	47.049	2101761	NATIONAL SCIENCE FOUNDATION	34,609	-
National Science Foundation	Direct	47.049	2113407	NATIONAL SCIENCE FOUNDATION	73,088	-
National Science Foundation	Direct	47.049	2111185	NATIONAL SCIENCE FOUNDATION	1,345,279	-
National Science Foundation	Direct	47.049	2107070	NATIONAL SCIENCE FOUNDATION	216,056	-
National Science Foundation	Direct	47.049	2104664	NATIONAL SCIENCE FOUNDATION	109,355	-
National Science Foundation	Direct	47.049	2107155	NATIONAL SCIENCE FOUNDATION	150,419	-
National Science Foundation	Direct	47.049	2100791	NATIONAL SCIENCE FOUNDATION	92,250	-
National Science Foundation	Direct	47.049	2118463	NATIONAL SCIENCE FOUNDATION	96,487	-
National Science Foundation	Direct	47.049	2111251	NATIONAL SCIENCE FOUNDATION	45,966	-
National Science Foundation	Direct	47.049	2106575	NATIONAL SCIENCE FOUNDATION	101,730	-
National Science Foundation	Direct	47.049	2111226	NATIONAL SCIENCE FOUNDATION	197,808	-
National Science Foundation	Direct	47.049	2050733	NATIONAL SCIENCE FOUNDATION	20,767	-
National Science Foundation	Direct	47.049	2108505	NATIONAL SCIENCE FOUNDATION	232,012	-
National Science Foundation	Direct	47.049	2110365	NATIONAL SCIENCE FOUNDATION	129,164	-
National Science Foundation	Direct	47.049	2142866	NATIONAL SCIENCE FOUNDATION	95,524	-
National Science Foundation	Direct	47.049	2143739	NATIONAL SCIENCE FOUNDATION	62,319	-
National Science Foundation	Direct	47.049	2143739	NATIONAL SCIENCE FOUNDATION	3,994	-
National Science Foundation	Direct	47.049	2150173	NATIONAL SCIENCE FOUNDATION	27,531	-
National Science Foundation	Direct	47.049	2150173	NATIONAL SCIENCE FOUNDATION	133,194	-
National Science Foundation	Direct	47.049	2210286	NATIONAL SCIENCE FOUNDATION	99,877	-
National Science Foundation	Direct	47.049	2211573	NATIONAL SCIENCE FOUNDATION	37,887	-
National Science Foundation	Direct	47.049	2153946	NATIONAL SCIENCE FOUNDATION	153,331	-
National Science Foundation	Direct	47.049	2154233	NATIONAL SCIENCE FOUNDATION	178,976	-
National Science Foundation	Direct	47.049	2154402	NATIONAL SCIENCE FOUNDATION	50,587	-
National Science Foundation	Direct	47.049	2154408	NATIONAL SCIENCE FOUNDATION	38,967	-
National Science Foundation	Direct	47.049	2153846	NATIONAL SCIENCE FOUNDATION	50,744	-
National Science Foundation	Direct	47.049	2154028	NATIONAL SCIENCE FOUNDATION	107,646	-
National Science Foundation	Direct	47.049	2210505	NATIONAL SCIENCE FOUNDATION	15,091	-
National Science Foundation	Direct	47.049	2154923	NATIONAL SCIENCE FOUNDATION	82,584	-
National Science Foundation	Direct	47.049	2135960	NATIONAL SCIENCE FOUNDATION	78,742	-
National Science Foundation	Direct	47.049	2135960	NATIONAL SCIENCE FOUNDATION	102,954	-
National Science Foundation	Direct	47.049	2209424	NATIONAL SCIENCE FOUNDATION	21,527	-
National Science Foundation	Direct	47.049	2208800	NATIONAL SCIENCE FOUNDATION	52,544	-
National Science Foundation	Direct	47.049	2152011	NATIONAL SCIENCE FOUNDATION	5,062	-
National Science Foundation	Direct	47.049	2154526	NATIONAL SCIENCE FOUNDATION	62,243	-
National Science Foundation	Direct	47.049	2106575	NATIONAL SCIENCE FOUNDATION	9,949	-
National Science Foundation	Direct	47.049	2209717	NATIONAL SCIENCE FOUNDATION	257,269	-
National Science Foundation	Direct	47.049	2230405	NATIONAL SCIENCE FOUNDATION	9,645	-
National Science Foundation	Direct	47.049	2152011	NATIONAL SCIENCE FOUNDATION	13,993	-
National Science Foundation	Direct	47.049	2204722	NATIONAL SCIENCE FOUNDATION	38,869	-
National Science Foundation	Direct	47.049	2200738	NATIONAL SCIENCE FOUNDATION	29,335	-
National Science Foundation	Direct	47.049	2208818	NATIONAL SCIENCE FOUNDATION	5,000	-
National Science Foundation	Direct	47.049	2205553	NATIONAL SCIENCE FOUNDATION	28,918	-
National Science Foundation	Direct	47.049	2205553	NATIONAL SCIENCE FOUNDATION	1,389	-
National Science Foundation	Direct	47.049	2209424	NATIONAL SCIENCE FOUNDATION	86,923	-
National Science Foundation	Direct	47.049	2203472	NATIONAL SCIENCE FOUNDATION	126,320	-
National Science Foundation	Direct	47.049	2203577	NATIONAL SCIENCE FOUNDATION	42,450	-
National Science Foundation	Direct	47.049	2209419	NATIONAL SCIENCE FOUNDATION	117,205	-
National Science Foundation	Direct	47.049	2205550	NATIONAL SCIENCE FOUNDATION	1,258	-
National Science Foundation	Direct	47.049	2209429	NATIONAL SCIENCE FOUNDATION	1,334,344	-
National Science Foundation	Direct	47.049	2209429	NATIONAL SCIENCE FOUNDATION	7,175	-
National Science Foundation	Direct	47.049	2203828	NATIONAL SCIENCE FOUNDATION	24,462	-
National Science Foundation	Direct	47.049	2206523	NATIONAL SCIENCE FOUNDATION	4,095	-
National Science Foundation	Direct	47.049	2210228	NATIONAL SCIENCE FOUNDATION	155,392	-
National Science Foundation	Direct	47.049	2303206	NATIONAL SCIENCE FOUNDATION	48,691	-
National Science Foundation	Direct	47.049	2321493	NATIONAL SCIENCE FOUNDATION	28,486	-
National Science Foundation	Direct	47.049	2247047	NATIONAL SCIENCE FOUNDATION	21,723	-
National Science Foundation	Direct	47.049	2237581	NATIONAL SCIENCE FOUNDATION	8,243	-
National Science Foundation	Direct	47.050	1443165	NATIONAL SCIENCE FOUNDATION	32,808	-
National Science Foundation	Direct	47.050	1620509	NATIONAL SCIENCE FOUNDATION	9,830	-
National Science Foundation	Direct	47.050	1664332	NATIONAL SCIENCE FOUNDATION	1	-
National Science Foundation	Direct	47.050	1722623	NATIONAL SCIENCE FOUNDATION	(5,136)	-
National Science Foundation	Direct	47.050	1751664	NATIONAL SCIENCE FOUNDATION	109,400	-
National Science Foundation	Direct	47.050	1752729	NATIONAL SCIENCE FOUNDATION	80,110	-
National Science Foundation	Direct	47.050	1802247	NATIONAL SCIENCE FOUNDATION	23,485	-
National Science Foundation	Direct	47.050	OCE 1829406	NATIONAL SCIENCE FOUNDATION	111,144	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
National Science Foundation	Direct	47.050	1846855	NATIONAL SCIENCE FOUNDATION	\$ 38,416	\$ -
National Science Foundation	Direct	47.050	1850606	NATIONAL SCIENCE FOUNDATION	132,009	-
National Science Foundation	Direct	47.050	1916567	NATIONAL SCIENCE FOUNDATION	110,782	-
National Science Foundation	Direct	47.050	1950101	NATIONAL SCIENCE FOUNDATION	39,387	5,144
National Science Foundation	Direct	47.050	1943784	NATIONAL SCIENCE FOUNDATION	1,133	-
National Science Foundation	Direct	47.050	1943784	NATIONAL SCIENCE FOUNDATION	4,834	-
National Science Foundation	Direct	47.050	1939979	NATIONAL SCIENCE FOUNDATION	47,688	-
National Science Foundation	Direct	47.050	1923218	NATIONAL SCIENCE FOUNDATION	116,810	-
National Science Foundation	Direct	47.050	1942431	NATIONAL SCIENCE FOUNDATION	101,434	-
National Science Foundation	Direct	47.050	1928946	NATIONAL SCIENCE FOUNDATION	9,897	-
National Science Foundation	Direct	47.050	2033891	NATIONAL SCIENCE FOUNDATION	97,156	-
National Science Foundation	Direct	47.050	2023059	NATIONAL SCIENCE FOUNDATION	78,225	-
National Science Foundation	Direct	47.050	2023059	NATIONAL SCIENCE FOUNDATION	24,163	-
National Science Foundation	Direct	47.050	2035816	NATIONAL SCIENCE FOUNDATION	(1)	-
National Science Foundation	Direct	47.050	2031331	NATIONAL SCIENCE FOUNDATION	12,909	-
National Science Foundation	Direct	47.050	2052558	NATIONAL SCIENCE FOUNDATION	78,298	-
National Science Foundation	Direct	47.050	2126568	NATIONAL SCIENCE FOUNDATION	130,019	-
National Science Foundation	Direct	47.050	2103030	NATIONAL SCIENCE FOUNDATION	77,933	-
National Science Foundation	Direct	47.050	2147422	NATIONAL SCIENCE FOUNDATION	57,680	-
National Science Foundation	Direct	47.050	2042553	NATIONAL SCIENCE FOUNDATION	109,139	-
National Science Foundation	Direct	47.050	2137818	NATIONAL SCIENCE FOUNDATION	31,758	-
National Science Foundation	Direct	47.050	2127643	NATIONAL SCIENCE FOUNDATION	105,791	-
National Science Foundation	Direct	47.050	2127220	NATIONAL SCIENCE FOUNDATION	89,891	-
National Science Foundation	Direct	47.050	2127643	NATIONAL SCIENCE FOUNDATION	106,366	-
National Science Foundation	Direct	47.050	2152253	NATIONAL SCIENCE FOUNDATION	92,981	-
National Science Foundation	Direct	47.050	1923218	NATIONAL SCIENCE FOUNDATION	17,833	-
National Science Foundation	Direct	47.050	2039961	NATIONAL SCIENCE FOUNDATION	19,010	-
National Science Foundation	Direct	47.050	2147905	NATIONAL SCIENCE FOUNDATION	58,194	-
National Science Foundation	Direct	47.050	2218028	NATIONAL SCIENCE FOUNDATION	75,280	-
National Science Foundation	Direct	47.050	2220518	NATIONAL SCIENCE FOUNDATION	3,964	-
National Science Foundation	Direct	47.050	2220236	NATIONAL SCIENCE FOUNDATION	119,466	-
National Science Foundation	Direct	47.070	HS-1452479	NATIONAL SCIENCE FOUNDATION	8,154	-
National Science Foundation	Direct	47.070	1645783	NATIONAL SCIENCE FOUNDATION	9,557	-
National Science Foundation	Direct	47.070	1622659	NATIONAL SCIENCE FOUNDATION	25,855	-
National Science Foundation	Direct	47.070	1730137	NATIONAL SCIENCE FOUNDATION	58,018	-
National Science Foundation	Direct	47.070	1738677	NATIONAL SCIENCE FOUNDATION	73,230	21,741
National Science Foundation	Direct	47.070	1738677	NATIONAL SCIENCE FOUNDATION	11,250	-
National Science Foundation	Direct	47.070	1749018	NATIONAL SCIENCE FOUNDATION	73,221	-
National Science Foundation	Direct	47.070	1749940	NATIONAL SCIENCE FOUNDATION	97,229	-
National Science Foundation	Direct	47.070	1835426	NATIONAL SCIENCE FOUNDATION	39,570	-
National Science Foundation	Direct	47.070	1814551	NATIONAL SCIENCE FOUNDATION	44,264	-
National Science Foundation	Direct	47.070	1815636	NATIONAL SCIENCE FOUNDATION	66,496	-
National Science Foundation	Direct	47.070	1807622	NATIONAL SCIENCE FOUNDATION	4,545	-
National Science Foundation	Direct	47.070	1822932	NATIONAL SCIENCE FOUNDATION	46,665	-
National Science Foundation	Direct	47.070	1835267	NATIONAL SCIENCE FOUNDATION	79,785	-
National Science Foundation	Direct	47.070	1845208	NATIONAL SCIENCE FOUNDATION	106,819	-
National Science Foundation	Direct	47.070	1854985	NATIONAL SCIENCE FOUNDATION	76,094	-
National Science Foundation	Direct	47.070	1854985	NATIONAL SCIENCE FOUNDATION	53,687	-
National Science Foundation	Direct	47.070	1845081	NATIONAL SCIENCE FOUNDATION	179,515	-
National Science Foundation	Direct	47.070	1907591	NATIONAL SCIENCE FOUNDATION	84,205	-
National Science Foundation	Direct	47.070	HS-1900473	NATIONAL SCIENCE FOUNDATION	105,047	-
National Science Foundation	Direct	47.070	1928278	NATIONAL SCIENCE FOUNDATION	245,729	-
National Science Foundation	Direct	47.070	1940059	NATIONAL SCIENCE FOUNDATION	24,438	-
National Science Foundation	Direct	47.070	1907704	NATIONAL SCIENCE FOUNDATION	29,104	-
National Science Foundation	Direct	47.070	1909177	NATIONAL SCIENCE FOUNDATION	16,123	-
National Science Foundation	Direct	47.070	1841517	NATIONAL SCIENCE FOUNDATION	42,254	38,224
National Science Foundation	Direct	47.070	1907807	NATIONAL SCIENCE FOUNDATION	48,366	-
National Science Foundation	Direct	47.070	1950171	NATIONAL SCIENCE FOUNDATION	138,397	-
National Science Foundation	Direct	47.070	1919154	NATIONAL SCIENCE FOUNDATION	119,667	-
National Science Foundation	Direct	47.070	1841517	NATIONAL SCIENCE FOUNDATION	1,980	-
National Science Foundation	Direct	47.070	1939368	NATIONAL SCIENCE FOUNDATION	40,919	-
National Science Foundation	Direct	47.070	2029626	NATIONAL SCIENCE FOUNDATION	109,388	-
National Science Foundation	Direct	47.070	2031219	NATIONAL SCIENCE FOUNDATION	8,624	-
National Science Foundation	Direct	47.070	1939368	NATIONAL SCIENCE FOUNDATION	495	-
National Science Foundation	Direct	47.070	2007181	NATIONAL SCIENCE FOUNDATION	160,186	-
National Science Foundation	Direct	47.070	2006661	NATIONAL SCIENCE FOUNDATION	1,987	-
National Science Foundation	Direct	47.070	2006800	NATIONAL SCIENCE FOUNDATION	164,240	-
National Science Foundation	Direct	47.070	2006800	NATIONAL SCIENCE FOUNDATION	2,836	-
National Science Foundation	Direct	47.070	2006633	NATIONAL SCIENCE FOUNDATION	96,413	-
National Science Foundation	Direct	47.070	1949912	NATIONAL SCIENCE FOUNDATION	16,242	6,729
National Science Foundation	Direct	47.070	1949912	NATIONAL SCIENCE FOUNDATION	113,739	-
National Science Foundation	Direct	47.070	2007159	NATIONAL SCIENCE FOUNDATION	143,824	-
National Science Foundation	Direct	47.070	2100112	NATIONAL SCIENCE FOUNDATION	39,180	-
National Science Foundation	Direct	47.070	2100989	NATIONAL SCIENCE FOUNDATION	36,916	-
National Science Foundation	Direct	47.070	2102106	NATIONAL SCIENCE FOUNDATION	164,647	-
National Science Foundation	Direct	47.070	2106578	NATIONAL SCIENCE FOUNDATION	89,022	-
National Science Foundation	Direct	47.070	2106578	NATIONAL SCIENCE FOUNDATION	6,438	-
National Science Foundation	Direct	47.070	2007159	NATIONAL SCIENCE FOUNDATION	4,052	-
National Science Foundation	Direct	47.070	1950171	NATIONAL SCIENCE FOUNDATION	3,858	-
National Science Foundation	Direct	47.070	2118356	NATIONAL SCIENCE FOUNDATION	26,942	-
National Science Foundation	Direct	47.070	2123260	NATIONAL SCIENCE FOUNDATION	90,734	-
National Science Foundation	Direct	47.070	2007181	NATIONAL SCIENCE FOUNDATION	8,890	-
National Science Foundation	Direct	47.070	2122314	NATIONAL SCIENCE FOUNDATION	50,122	-
National Science Foundation	Direct	47.070	2117519	NATIONAL SCIENCE FOUNDATION	56,415	-
National Science Foundation	Direct	47.070	2142713	NATIONAL SCIENCE FOUNDATION	76,158	-
National Science Foundation	Direct	47.070	2134076	NATIONAL SCIENCE FOUNDATION	75,679	-
National Science Foundation	Direct	47.070	2200792	NATIONAL SCIENCE FOUNDATION	369,473	-
National Science Foundation	Direct	47.070	2147116	NATIONAL SCIENCE FOUNDATION	54,947	-
National Science Foundation	Direct	47.070	2212065	NATIONAL SCIENCE FOUNDATION	168,520	-
National Science Foundation	Direct	47.070	2211645	NATIONAL SCIENCE FOUNDATION	49,523	-
National Science Foundation	Direct	47.070	2123260	NATIONAL SCIENCE FOUNDATION	191,415	-
National Science Foundation	Direct	47.070	2228888	NATIONAL SCIENCE FOUNDATION	129,546	-
National Science Foundation	Direct	47.070	2212174	NATIONAL SCIENCE FOUNDATION	26,317	-
National Science Foundation	Direct	47.070	2212144	NATIONAL SCIENCE FOUNDATION	30,361	-
National Science Foundation	Direct	47.070	2219488	NATIONAL SCIENCE FOUNDATION	29,636	-
National Science Foundation	Direct	47.070	2207834	NATIONAL SCIENCE FOUNDATION	19,006	-
National Science Foundation	Direct	47.070	2212032	NATIONAL SCIENCE FOUNDATION	74,380	-
National Science Foundation	Direct	47.070	2246050	NATIONAL SCIENCE FOUNDATION	19,039	-
National Science Foundation	Direct	47.074	0939454	NATIONAL SCIENCE FOUNDATION	11,426	55,786
National Science Foundation	Direct	47.074	DEB-1552197	NATIONAL SCIENCE FOUNDATION	93,845	-
National Science Foundation	Direct	47.074	DEB-1552197	NATIONAL SCIENCE FOUNDATION	7,743	-
National Science Foundation	Direct	47.074	1546657	NATIONAL SCIENCE FOUNDATION	45,793	157,824
National Science Foundation	Direct	47.074	1546617	NATIONAL SCIENCE FOUNDATION	(6,583)	32,809
National Science Foundation	Direct	47.074	1546617	NATIONAL SCIENCE FOUNDATION	9,649	-
National Science Foundation	Direct	47.074	1546617	NATIONAL SCIENCE FOUNDATION	4,592	-
National Science Foundation	Direct	47.074	1546617	NATIONAL SCIENCE FOUNDATION	(908)	-
National Science Foundation	Direct	47.074	1546617	NATIONAL SCIENCE FOUNDATION	29,549	-
National Science Foundation	Direct	47.074	1638778	NATIONAL SCIENCE FOUNDATION	61,777	-
National Science Foundation	Direct	47.074	1638679	NATIONAL SCIENCE FOUNDATION	219,515	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
National Science Foundation	Direct	47.074	1655386	NATIONAL SCIENCE FOUNDATION	\$ (2,693)	\$ -
National Science Foundation	Direct	47.074	1655392	NATIONAL SCIENCE FOUNDATION	(1)	-
National Science Foundation	Direct	47.074	1719376	NATIONAL SCIENCE FOUNDATION	(214)	-
National Science Foundation	Direct	47.074	1714093	NATIONAL SCIENCE FOUNDATION	59,751	-
National Science Foundation	Direct	47.074	1714561	NATIONAL SCIENCE FOUNDATION	8	-
National Science Foundation	Direct	47.074	1714093	NATIONAL SCIENCE FOUNDATION	5,863	-
National Science Foundation	Direct	47.074	1714561	NATIONAL SCIENCE FOUNDATION	34,032	-
National Science Foundation	Direct	47.074	1737898	NATIONAL SCIENCE FOUNDATION	622,394	-
National Science Foundation	Direct	47.074	1737898	NATIONAL SCIENCE FOUNDATION	25,994	-
National Science Foundation	Direct	47.074	1702379	NATIONAL SCIENCE FOUNDATION	6,339	(14)
National Science Foundation	Direct	47.074	1714612	NATIONAL SCIENCE FOUNDATION	30,859	-
National Science Foundation	Direct	47.074	1750125	NATIONAL SCIENCE FOUNDATION	73,985	36,259
National Science Foundation	Direct	47.074	1733633	NATIONAL SCIENCE FOUNDATION	174,446	477,993
National Science Foundation	Direct	47.074	1733633	NATIONAL SCIENCE FOUNDATION	32,592	-
National Science Foundation	Direct	47.074	1737898 REU	NATIONAL SCIENCE FOUNDATION	813	-
National Science Foundation	Direct	47.074	1757043	NATIONAL SCIENCE FOUNDATION	8,235	-
National Science Foundation	Direct	47.074	1757043	NATIONAL SCIENCE FOUNDATION	24,464	-
National Science Foundation	Direct	47.074	1733633	NATIONAL SCIENCE FOUNDATION	10,430	-
National Science Foundation	Direct	47.074	1740874	NATIONAL SCIENCE FOUNDATION	156,080	100,320
National Science Foundation	Direct	47.074	1755089	NATIONAL SCIENCE FOUNDATION	151,807	-
National Science Foundation	Direct	47.074	1740874	NATIONAL SCIENCE FOUNDATION	159,137	-
National Science Foundation	Direct	47.074	1740874	NATIONAL SCIENCE FOUNDATION	5,789	-
National Science Foundation	Direct	47.074	1757530	NATIONAL SCIENCE FOUNDATION	3,537	-
National Science Foundation	Direct	47.074	1757530	NATIONAL SCIENCE FOUNDATION	9,949	-
National Science Foundation	Direct	47.074	1749544	NATIONAL SCIENCE FOUNDATION	178,994	-
National Science Foundation	Direct	47.074	1754844	NATIONAL SCIENCE FOUNDATION	3,550	-
National Science Foundation	Direct	47.074	1817307	NATIONAL SCIENCE FOUNDATION	4,357	-
National Science Foundation	Direct	47.074	1759729	NATIONAL SCIENCE FOUNDATION	17,774	-
National Science Foundation	Direct	47.074	1754250	NATIONAL SCIENCE FOUNDATION	144,897	-
National Science Foundation	Direct	47.074	1817324	NATIONAL SCIENCE FOUNDATION	64,441	-
National Science Foundation	Direct	47.074	1817377	NATIONAL SCIENCE FOUNDATION	23,904	-
National Science Foundation	Direct	47.074	1831164	NATIONAL SCIENCE FOUNDATION	31,868	-
National Science Foundation	Direct	47.074	1754357	NATIONAL SCIENCE FOUNDATION	33,312	-
National Science Foundation	Direct	47.074	1817347	NATIONAL SCIENCE FOUNDATION	23,151	-
National Science Foundation	Direct	47.074	1817347	NATIONAL SCIENCE FOUNDATION	718	-
National Science Foundation	Direct	47.074	1759892	NATIONAL SCIENCE FOUNDATION	717	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	378,195	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	43,942	-
National Science Foundation	Direct	47.074	1832042 - HADDAD	NATIONAL SCIENCE FOUNDATION	(6,884)	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	45,738	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	60,977	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	73,643	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	22,530	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	41,269	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	89,143	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	60,486	-
National Science Foundation	Direct	47.074	1832042 sLTER	NATIONAL SCIENCE FOUNDATION	13,404	-
National Science Foundation	Direct	47.074	1832042 -Outreach	NATIONAL SCIENCE FOUNDATION	19,676	-
National Science Foundation	Direct	47.074	1845463	NATIONAL SCIENCE FOUNDATION	179,868	-
National Science Foundation	Direct	47.074	1845463	NATIONAL SCIENCE FOUNDATION	6,120	-
National Science Foundation	Direct	47.074	1919439	NATIONAL SCIENCE FOUNDATION	104,777	-
National Science Foundation	Direct	47.074	1855927	NATIONAL SCIENCE FOUNDATION	200,523	148,433
National Science Foundation	Direct	47.074	1911457	NATIONAL SCIENCE FOUNDATION	534,340	409,199
National Science Foundation	Direct	47.074	1913501	NATIONAL SCIENCE FOUNDATION	23,930	-
National Science Foundation	Direct	47.074	1913501	NATIONAL SCIENCE FOUNDATION	3,502	-
National Science Foundation	Direct	47.074	DEB-1937699	NATIONAL SCIENCE FOUNDATION	20	-
National Science Foundation	Direct	47.074	DEB-1937699	NATIONAL SCIENCE FOUNDATION	5,383	-
National Science Foundation	Direct	47.074	DEB-1904267	NATIONAL SCIENCE FOUNDATION	207,802	-
National Science Foundation	Direct	47.074	1926567	NATIONAL SCIENCE FOUNDATION	55,881	-
National Science Foundation	Direct	47.074	1901958	NATIONAL SCIENCE FOUNDATION	10,061	-
National Science Foundation	Direct	47.074	1935089	NATIONAL SCIENCE FOUNDATION	104,226	-
National Science Foundation	Direct	47.074	1935047	NATIONAL SCIENCE FOUNDATION	165,722	-
National Science Foundation	Direct	47.074	1856243	NATIONAL SCIENCE FOUNDATION	142,346	-
National Science Foundation	Direct	47.074	DBI-1848913	NATIONAL SCIENCE FOUNDATION	97,595	-
National Science Foundation	Direct	47.074	1924111	NATIONAL SCIENCE FOUNDATION	427,540	109,136
National Science Foundation	Direct	47.074	1946445	NATIONAL SCIENCE FOUNDATION	160,107	97,049
National Science Foundation	Direct	47.074	1951025	NATIONAL SCIENCE FOUNDATION	267,419	36,984
National Science Foundation	Direct	47.074	1950080	NATIONAL SCIENCE FOUNDATION	295,998	-
National Science Foundation	Direct	47.074	1942143	NATIONAL SCIENCE FOUNDATION	95,764	-
National Science Foundation	Direct	47.074	1949911	NATIONAL SCIENCE FOUNDATION	7,621	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	415	-
National Science Foundation	Direct	47.074	1954406	NATIONAL SCIENCE FOUNDATION	187,165	-
National Science Foundation	Direct	47.074	1950376	NATIONAL SCIENCE FOUNDATION	482,934	26,042
National Science Foundation	Direct	47.074	1950376	NATIONAL SCIENCE FOUNDATION	54,876	-
National Science Foundation	Direct	47.074	1950376	NATIONAL SCIENCE FOUNDATION	15,206	-
National Science Foundation	Direct	47.074	1950376	NATIONAL SCIENCE FOUNDATION	12,266	-
National Science Foundation	Direct	47.074	1951307	NATIONAL SCIENCE FOUNDATION	161,847	92,201
National Science Foundation	Direct	47.074	2018296	NATIONAL SCIENCE FOUNDATION	162,121	-
National Science Foundation	Direct	47.074	1749544	NATIONAL SCIENCE FOUNDATION	5	-
National Science Foundation	Direct	47.074	1953014	NATIONAL SCIENCE FOUNDATION	352,909	-
National Science Foundation	Direct	47.074	2015843	NATIONAL SCIENCE FOUNDATION	116,753	-
National Science Foundation	Direct	47.074	2016437	NATIONAL SCIENCE FOUNDATION	66,847	-
National Science Foundation	Direct	47.074	2022495	NATIONAL SCIENCE FOUNDATION	246,888	-
National Science Foundation	Direct	47.074	2022495	NATIONAL SCIENCE FOUNDATION	5,833	-
National Science Foundation	Direct	47.074	2016347	NATIONAL SCIENCE FOUNDATION	17,630	-
National Science Foundation	Direct	47.074	2029959	NATIONAL SCIENCE FOUNDATION	729,230	-
National Science Foundation	Direct	47.074	2016569	NATIONAL SCIENCE FOUNDATION	168,775	14,024
National Science Foundation	Direct	47.074	2029216	NATIONAL SCIENCE FOUNDATION	295,908	52,530
National Science Foundation	Direct	47.074	1946007	NATIONAL SCIENCE FOUNDATION	35,896	18,018
National Science Foundation	Direct	47.074	2034631	NATIONAL SCIENCE FOUNDATION	167,729	-
National Science Foundation	Direct	47.074	2034631	NATIONAL SCIENCE FOUNDATION	3,380	-
National Science Foundation	Direct	47.074	2030337	NATIONAL SCIENCE FOUNDATION	178,460	-
National Science Foundation	Direct	47.074	2051885	NATIONAL SCIENCE FOUNDATION	425,408	-
National Science Foundation	Direct	47.074	2042908	NATIONAL SCIENCE FOUNDATION	172,448	-
National Science Foundation	Direct	47.074	2035472	NATIONAL SCIENCE FOUNDATION	391,920	-
National Science Foundation	Direct	47.074	2107215	NATIONAL SCIENCE FOUNDATION	151,419	-
National Science Foundation	Direct	47.074	2016569	NATIONAL SCIENCE FOUNDATION	3,564	23,965
National Science Foundation	Direct	47.074	1638778	NATIONAL SCIENCE FOUNDATION	16,585	-
National Science Foundation	Direct	47.074	2044818	NATIONAL SCIENCE FOUNDATION	291,547	-
National Science Foundation	Direct	47.074	2029320	NATIONAL SCIENCE FOUNDATION	112,866	-
National Science Foundation	Direct	47.074	2133544	NATIONAL SCIENCE FOUNDATION	15,460	3,465
National Science Foundation	Direct	47.074	2054773	NATIONAL SCIENCE FOUNDATION	227,219	-
National Science Foundation	Direct	47.074	2054773	NATIONAL SCIENCE FOUNDATION	508	-
National Science Foundation	Direct	47.074	1546657	NATIONAL SCIENCE FOUNDATION	1,445	-
National Science Foundation	Direct	47.074	2015843	NATIONAL SCIENCE FOUNDATION	11,388	-
National Science Foundation	Direct	47.074	1919439	NATIONAL SCIENCE FOUNDATION	4,554	-
National Science Foundation	Direct	47.074	2016437	NATIONAL SCIENCE FOUNDATION	5,633	-
National Science Foundation	Direct	47.074	2124800	NATIONAL SCIENCE FOUNDATION	84,562	-
National Science Foundation	Direct	47.074	2107215	NATIONAL SCIENCE FOUNDATION	77,741	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
National Science Foundation	Direct	47.074	2107215	NATIONAL SCIENCE FOUNDATION	\$ 43,120	\$ -
National Science Foundation	Direct	47.074	2125104	NATIONAL SCIENCE FOUNDATION	87,364	-
National Science Foundation	Direct	47.074	2127743	NATIONAL SCIENCE FOUNDATION	430,311	-
National Science Foundation	Direct	47.074	2203260	NATIONAL SCIENCE FOUNDATION	1,772	-
National Science Foundation	Direct	47.074	2203260	NATIONAL SCIENCE FOUNDATION	24,800	-
National Science Foundation	Direct	47.074	2143267	NATIONAL SCIENCE FOUNDATION	274,842	-
National Science Foundation	Direct	47.074	2143267	NATIONAL SCIENCE FOUNDATION	4,336	-
National Science Foundation	Direct	47.074	2149531	NATIONAL SCIENCE FOUNDATION	5,028	-
National Science Foundation	Direct	47.074	2149531	NATIONAL SCIENCE FOUNDATION	60,043	-
National Science Foundation	Direct	47.074	2150104	NATIONAL SCIENCE FOUNDATION	23,768	-
National Science Foundation	Direct	47.074	2150104	NATIONAL SCIENCE FOUNDATION	79,413	-
National Science Foundation	Direct	47.074	2212082	NATIONAL SCIENCE FOUNDATION	36,254	-
National Science Foundation	Direct	47.074	2144121	NATIONAL SCIENCE FOUNDATION	75,490	-
National Science Foundation	Direct	47.074	2227060	NATIONAL SCIENCE FOUNDATION	122,586	-
National Science Foundation	Direct	47.074	2203582	NATIONAL SCIENCE FOUNDATION	13,674	-
National Science Foundation	Direct	47.074	2148206	NATIONAL SCIENCE FOUNDATION	35,147	-
National Science Foundation	Direct	47.074	2148206	NATIONAL SCIENCE FOUNDATION	76	-
National Science Foundation	Direct	47.074	2153100	NATIONAL SCIENCE FOUNDATION	180,968	-
National Science Foundation	Direct	47.074	2213565	NATIONAL SCIENCE FOUNDATION	26,758	-
National Science Foundation	Direct	47.074	2210431	NATIONAL SCIENCE FOUNDATION	48,086	-
National Science Foundation	Direct	47.074	2211993	NATIONAL SCIENCE FOUNDATION	53,083	-
National Science Foundation	Direct	47.074	2218818	NATIONAL SCIENCE FOUNDATION	25,660	-
National Science Foundation	Direct	47.074	2203474	NATIONAL SCIENCE FOUNDATION	108,714	-
National Science Foundation	Direct	47.074	2203474	NATIONAL SCIENCE FOUNDATION	19,066	-
National Science Foundation	Direct	47.074	2216206	NATIONAL SCIENCE FOUNDATION	4,000	-
National Science Foundation	Direct	47.074	2226136	NATIONAL SCIENCE FOUNDATION	34,557	-
National Science Foundation	Direct	47.074	2223962	NATIONAL SCIENCE FOUNDATION	81,135	-
National Science Foundation	Direct	47.074	2218206	NATIONAL SCIENCE FOUNDATION	173,842	-
National Science Foundation	Direct	47.074	2224712	NATIONAL SCIENCE FOUNDATION	317,804	-
National Science Foundation	Direct	47.074	2224712	NATIONAL SCIENCE FOUNDATION	347	-
National Science Foundation	Direct	47.074	2224712	NATIONAL SCIENCE FOUNDATION	57,681	-
National Science Foundation	Direct	47.074	2224712	NATIONAL SCIENCE FOUNDATION	31,344	-
National Science Foundation	Direct	47.074	2224712	NATIONAL SCIENCE FOUNDATION	1,202	-
National Science Foundation	Direct	47.074	2224712	NATIONAL SCIENCE FOUNDATION	16,985	-
National Science Foundation	Direct	47.074	2224712	NATIONAL SCIENCE FOUNDATION	28,351	-
National Science Foundation	Direct	47.074	2224712	NATIONAL SCIENCE FOUNDATION	14,285	-
National Science Foundation	Direct	47.074	2224712	NATIONAL SCIENCE FOUNDATION	76,920	-
National Science Foundation	Direct	47.074	2224712	NATIONAL SCIENCE FOUNDATION	1,565	-
National Science Foundation	Direct	47.074	2308660	NATIONAL SCIENCE FOUNDATION	255,056	-
National Science Foundation	Direct	47.074	1759729	NATIONAL SCIENCE FOUNDATION	14,289	-
National Science Foundation	Direct	47.074	2316708	NATIONAL SCIENCE FOUNDATION	4,069	-
National Science Foundation	Direct	47.074	2243230	NATIONAL SCIENCE FOUNDATION	19,481	-
National Science Foundation	Direct	47.074	2323185	NATIONAL SCIENCE FOUNDATION	6,815	-
National Science Foundation	Direct	47.074	2237117	NATIONAL SCIENCE FOUNDATION	19,833	-
National Science Foundation	Direct	47.075	BCS-1656133	NATIONAL SCIENCE FOUNDATION	976	-
National Science Foundation	Direct	47.075	1654929	NATIONAL SCIENCE FOUNDATION	55,015	-
National Science Foundation	Direct	47.075	1734063	NATIONAL SCIENCE FOUNDATION	11,367	-
National Science Foundation	Direct	47.075	1734063	NATIONAL SCIENCE FOUNDATION	3,790	-
National Science Foundation	Direct	47.075	1759528	NATIONAL SCIENCE FOUNDATION	27,184	-
National Science Foundation	Direct	47.075	1759592	NATIONAL SCIENCE FOUNDATION	149,897	-
National Science Foundation	Direct	47.075	1826911	NATIONAL SCIENCE FOUNDATION	62,754	-
National Science Foundation	Direct	47.075	1823889	NATIONAL SCIENCE FOUNDATION	88,800	28,290
National Science Foundation	Direct	47.075	1826773	NATIONAL SCIENCE FOUNDATION	3,243	-
National Science Foundation	Direct	47.075	SES-1851928	NATIONAL SCIENCE FOUNDATION	90,883	2,244
National Science Foundation	Direct	47.075	BCS-1848972	NATIONAL SCIENCE FOUNDATION	100,408	-
National Science Foundation	Direct	47.075	SES-1920409	NATIONAL SCIENCE FOUNDATION	120,478	-
National Science Foundation	Direct	47.075	BCS-1900108	NATIONAL SCIENCE FOUNDATION	3,816	-
National Science Foundation	Direct	47.075	1920557-SES	NATIONAL SCIENCE FOUNDATION	24,109	-
National Science Foundation	Direct	47.075	1918411	NATIONAL SCIENCE FOUNDATION	52,152	-
National Science Foundation	Direct	47.075	1949083	NATIONAL SCIENCE FOUNDATION	36,564	-
National Science Foundation	Direct	47.075	1948678	NATIONAL SCIENCE FOUNDATION	13,575	84
National Science Foundation	Direct	47.075	2016320	NATIONAL SCIENCE FOUNDATION	14,111	-
National Science Foundation	Direct	47.075	2017180	NATIONAL SCIENCE FOUNDATION	117,576	-
National Science Foundation	Direct	47.075	1823889	NATIONAL SCIENCE FOUNDATION	8,141	-
National Science Foundation	Direct	47.075	2018267	NATIONAL SCIENCE FOUNDATION	2,900	-
National Science Foundation	Direct	47.075	2024238	NATIONAL SCIENCE FOUNDATION	55,677	-
National Science Foundation	Direct	47.075	2019995	NATIONAL SCIENCE FOUNDATION	77,388	-
National Science Foundation	Direct	47.075	2041242	NATIONAL SCIENCE FOUNDATION	(6,004)	-
National Science Foundation	Direct	47.075	2039814	NATIONAL SCIENCE FOUNDATION	79,159	-
National Science Foundation	Direct	47.075	2048562	NATIONAL SCIENCE FOUNDATION	130,570	-
National Science Foundation	Direct	47.075	2124739	NATIONAL SCIENCE FOUNDATION	9,173	-
National Science Foundation	Direct	47.075	2121214	NATIONAL SCIENCE FOUNDATION	624	-
National Science Foundation	Direct	47.075	2119975	NATIONAL SCIENCE FOUNDATION	29,779	-
National Science Foundation	Direct	47.075	2119975	NATIONAL SCIENCE FOUNDATION	31,412	-
National Science Foundation	Direct	47.075	2120500	NATIONAL SCIENCE FOUNDATION	172,716	-
National Science Foundation	Direct	47.075	2128803	NATIONAL SCIENCE FOUNDATION	192,233	-
National Science Foundation	Direct	47.075	COVID-19 - 2120530	NATIONAL SCIENCE FOUNDATION	83,576	-
National Science Foundation	Direct	47.075	2120530	NATIONAL SCIENCE FOUNDATION	1,450	-
National Science Foundation	Direct	47.075	2040257	NATIONAL SCIENCE FOUNDATION	86,068	-
National Science Foundation	Direct	47.075	2211744	NATIONAL SCIENCE FOUNDATION	38,314	-
National Science Foundation	Direct	47.075	2218341	NATIONAL SCIENCE FOUNDATION	909	-
National Science Foundation	Direct	47.075	2213960	NATIONAL SCIENCE FOUNDATION	11,916	-
National Science Foundation	Direct	47.075	1759528	NATIONAL SCIENCE FOUNDATION	9,802	-
National Science Foundation	Direct	47.075	2154547	NATIONAL SCIENCE FOUNDATION	973	-
National Science Foundation	Direct	47.075	2228259	NATIONAL SCIENCE FOUNDATION	62,009	-
National Science Foundation	Direct	47.075	2302466	NATIONAL SCIENCE FOUNDATION	19,079	-
National Science Foundation	Direct	47.076	DUE-1340048	NATIONAL SCIENCE FOUNDATION	28,666	-
National Science Foundation	Direct	47.076	DUE-1340048	NATIONAL SCIENCE FOUNDATION	18,584	-
National Science Foundation	Direct	47.076	DUE-1432563	NATIONAL SCIENCE FOUNDATION	108,515	-
National Science Foundation	Direct	47.076	DUE-1432563	NATIONAL SCIENCE FOUNDATION	19,481	-
National Science Foundation	Direct	47.076	1623824	NATIONAL SCIENCE FOUNDATION	16,498	-
National Science Foundation	Direct	47.076	1620934	NATIONAL SCIENCE FOUNDATION	123,491	-
National Science Foundation	Direct	47.076	1620580	NATIONAL SCIENCE FOUNDATION	261,640	-
National Science Foundation	Direct	47.076	1620746	NATIONAL SCIENCE FOUNDATION	26,146	-
National Science Foundation	Direct	47.076	1561122	NATIONAL SCIENCE FOUNDATION	10,411	-
National Science Foundation	Direct	47.076	1646869	NATIONAL SCIENCE FOUNDATION	7,863	-
National Science Foundation	Direct	47.076	1643723	NATIONAL SCIENCE FOUNDATION	72,385	-
National Science Foundation	Direct	47.076	1620934	NATIONAL SCIENCE FOUNDATION	18,920	-
National Science Foundation	Direct	47.076	1643723	NATIONAL SCIENCE FOUNDATION	29,923	-
National Science Foundation	Direct	47.076	1643833	NATIONAL SCIENCE FOUNDATION	53,227	-
National Science Foundation	Direct	47.076	1643833	NATIONAL SCIENCE FOUNDATION	91,089	-
National Science Foundation	Direct	47.076	DRL-1680926	NATIONAL SCIENCE FOUNDATION	(37,147)	57,034
National Science Foundation	Direct	47.076	1713060	NATIONAL SCIENCE FOUNDATION	13,801	52,855
National Science Foundation	Direct	47.076	1725956	NATIONAL SCIENCE FOUNDATION	70,428	-
National Science Foundation	Direct	47.076	1660643	NATIONAL SCIENCE FOUNDATION	1,686	-
National Science Foundation	Direct	47.076	1741575	NATIONAL SCIENCE FOUNDATION	99,084	30,496
National Science Foundation	Direct	47.076	1725521	NATIONAL SCIENCE FOUNDATION	21,621	-
National Science Foundation	Direct	47.076	1741575	NATIONAL SCIENCE FOUNDATION	677	-
National Science Foundation	Direct	47.076	1725910	NATIONAL SCIENCE FOUNDATION	(275)	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
National Science Foundation	Direct	47.076	1702592	NATIONAL SCIENCE FOUNDATION	\$ 4,905	\$ -
National Science Foundation	Direct	47.076	1725320	NATIONAL SCIENCE FOUNDATION	252,412	69,266
National Science Foundation	Direct	47.076	1708664	NATIONAL SCIENCE FOUNDATION	7,934	-
National Science Foundation	Direct	47.076	1742381	NATIONAL SCIENCE FOUNDATION	394,476	438,575
National Science Foundation	Direct	47.076	1725520	NATIONAL SCIENCE FOUNDATION	263,690	-
National Science Foundation	Direct	47.076	1725320	NATIONAL SCIENCE FOUNDATION	58,927	-
National Science Foundation	Direct	47.076	1742381	NATIONAL SCIENCE FOUNDATION	39,980	-
National Science Foundation	Direct	47.076	1842037	NATIONAL SCIENCE FOUNDATION	131,654	-
National Science Foundation	Direct	47.076	1842037	NATIONAL SCIENCE FOUNDATION	(1,000)	-
National Science Foundation	Direct	47.076	1813047	NATIONAL SCIENCE FOUNDATION	277,231	-
National Science Foundation	Direct	47.076	DGE-1828149	NATIONAL SCIENCE FOUNDATION	63,028	5,561
National Science Foundation	Direct	47.076	DGE-1828149	NATIONAL SCIENCE FOUNDATION	781,299	-
National Science Foundation	Direct	47.076	1848739	NATIONAL SCIENCE FOUNDATION	1,028,969	-
National Science Foundation	Direct	47.076	1835946	NATIONAL SCIENCE FOUNDATION	24,315	9,479
National Science Foundation	Direct	47.076	1908165	NATIONAL SCIENCE FOUNDATION	7,954	-
National Science Foundation	Direct	47.076	1907506	NATIONAL SCIENCE FOUNDATION	382,190	9,822
National Science Foundation	Direct	47.076	1907506	NATIONAL SCIENCE FOUNDATION	12,508	-
National Science Foundation	Direct	47.076	1646869	NATIONAL SCIENCE FOUNDATION	6,098	-
National Science Foundation	Direct	47.076	1933933	NATIONAL SCIENCE FOUNDATION	244,912	86,361
National Science Foundation	Direct	47.076	1933933	NATIONAL SCIENCE FOUNDATION	29,500	-
National Science Foundation	Direct	47.076	DUE-1913698	NATIONAL SCIENCE FOUNDATION	117,472	56,905
National Science Foundation	Direct	47.076	1914722	NATIONAL SCIENCE FOUNDATION	78,051	-
National Science Foundation	Direct	47.076	1908084	NATIONAL SCIENCE FOUNDATION	37,754	7,571
National Science Foundation	Direct	47.076	1908084	NATIONAL SCIENCE FOUNDATION	88,960	-
National Science Foundation	Direct	47.076	2013259	NATIONAL SCIENCE FOUNDATION	52,593	-
National Science Foundation	Direct	47.076	1954767	NATIONAL SCIENCE FOUNDATION	139,650	-
National Science Foundation	Direct	47.076	2012933	NATIONAL SCIENCE FOUNDATION	144,011	-
National Science Foundation	Direct	47.076	COVID-19 - 2007842	NATIONAL SCIENCE FOUNDATION	839,075	363,783
National Science Foundation	Direct	47.076	COVID-19 - 2007842	NATIONAL SCIENCE FOUNDATION	7,618	-
National Science Foundation	Direct	47.076	2012014	NATIONAL SCIENCE FOUNDATION	125,297	-
National Science Foundation	Direct	47.076	2020195	NATIONAL SCIENCE FOUNDATION	138,548	-
National Science Foundation	Direct	47.076	1811855	NATIONAL SCIENCE FOUNDATION	7,133	-
National Science Foundation	Direct	47.076	2013286	NATIONAL SCIENCE FOUNDATION	49,513	-
National Science Foundation	Direct	47.076	2020221	NATIONAL SCIENCE FOUNDATION	118,139	-
National Science Foundation	Direct	47.076	2000605	NATIONAL SCIENCE FOUNDATION	72,222	-
National Science Foundation	Direct	47.076	2000021	NATIONAL SCIENCE FOUNDATION	104,889	-
National Science Foundation	Direct	47.076	2025244	NATIONAL SCIENCE FOUNDATION	43,796	-
National Science Foundation	Direct	47.076	2055322	NATIONAL SCIENCE FOUNDATION	246,626	-
National Science Foundation	Direct	47.076	2100964	NATIONAL SCIENCE FOUNDATION	273,274	-
National Science Foundation	Direct	47.076	COVID-19 - 2100990	NATIONAL SCIENCE FOUNDATION	551,140	94,505
National Science Foundation	Direct	47.076	COVID-19 - 2100990	NATIONAL SCIENCE FOUNDATION	17,836	-
National Science Foundation	Direct	47.076	2115522	NATIONAL SCIENCE FOUNDATION	153,048	-
National Science Foundation	Direct	47.076	2111403	NATIONAL SCIENCE FOUNDATION	119,226	-
National Science Foundation	Direct	47.076	2128902	NATIONAL SCIENCE FOUNDATION	78,915	-
National Science Foundation	Direct	47.076	2138058	NATIONAL SCIENCE FOUNDATION	71,891	-
National Science Foundation	Direct	47.076	2203123	NATIONAL SCIENCE FOUNDATION	63,350	-
National Science Foundation	Direct	47.076	1623824	NATIONAL SCIENCE FOUNDATION	49,999	-
National Science Foundation	Direct	47.076	2200757	NATIONAL SCIENCE FOUNDATION	138,687	-
National Science Foundation	Direct	47.076	2201859	NATIONAL SCIENCE FOUNDATION	71,104	-
National Science Foundation	Direct	47.076	2201859	NATIONAL SCIENCE FOUNDATION	24,000	-
National Science Foundation	Direct	47.076	2215188	NATIONAL SCIENCE FOUNDATION	108,585	-
National Science Foundation	Direct	47.076	2221177	NATIONAL SCIENCE FOUNDATION	11,527	-
National Science Foundation	Direct	47.076	2224946	NATIONAL SCIENCE FOUNDATION	43,062	-
National Science Foundation	Direct	47.076	2222234	NATIONAL SCIENCE FOUNDATION	46,500	-
National Science Foundation	Direct	47.076	2201068	NATIONAL SCIENCE FOUNDATION	47,226	-
National Science Foundation	Direct	47.076	1913554	NATIONAL SCIENCE FOUNDATION	27,830	-
National Science Foundation	Direct	47.076	2226271	NATIONAL SCIENCE FOUNDATION	78,386	-
National Science Foundation	Direct	47.076	2200763	NATIONAL SCIENCE FOUNDATION	208,327	-
National Science Foundation	Direct	47.076	2201795	NATIONAL SCIENCE FOUNDATION	25,660	-
National Science Foundation	Direct	47.076	2152014	NATIONAL SCIENCE FOUNDATION	108,620	-
National Science Foundation	Direct	47.076	2152014	NATIONAL SCIENCE FOUNDATION	3,630	-
National Science Foundation	Direct	47.076	2235487	NATIONAL SCIENCE FOUNDATION	9,106	-
National Science Foundation	Direct	47.076	2237739	NATIONAL SCIENCE FOUNDATION	8,219	-
National Science Foundation	Direct	47.076	2238446	NATIONAL SCIENCE FOUNDATION	6,017	-
National Science Foundation	Direct	47.076	FELLOWSHIPS	NATIONAL SCIENCE FOUNDATION	317,227	-
National Science Foundation	Direct	47.078	2033507	NATIONAL SCIENCE FOUNDATION	216,290	-
National Science Foundation	Direct	47.079	1827093	NATIONAL SCIENCE FOUNDATION	(36,135)	-
National Science Foundation	Direct	47.079	1827093	NATIONAL SCIENCE FOUNDATION	42,656	-
National Science Foundation	Direct	47.079	1853934	NATIONAL SCIENCE FOUNDATION	284	-
National Science Foundation	Direct	47.079	1853934	NATIONAL SCIENCE FOUNDATION	52,801	-
National Science Foundation	Direct	47.079	1927130	NATIONAL SCIENCE FOUNDATION	204,963	3,486
National Science Foundation	Direct	47.079	1927130	NATIONAL SCIENCE FOUNDATION	93,814	-
National Science Foundation	Direct	47.079	1952438	NATIONAL SCIENCE FOUNDATION	15,203	-
National Science Foundation	Direct	47.079	1952438	NATIONAL SCIENCE FOUNDATION	13,839	-
National Science Foundation	Direct	47.079	2040927	NATIONAL SCIENCE FOUNDATION	(1,208)	-
National Science Foundation	Direct	47.079	2135564	NATIONAL SCIENCE FOUNDATION	190,587	-
National Science Foundation	Direct	47.079	2135564	NATIONAL SCIENCE FOUNDATION	10,739	-
National Science Foundation	Direct	47.079	OISE-1545684	NATIONAL SCIENCE FOUNDATION	48,267	-
National Science Foundation	Direct	47.079	2153316	NATIONAL SCIENCE FOUNDATION	10,967	-
National Science Foundation	Direct	47.079	2153316	NATIONAL SCIENCE FOUNDATION	45,348	-
National Science Foundation	Direct	47.083	1934348	NATIONAL SCIENCE FOUNDATION	30,334	-
National Science Foundation	Direct	47.083	1954196	NATIONAL SCIENCE FOUNDATION	4,407	-
National Science Foundation	Direct	47.083	2020790	NATIONAL SCIENCE FOUNDATION	480,936	-
National Science Foundation	Direct	47.083	2114321	NATIONAL SCIENCE FOUNDATION	88,655	-
National Science Foundation	Direct	47.083	2119916	NATIONAL SCIENCE FOUNDATION	70,959	-
National Science Foundation	Direct	47.083	2137766	NATIONAL SCIENCE FOUNDATION	259,288	35,273
National Science Foundation	Direct	47.084	2044254	NATIONAL SCIENCE FOUNDATION	21,105	-
National Science Foundation	Direct	47.084	2234310	NATIONAL SCIENCE FOUNDATION	36,185	-
National Science Foundation	Direct	47.084	2235916	NATIONAL SCIENCE FOUNDATION	149,828	-
Direct Total					58,370,622	4,497,952
National Science Foundation	Pass-through	47.041	97055-23714201	UNIVERSITY OF MARYLAND	33,737	-
National Science Foundation	Pass-through	47.041	S1863P-B	OREGON STATE UNIV	2,689	-
National Science Foundation	Pass-through	47.041	2	IASO THERAPEUTICS INC	5,936	-
National Science Foundation	Pass-through	47.041	2052170	INFRASTRUCTURE ANALYTICS CO	26,008	-
National Science Foundation	Pass-through	47.049	3004423504	UNIVERSITY OF MICHIGAN	124,192	-
National Science Foundation	Pass-through	47.049	76749/1136652/2 M&O	THE RESEARCH FOUNDATION FOR THE STATE UNIV OF NEW YORK	62,888	-
National Science Foundation	Pass-through	47.049	R3H451	RICE UNIV	(2,017)	-
National Science Foundation	Pass-through	47.049	855K805	UNIVERSITY OF WISCONSIN MADISON	609,095	-
National Science Foundation	Pass-through	47.049	000000295	UNIVERSITY OF WISCONSIN MADISON	79,118	-
National Science Foundation	Pass-through	47.049	22(GG016228)	COLUMBIA UNIV	281,899	-
National Science Foundation	Pass-through	47.049	23(GG016228)	COLUMBIA UNIV	76,158	-
National Science Foundation	Pass-through	47.049	21(GG016228)	COLUMBIA UNIV	488,267	-
National Science Foundation	Pass-through	47.049	20(GG016228)	COLUMBIA UNIV	24,737	-
National Science Foundation	Pass-through	47.049	0001	WITTENBERG UNIVERSITY	15,310	-
National Science Foundation	Pass-through	47.049	191200621	MICHIGAN TECHNOLOGICAL UNIVERSITY	56,724	-
National Science Foundation	Pass-through	47.049	60051551 MSU	NORTHWESTERN UNIV	(792)	-
National Science Foundation	Pass-through	47.049	096721-18001	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	45,793	-
National Science Foundation	Pass-through	47.049	401995-5801	COLORADO SCHOOL OF MINES	40,933	-
National Science Foundation	Pass-through	47.049	SUBK00017480	UNIVERSITY OF MICHIGAN	385,385	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
National Science Foundation	Pass-through	47.049	38(GG016228)	COLUMBIA UNIV	\$ 100,348	\$ -
National Science Foundation	Pass-through	47.049	375812	NATIONAL RADIO ASTRONOMY OBSERVATORY	29,217	-
National Science Foundation	Pass-through	47.049	93443/11728842 M&O	STONY BROOK UNIVERSITY	257,092	-
National Science Foundation	Pass-through	47.049	000002385	UNIVERSITY OF WISCONSIN MADISON	248,773	-
National Science Foundation	Pass-through	47.050	10010192-MSU01	BOWLING GREEN STATE UNIVERSITY	38,250	-
National Science Foundation	Pass-through	47.050	MSU-NSF-CALMV	NORTHERN MICHIGAN UNIV	9,883	-
National Science Foundation	Pass-through	47.050	AWD100221 (SUB00000492)	UNIVERSITY OF CHICAGO	82,570	122,143
National Science Foundation	Pass-through	47.070	203405437	UNIVERSITY OF WISCONSIN MLWAUKEE	76,575	-
National Science Foundation	Pass-through	47.070	UT21727	OHIO UNIV	139,075	-
National Science Foundation	Pass-through	47.070	UT21727	OHIO UNIV	192,359	-
National Science Foundation	Pass-through	47.070	16-800-MSU-2	WEST VIRGINIA UNIV	8,059	-
National Science Foundation	Pass-through	47.070	16-800-MSU-1	WEST VIRGINIA UNIVERSITY RESEARCH CORP	(7)	-
National Science Foundation	Pass-through	47.070	00010609	UNIVERSITY OF CALIFORNIA BERKELEY	31,323	-
National Science Foundation	Pass-through	47.070	16-800-MSU-5	WEST VIRGINIA UNIV	44,478	-
National Science Foundation	Pass-through	47.070	16-800-MSU-8	WEST VIRGINIA UNIV	3,348	-
National Science Foundation	Pass-through	47.070	16-800-MSU-7 PO MM000378442	WEST VIRGINIA UNIV	1,231	-
National Science Foundation	Pass-through	47.070	2021CF-Michigan State-42	COMPUTING RESEARCH ASSOC	125,729	-
National Science Foundation	Pass-through	47.070	024703A	IOWA STATE UNIV	39,522	-
National Science Foundation	Pass-through	47.070	16-800-MSU-6	WEST VIRGINIA UNIV	32,344	-
National Science Foundation	Pass-through	47.070	101320	CLARKSON UNIV	8,126	-
National Science Foundation	Pass-through	47.070	106203-18638	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	265,608	-
National Science Foundation	Pass-through	47.070	32677-01	ROCHESTER INST OF TECHNOLOGY	11,371	-
National Science Foundation	Pass-through	47.070	32562-01	ROCHESTER INST OF TECHNOLOGY	701	-
National Science Foundation	Pass-through	47.074	eRSR042271	SAINT LOUIS UNIV	20,284	61,881
National Science Foundation	Pass-through	47.074	SUBK00008579	UNIVERSITY OF MICHIGAN	105,047	-
National Science Foundation	Pass-through	47.074	P007914603	UNIVERSITY OF MINNESOTA	139,908	-
National Science Foundation	Pass-through	47.074	50130-1-FDP	FIELD MUSEUM	757	-
National Science Foundation	Pass-through	47.074	SUB00002646-0A	UNIVERSITY OF GEORGIA	130,817	-
National Science Foundation	Pass-through	47.074	SUB00002642	UNIVERSITY OF GEORGIA	174,957	-
National Science Foundation	Pass-through	47.074	TCM003745	PACE UNIVERSITY	1,335	-
National Science Foundation	Pass-through	47.074	SUB00003332	UNIVERSITY OF FLORIDA	2,721	-
National Science Foundation	Pass-through	47.074	11054-1315-06	CARNEGIE INSTITUTION FOR SCIENCE	45,783	-
National Science Foundation	Pass-through	47.074	000535058-SC007	UNIVERSITY OF ALABAMA AT BIRMINGHAM	4,406	-
National Science Foundation	Pass-through	47.074	A23-0026-S001	UNIVERSITY OF CALIFORNIA MERCED	71,370	-
National Science Foundation	Pass-through	47.074	A23-0010-S003	UNIVERSITY OF TENNESSEE	32,800	-
National Science Foundation	Pass-through	47.074	11054-1315-06	CARNEGIE INSTITUTION FOR SCIENCE	56,422	-
National Science Foundation	Pass-through	47.075	MSU-NSF-Forest Fuels	NORTHERN MICHIGAN UNIV	02,375	-
National Science Foundation	Pass-through	47.075	2224-206-2014060	CLEMSON UNIV	308,894	-
National Science Foundation	Pass-through	47.075	8685	INDIANA UNIV	55,986	-
National Science Foundation	Pass-through	47.075	SUB00002981	UNIVERSITY OF FLORIDA	16,334	-
National Science Foundation	Pass-through	47.075	M2203500	TEXAS A&M UNIV	21,297	-
National Science Foundation	Pass-through	47.076	9109-0003	ASSOCIATED UNIVERSITIES INC	129,982	-
National Science Foundation	Pass-through	47.076	856K424	UNIVERSITY OF WISCONSIN	66,555	-
National Science Foundation	Pass-through	47.076	000000428	UNIVERSITY OF WISCONSIN MADISON	12,446	-
National Science Foundation	Pass-through	47.076	SUBK00012198	UNIVERSITY OF MICHIGAN	1,087	-
National Science Foundation	Pass-through	47.076	RG2003-3210	EASTERN MICHIGAN UNIV	16,451	-
National Science Foundation	Pass-through	47.076	OSA00000030	VANDERBLT UNIV	118,520	-
National Science Foundation	Pass-through	47.076	1561027	UNIVERSITY OF COLORADO BOULDER	11,763	-
National Science Foundation	Pass-through	47.076	021385A	IOWA STATE UNIV	16,786	-
National Science Foundation	Pass-through	47.076	SUBK00014598	UNIVERSITY OF MICHIGAN	54,910	-
National Science Foundation	Pass-through	47.076	SUBK00014598	UNIVERSITY OF MICHIGAN	5,620	-
National Science Foundation	Pass-through	47.076	IP 592132	UNIVERSITY OF UTAH	984	-
National Science Foundation	Pass-through	47.076	1749275	AMER EDUCATIONAL RESEARCH ASSOC	7,373	-
National Science Foundation	Pass-through	47.076	163950653	UNIVERSITY OF CONNECTICUT	16,135	-
National Science Foundation	Pass-through	47.076	NSF00135-04	UNIVERSITY OF MARYLAND BALTIMORE COUNTY	20,532	-
National Science Foundation	Pass-through	47.078	0000001309	UNIVERSITY OF WISCONSIN MADISON	104,522	-
National Science Foundation	Pass-through	47.079	S003164-NSF	PENNSYLVANIA STATE UNIV	49,584	-
National Science Foundation	Pass-through	47.083	KK2116	UNIVERSITY OF CALIFORNIA SANTA BARBARA	119,728	-
National Science Foundation	Pass-through	47.083	60078865	OHIO STATE UNIV	(19,092)	-
National Science Foundation	Pass-through	47.083	GR125363/SPC-1000005873	OHIO STATE UNIV	189,835	-
National Science Foundation	Pass-through	47.083	FY2023-043	UNIVERSITY OF KANSAS	9,098	-
National Science Foundation	Pass-through	47.083	SUB00002958	RUTGERS UNIVERSITY	8,743	-
National Science Foundation	Pass-through	47.084	IP 00540359	DATASHAPES LLC	70,184	-
National Science Foundation	Pass-through	47.084	E2059541	GEORGE MASON UNIV	100,463	-
Pass-through Total					6,443,737	184,024
National Science Foundation Total					64,814,359	4,681,976
Office of the Director of National Intelligence	Direct	54.RD	2017-1702020004	INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY	42,744	168,566
Office of the Director of National Intelligence	Direct	54.RD	2022-2110210004	INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY	3,143,949	59,951
Office of the Director of National Intelligence	Direct	54.RD	2022-2110210004	INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY	88,844	-
Office of the Director of National Intelligence Total					3,275,537	228,517
Environmental Protection Agency	Direct	66.466	96373801	U.S. ENVIRONMENTAL PROTECTION AGENCY	180,835	-
Environmental Protection Agency	Direct	66.469	00E02802	U.S. ENVIRONMENTAL PROTECTION AGENCY	226,732	134,353
Environmental Protection Agency	Direct	66.469	00E02802	U.S. ENVIRONMENTAL PROTECTION AGENCY	260	-
Environmental Protection Agency	Direct	66.509	83616801	U.S. ENVIRONMENTAL PROTECTION AGENCY	126,318	-
Environmental Protection Agency	Direct	66.511	84025201	U.S. ENVIRONMENTAL PROTECTION AGENCY	209,047	-
Environmental Protection Agency	Direct	66.516	84038201	U.S. ENVIRONMENTAL PROTECTION AGENCY	74,586	-
Environmental Protection Agency	Direct	66.516	84040201	U.S. ENVIRONMENTAL PROTECTION AGENCY	6,463	-
Direct Total					824,241	134,353
Environmental Protection Agency	Pass-through	66.469	2020-2510	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	49,811	-
Environmental Protection Agency	Pass-through	66.469	IP00569223	VAN BUREN CONSERVATION DISTRICT	(178)	-
Environmental Protection Agency	Pass-through	66.509	TUL-HSC-559593-2122	THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND	57,022	-
Environmental Protection Agency	Pass-through	66.511	4109-79628	PURDUE UNIV	213	-
Environmental Protection Agency	Pass-through	66.511	401579-5802	COLORADO SCHOOL OF MINES	68,414	-
Environmental Protection Agency	Pass-through	66.605	2022-0026	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	18,372	-
Pass-through Total					193,654	-
Environmental Protection Agency Total					1,017,895	134,353
U.S. Dept of Energy	Direct	81.049	DE-FG02-91ER20021	U.S. DEPT OF ENERGY	4,026,283	-
U.S. Dept of Energy	Direct	81.049	DE-FG02-91ER20021	U.S. DEPT OF ENERGY	32,965	-
U.S. Dept of Energy	Direct	81.049	DE-FG02-03ER41259	U.S. DEPT OF ENERGY	96,899	-
U.S. Dept of Energy	Direct	81.049	DE-SC0000661	U.S. DEPT OF ENERGY	(17,074)	-
U.S. Dept of Energy	Direct	81.049	DE-SC0002325	U.S. DEPT OF ENERGY	137,125	-
U.S. Dept of Energy	Direct	81.049	DE-SC0001525	U.S. DEPT OF ENERGY	5,007	-
U.S. Dept of Energy	Direct	81.049	DE-FG02-01ER15282	U.S. DEPT OF ENERGY	293,874	-
U.S. Dept of Energy	Direct	81.049	DE-FG02-06ER46309	U.S. DEPT OF ENERGY	155,530	-
U.S. Dept of Energy	Direct	81.049	DE-FG02-01ER15228	U.S. DEPT OF ENERGY	192,117	-
U.S. Dept of Energy	Direct	81.049	DE-SC0010847	U.S. DEPT OF ENERGY	223,022	-
U.S. Dept of Energy	Direct	81.049	DE-SC0013365	U.S. DEPT OF ENERGY	155,251	-
U.S. Dept of Energy	Direct	81.049	DE-SC0014384	U.S. DEPT OF ENERGY	52,010	(131)
U.S. Dept of Energy	Direct	81.049	DE-SC0013617	U.S. DEPT OF ENERGY	922,406	295,821
U.S. Dept of Energy	Direct	81.049	DE-SC0014108	U.S. DEPT OF ENERGY	622,015	131,937
U.S. Dept of Energy	Direct	81.049	DE-SC0014108	U.S. DEPT OF ENERGY	237,928	-
U.S. Dept of Energy	Direct	81.049	DE-SC0015904	U.S. DEPT OF ENERGY	76,666	-
U.S. Dept of Energy	Direct	81.049	DE-SC0016052	U.S. DEPT OF ENERGY	1,400	-
U.S. Dept of Energy	Direct	81.049	DE-SC0015903	U.S. DEPT OF ENERGY	1,436	-
U.S. Dept of Energy	Direct	81.049	DE-SC0007101	U.S. DEPT OF ENERGY	167,728	-
U.S. Dept of Energy	Direct	81.049	DE-SC0016948	U.S. DEPT OF ENERGY	206,061	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Energy	Direct	81.049	DE-SC0016604	U.S. DEPT OF ENERGY	\$ 167,010	\$ -
U.S. Dept of Energy	Direct	81.049	DE-SC0017342	U.S. DEPT OF ENERGY	125,607	-
U.S. Dept of Energy	Direct	81.049	DE-SC0017888	U.S. DEPT OF ENERGY	1,533	-
U.S. Dept of Energy	Direct	81.049	DE-SC0017952	U.S. DEPT OF ENERGY	42,344	-
U.S. Dept of Energy	Direct	81.049	DE-SC0017887	U.S. DEPT OF ENERGY	23,271	-
U.S. Dept of Energy	Direct	81.049	DE-SC0017889	U.S. DEPT OF ENERGY	9,660	-
U.S. Dept of Energy	Direct	81.049	DE-SC0017955	U.S. DEPT OF ENERGY	159,037	75,538
U.S. Dept of Energy	Direct	81.049	DE-SC0018269	U.S. DEPT OF ENERGY	1,365,975	768,484
U.S. Dept of Energy	Direct	81.049	DE-SC0018269	U.S. DEPT OF ENERGY	174,835	-
U.S. Dept of Energy	Direct	81.049	DE-SC0018269	U.S. DEPT OF ENERGY	245,306	-
U.S. Dept of Energy	Direct	81.049	DE-SC0018083	U.S. DEPT OF ENERGY	123,882	264,503
U.S. Dept of Energy	Direct	81.049	DE-SC0019083	U.S. DEPT OF ENERGY	12,052	-
U.S. Dept of Energy	Direct	81.049	DE-SC0013617	U.S. DEPT OF ENERGY	29,731	-
U.S. Dept of Energy	Direct	81.049	DE-SC0018362	U.S. DEPT OF ENERGY	438,455	-
U.S. Dept of Energy	Direct	81.049	DE-SC0000661	U.S. DEPT OF ENERGY	65,249,734	529,766
U.S. Dept of Energy	Direct	81.049	DE-SC0018636	U.S. DEPT OF ENERGY	190,189	-
U.S. Dept of Energy	Direct	81.049	DE-SC0000661	U.S. DEPT OF ENERGY	27,500	-
U.S. Dept of Energy	Direct	81.049	DE-SC0019209	U.S. DEPT OF ENERGY	167,018	-
U.S. Dept of Energy	Direct	81.049	DE-SC0018973	U.S. DEPT OF ENERGY	7,773	-
U.S. Dept of Energy	Direct	81.049	DE-SC0019120	U.S. DEPT OF ENERGY	76,617	-
U.S. Dept of Energy	Direct	81.049	DE-SC0019015	U.S. DEPT OF ENERGY	552,722	-
U.S. Dept of Energy	Direct	81.049	DE-SC0019259	U.S. DEPT OF ENERGY	2,654	-
U.S. Dept of Energy	Direct	81.049	DE-SC0019252	U.S. DEPT OF ENERGY	30,276	-
U.S. Dept of Energy	Direct	81.049	DE-SC0019455	U.S. DEPT OF ENERGY	119,466	-
U.S. Dept of Energy	Direct	81.049	DE-SC0019403	U.S. DEPT OF ENERGY	68,305	-
U.S. Dept of Energy	Direct	81.049	DE-SC0019072	U.S. DEPT OF ENERGY	202,875	-
U.S. Dept of Energy	Direct	81.049	DE-SC0000661	U.S. DEPT OF ENERGY	1,657,983	-
U.S. Dept of Energy	Direct	81.049	DE-SC0020451	U.S. DEPT OF ENERGY	983,697	-
U.S. Dept of Energy	Direct	81.049	DE-SC0020429	U.S. DEPT OF ENERGY	52,755	-
U.S. Dept of Energy	Direct	81.049	DE-SC0020606	U.S. DEPT OF ENERGY	168,588	-
U.S. Dept of Energy	Direct	81.049	DE-SC0021193	U.S. DEPT OF ENERGY	5,690,005	-
U.S. Dept of Energy	Direct	81.049	DE-SC0021220	U.S. DEPT OF ENERGY	494,842	-
U.S. Dept of Energy	Direct	81.049	DE-SC0020987	U.S. DEPT OF ENERGY	45,172	-
U.S. Dept of Energy	Direct	81.049	DE-SC0021235	U.S. DEPT OF ENERGY	52,126	-
U.S. Dept of Energy	Direct	81.049	DE-SC0021197	U.S. DEPT OF ENERGY	189,553	112,593
U.S. Dept of Energy	Direct	81.049	DE-SC0021152	U.S. DEPT OF ENERGY	212,634	-
U.S. Dept of Energy	Direct	81.049	DE-SC0021422	U.S. DEPT OF ENERGY	194,558	-
U.S. Dept of Energy	Direct	81.049	DE-SC0021423	U.S. DEPT OF ENERGY	149,158	-
U.S. Dept of Energy	Direct	81.049	DE-SC0013365	U.S. DEPT OF ENERGY	147,453	-
U.S. Dept of Energy	Direct	81.049	DE-SC0021938	U.S. DEPT OF ENERGY	112,464	-
U.S. Dept of Energy	Direct	81.049	DE-SC0019259	U.S. DEPT OF ENERGY	100,585	-
U.S. Dept of Energy	Direct	81.049	DE-SC0022078	U.S. DEPT OF ENERGY	143,780	-
U.S. Dept of Energy	Direct	81.049	DE-SC0022075	U.S. DEPT OF ENERGY	131,861	23,423
U.S. Dept of Energy	Direct	81.049	DE-SC0022299	U.S. DEPT OF ENERGY	216,933	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023633	U.S. DEPT OF ENERGY	40,106,034	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023516	U.S. DEPT OF ENERGY	141,062	-
U.S. Dept of Energy	Direct	81.049	DE-SC0022987	U.S. DEPT OF ENERGY	223,718	-
U.S. Dept of Energy	Direct	81.049	DE-SC0015903	U.S. DEPT OF ENERGY	251,489	-
U.S. Dept of Energy	Direct	81.049	DE-SC0022994	U.S. DEPT OF ENERGY	81,787	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023175	U.S. DEPT OF ENERGY	73,153	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023175	U.S. DEPT OF ENERGY	44,678	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023128	U.S. DEPT OF ENERGY	96,373	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023128	U.S. DEPT OF ENERGY	15,211	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023164	U.S. DEPT OF ENERGY	160,039	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023518	U.S. DEPT OF ENERGY	48,669	-
U.S. Dept of Energy	Direct	81.049	PO 100028	U.S. DEPT OF ENERGY	814,057	-
U.S. Dept of Energy	Direct	81.049	DE-SC0022075	U.S. DEPT OF ENERGY	20,145	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023395	U.S. DEPT OF ENERGY	211,708	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023395	U.S. DEPT OF ENERGY	82,152	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023395	U.S. DEPT OF ENERGY	83,785	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023395	U.S. DEPT OF ENERGY	19,308	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023395	U.S. DEPT OF ENERGY	91,946	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023395	U.S. DEPT OF ENERGY	63,595	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023395	U.S. DEPT OF ENERGY	29,830	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023633	U.S. DEPT OF ENERGY	606,282	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023529	U.S. DEPT OF ENERGY	64,178	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023211	U.S. DEPT OF ENERGY	25,003	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023658	U.S. DEPT OF ENERGY	29,531	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023648	U.S. DEPT OF ENERGY	17,081	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023688	U.S. DEPT OF ENERGY	13,878	-
U.S. Dept of Energy	Direct	81.049	DE-SC0023702	U.S. DEPT OF ENERGY	2,938	-
U.S. Dept of Energy	Direct	81.057	DE-FE0031899	U.S. DEPT OF ENERGY	139,631	-
U.S. Dept of Energy	Direct	81.086	DE-EE0008455	U.S. DEPT OF ENERGY	78,926	-
U.S. Dept of Energy	Direct	81.086	DE-EE0009947	U.S. DEPT OF ENERGY	396,135	-
U.S. Dept of Energy	Direct	81.087	DE-EE0009992	U.S. DEPT OF ENERGY	619,432	377,128
U.S. Dept of Energy	Direct	81.112	DE-NA0003913	U.S. DEPT OF ENERGY	152,272	-
U.S. Dept of Energy	Direct	81.112	DE-NA0003906	U.S. DEPT OF ENERGY	394,325	-
U.S. Dept of Energy	Direct	81.112	DE-NA0003885	U.S. DEPT OF ENERGY	(17)	-
U.S. Dept of Energy	Direct	81.112	DE-NA0003885	U.S. DEPT OF ENERGY	(2,218)	-
U.S. Dept of Energy	Direct	81.112	DE-NA0003908	U.S. DEPT OF ENERGY	137,465	-
U.S. Dept of Energy	Direct	81.112	DE-NA0004074	U.S. DEPT OF ENERGY	263,965	-
U.S. Dept of Energy	Direct	81.112	DE-NA0004071	U.S. DEPT OF ENERGY	40,277	-
U.S. Dept of Energy	Direct	81.117	DE-EE0009734	U.S. DEPT OF ENERGY	363,684	-
U.S. Dept of Energy	Direct	81.135	DE-AR0000991	U.S. DEPT OF ENERGY	(19,474)	152,725
U.S. Dept of Energy	Direct	81.135	DE-AR0001123	U.S. DEPT OF ENERGY	136,665	173,476
U.S. Dept of Energy	Direct	81.135	DE-AR0001288	U.S. DEPT OF ENERGY	162,552	-
Direct Total					134,197,673	2,905,263
U.S. Dept of Energy	Pass-through	81.RD	Joint Appt Hao	BROOKHAVEN SCIENCE ASSOC LLC	172,386	-
U.S. Dept of Energy	Pass-through	81.RD	344028	BROOKHAVEN NATIONAL LABORATORY	50,809	-
U.S. Dept of Energy	Pass-through	81.RD	PO1910351	SANDIA NATIONAL LABORATORIES	(149)	-
U.S. Dept of Energy	Pass-through	81.RD	7436735	LAWRENCE BERKELEY NATIONAL LABORATORY	38,012	-
U.S. Dept of Energy	Pass-through	81.RD	364776	BROOKHAVEN SCIENCE ASSOC LLC	32,168	-
U.S. Dept of Energy	Pass-through	81.RD	662608	FERMI NATIONAL ACCELERATOR LABORATORY	202,393	-
U.S. Dept of Energy	Pass-through	81.RD	305649	LOS ALAMOS NATL LABORATORY	101,085	-
U.S. Dept of Energy	Pass-through	81.RD	516887	PACIFIC NORTHWEST NATIONAL LABORATORY	4,176	-
U.S. Dept of Energy	Pass-through	81.RD	4000178111	UT BATTELLE LLC	211,769	-
U.S. Dept of Energy	Pass-through	81.RD	B642898	LAWRENCE LIVERMORE NATIONAL LABORATORY	93,651	-
U.S. Dept of Energy	Pass-through	81.RD	7535238	LAWRENCE BERKELEY NATIONAL LABORATORY	79,866	-
U.S. Dept of Energy	Pass-through	81.RD	672293	FERMI NATIONAL ACCELERATOR LABORATORY	58,005	-
U.S. Dept of Energy	Pass-through	81.RD	1F-60265	ARGONNE NATIONAL LABORATORY	24,220	-
U.S. Dept of Energy	Pass-through	81.RD	615487	LOS ALAMOS NATL LABORATORY	(6,056)	-
U.S. Dept of Energy	Pass-through	81.RD	2219962	SANDIA NATIONAL LABORATORIES	28,645	-
U.S. Dept of Energy	Pass-through	81.RD	B644717	LAWRENCE LIVERMORE NATIONAL LABORATORY	89,016	-
U.S. Dept of Energy	Pass-through	81.RD	B645448	LAWRENCE LIVERMORE NATIONAL LABORATORY	13,086	-
U.S. Dept of Energy	Pass-through	81.RD	1F-60322	ARGONNE NATIONAL LABORATORY	101,032	-
U.S. Dept of Energy	Pass-through	81.RD	1F-60428	ARGONNE NATIONAL LABORATORY	67,546	-
U.S. Dept of Energy	Pass-through	81.RD	7586167	LAWRENCE BERKELEY NATIONAL LABORATORY	98,542	-
U.S. Dept of Energy	Pass-through	81.RD	667145 Rev2	FERMI NATIONAL ACCELERATOR LABORATORY	203,506	-
U.S. Dept of Energy	Pass-through	81.RD	1F-60559	UCHICAGO ARGONNE LLC	(6,224)	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Energy	Pass-through	81.RD	1F-60562	ARGONNE NATIONAL LABORATORY	\$ 3,005	\$ -
U.S. Dept of Energy	Pass-through	81.RD	215328	STANFORD LINEAR ACCELERATOR CENTER	3,860,996	169,902
U.S. Dept of Energy	Pass-through	81.RD	IF-60581	ARGONNE NATIONAL LABORATORY	(2,196)	-
U.S. Dept of Energy	Pass-through	81.RD	682559	FERMI NATIONAL ACCELERATOR LABORATORY	47,310	-
U.S. Dept of Energy	Pass-through	81.RD	N000420858	HONEYWELL CORP	52,579	-
U.S. Dept of Energy	Pass-through	81.RD	17444	LOS ALAMOS NATL LABORATORY	106,690	-
U.S. Dept of Energy	Pass-through	81.RD	IP 538125	LOS ALAMOS NATL LABORATORY	122,997	-
U.S. Dept of Energy	Pass-through	81.RD	B650091	LAWRENCE LIVERMORE NATIONAL LABORATORY	81,292	-
U.S. Dept of Energy	Pass-through	81.RD	7618019	LAWRENCE BERKELEY NATIONAL LABORATORY	68,158	-
U.S. Dept of Energy	Pass-through	81.RD	B651015	LAWRENCE LIVERMORE NATIONAL LABORATORY	18,666	-
U.S. Dept of Energy	Pass-through	81.RD	C1756 PO EP51356	LOS ALAMOS NATL LABORATORY	75,373	-
U.S. Dept of Energy	Pass-through	81.RD	BNL-0000415351	BROOKHAVEN NATIONAL LABORATORY	13,986	-
U.S. Dept of Energy	Pass-through	81.RD	682023	FERMI NATIONAL ACCELERATOR LABORATORY	87,704	-
U.S. Dept of Energy	Pass-through	81.RD	B651921	LAWRENCE LIVERMORE NATIONAL LABORATORY	57,164	-
U.S. Dept of Energy	Pass-through	81.RD	2F-60209	ARGONNE NATIONAL LABORATORY	15,050	-
U.S. Dept of Energy	Pass-through	81.RD	DE-EE-0009869 PO 4501219333 PO 4501259580	BORG WARNER CORP	104,394	-
U.S. Dept of Energy	Pass-through	81.RD	7660758	LAWRENCE BERKELEY NATIONAL LABORATORY	43,885	-
U.S. Dept of Energy	Pass-through	81.RD	648788	PACIFIC NORTHWEST NATIONAL LABORATORY	19,568	-
U.S. Dept of Energy	Pass-through	81.RD	C3107	LOS ALAMOS NATL LABORATORY	32,346	-
U.S. Dept of Energy	Pass-through	81.RD	N000468792	HONEYWELL CORP	129,876	-
U.S. Dept of Energy	Pass-through	81.RD	226605	STANFORD LINEAR ACCELERATOR CENTER	30,626	-
U.S. Dept of Energy	Pass-through	81.RD	694211	FERMI NATIONAL ACCELERATOR LABORATORY	20,899	-
U.S. Dept of Energy	Pass-through	81.RD	B659961	LAWRENCE LIVERMORE NATIONAL LABORATORY	1,612	-
U.S. Dept of Energy	Pass-through	81.RD	698187	FERMI NATIONAL ACCELERATOR LABORATORY	8,234	-
U.S. Dept of Energy	Pass-through	81.RD	P02485395, Rev. 0	SANDIA NATIONAL LABORATORIES	32,612	-
U.S. Dept of Energy	Pass-through	81.041	MEC-18-007	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	119,505	-
U.S. Dept of Energy	Pass-through	81.049	812K980	UNIVERSITY OF WISCONSIN MADISON	4,682,239	-
U.S. Dept of Energy	Pass-through	81.049	SBR	TELLURIC LABS LLC	2,340	-
U.S. Dept of Energy	Pass-through	81.049	S00460-01	UNIVERSITY OF IOWA	49,030	-
U.S. Dept of Energy	Pass-through	81.049	SUB0000288	PRINCETON UNIV	65,218	-
U.S. Dept of Energy	Pass-through	81.049	GF70059-1	UNIVERSITY OF NORTH TEXAS	162,518	-
U.S. Dept of Energy	Pass-through	81.049	SUB0000347	PRINCETON UNIV	155,096	-
U.S. Dept of Energy	Pass-through	81.049	R02187	FLORIDA STATE UNIV	242,217	-
U.S. Dept of Energy	Pass-through	81.049	25-1215-0208-007	UNIVERSITY OF NEBRASKA - LINCOLN	135,704	-
U.S. Dept of Energy	Pass-through	81.049	SUB0000376	PRINCETON UNIV	157,808	-
U.S. Dept of Energy	Pass-through	81.049	00480465	INTEGRATED SENSORS LLC	2,944	-
U.S. Dept of Energy	Pass-through	81.049	END-7107A	NANSONIC INC	84,616	-
U.S. Dept of Energy	Pass-through	81.049	54358	MARINE BIOLOGICAL LABORATORY	89,446	-
U.S. Dept of Energy	Pass-through	81.049	UTAZ0-001012	UNIVERSITY OF TEXAS AT AUSTIN	296,001	-
U.S. Dept of Energy	Pass-through	81.049	ASUB00000681	ARIZONA STATE UNIV	292,443	-
U.S. Dept of Energy	Pass-through	81.049	IP 539346	COLLABORATIVE COMPOSITE SOLUTIONS CORP	52,835	-
U.S. Dept of Energy	Pass-through	81.049	00524176	GREAT LAKES CRYSTAL TECHNOLOGES INC	237,487	-
U.S. Dept of Energy	Pass-through	81.049	DE-SC0022415	SCINTLEX LLC	8,000	-
U.S. Dept of Energy	Pass-through	81.049	MSU-00570385	GREAT LAKES CRYSTAL TECHNOLOGES INC	65,431	-
U.S. Dept of Energy	Pass-through	81.049	C22-18	RADIATION MONITORING DEVICES INC	17,241	-
U.S. Dept of Energy	Pass-through	81.049	UWSC13586	UNIVERSITY OF WASHINGTON	39,464	-
U.S. Dept of Energy	Pass-through	81.049	00590915	HELICOD INDUSTRIES	65,205	-
U.S. Dept of Energy	Pass-through	81.049	WU-23-0291	WASHINGTON UNIV IN ST LOUIS	48,303	-
U.S. Dept of Energy	Pass-through	81.049	DE-SC0022406	GREAT LAKES CRYSTAL TECHNOLOGES INC	32,413	-
U.S. Dept of Energy	Pass-through	81.086	DE-EE0009883	SUPSTREAM GROUP INC	34,517	-
U.S. Dept of Energy	Pass-through	81.086	PR2096550	FORD MOTOR CO	807,929	-
U.S. Dept of Energy	Pass-through	81.086	4301241378	GENERAL MOTORS CORP	261,352	-
U.S. Dept of Energy	Pass-through	81.087	2108-219-2023054	CLEMSON UNIV	8,886	-
U.S. Dept of Energy	Pass-through	81.087	RP2002-EE9018	SCION PLASMA LLC	1,581	-
U.S. Dept of Energy	Pass-through	81.087	SA-20-02	REMADE INST	176,586	-
U.S. Dept of Energy	Pass-through	81.087	20-01-MM-4077	REMADE INST	114,078	-
U.S. Dept of Energy	Pass-through	81.087	SUBK00013541	UNIVERSITY OF MICHIGAN	57,405	-
U.S. Dept of Energy	Pass-through	81.087	20-01-RR-4032	REMADE INST	143,373	-
U.S. Dept of Energy	Pass-through	81.112	18045	UNIVERSITY OF ILLINOIS CHICAGO	80,313	-
U.S. Dept of Energy	Pass-through	81.113	00009330	UNIVERSITY OF CALIFORNIA BERKELEY	2,132	-
U.S. Dept of Energy	Pass-through	81.113	00010831	UNIVERSITY OF CALIFORNIA BERKELEY	450,606	-
U.S. Dept of Energy	Pass-through	81.135	G0170A-A	OREGON STATE UNIV	177,998	-
U.S. Dept of Energy	Pass-through	81.135	CR10816 (CON-80002172)	YALE UNIV	34 (9)	-
U.S. Dept of Energy	Pass-through	81.135	157593456	UNIVERSITY OF CONNECTICUT	155,767	-
U.S. Dept of Energy	Pass-through	81.135	2022.0016-1516	REDOXBLOX INC	184,083	-
U.S. Dept of Energy	Pass-through	81.135	14000698-008	PURDUE UNIV	107,097	-
U.S. Dept of Energy	Pass-through	81.135	14000698-008	PURDUE UNIV	44,799	-
U.S. Dept of Energy	Pass-through	81.135	14000698-008	Purdue Univ	31,820	-
Pass-through Total					16,624,431	169,902
U.S. Dept of Energy Total					150,822,104	3,075,165
U.S. Dept of Education	Direct	84.015	P015B180155-FLAS	U.S. DEPT OF EDUCATION	110,987	-
U.S. Dept of Education	Direct	84.015	P015A190155-Title VI	U.S. DEPT OF EDUCATION	105,521	-
U.S. Dept of Education	Direct	84.015	P015A220029	U.S. DEPT OF EDUCATION	144,808	-
U.S. Dept of Education	Direct	84.015	P015A220041	U.S. DEPT OF EDUCATION	164,161	-
U.S. Dept of Education	Direct	84.200	P200A180025	U.S. DEPT OF EDUCATION	35,599	-
U.S. Dept of Education	Direct	84.200	P200A180025	U.S. DEPT OF EDUCATION	6,582	-
U.S. Dept of Education	Direct	84.200	P200A180025	U.S. DEPT OF EDUCATION	3,250	-
U.S. Dept of Education	Direct	84.220	P220A180001	U.S. DEPT OF EDUCATION	337,673	-
U.S. Dept of Education	Direct	84.220	P220A220002	U.S. DEPT OF EDUCATION	61,788	-
U.S. Dept of Education	Direct	84.305	R305A160049	U.S. DEPT OF EDUCATION	9,648	-
U.S. Dept of Education	Direct	84.305	R305H190004	INST OF EDUCATION SCIENCES	1,062,014	535,839
U.S. Dept of Education	Direct	84.305	R305A210061	U.S. DEPT OF EDUCATION	328,271	-
U.S. Dept of Education	Direct	84.305	R305A210122	INST OF EDUCATION SCIENCES	484,143	54,386
U.S. Dept of Education	Direct	84.305	R305D220022	INST OF EDUCATION SCIENCES	79,019	-
U.S. Dept of Education	Direct	84.324	R324A150063 - 18	U.S. DEPT OF EDUCATION	(3)	-
U.S. Dept of Education	Direct	84.324	R324B170003	U.S. DEPT OF EDUCATION	8,810	-
U.S. Dept of Education	Direct	84.324	R324A180122	INST OF EDUCATION SCIENCES	213,184	-
U.S. Dept of Education	Direct	84.324	R324L190002	INST OF EDUCATION SCIENCES	99,890	-
U.S. Dept of Education	Direct	84.324	R324A210013	INST OF EDUCATION SCIENCES	331,731	10,536
U.S. Dept of Education	Direct	84.325	H325K200018	U.S. DEPT OF EDUCATION	78,084	-
U.S. Dept of Education	Direct	84.325	H325K200018	U.S. DEPT OF EDUCATION	156,384	-
Direct Total					3,821,544	600,761
U.S. Dept of Education	Pass-through	84.264	0000001828	UNIVERSITY OF WISCONSIN	69,675	-
U.S. Dept of Education	Pass-through	84.287	330022550	MICHIGAN DEPT OF EDUCATION	972	-
U.S. Dept of Education	Pass-through	84.287	232122	MICHIGAN DEPT OF EDUCATION	483,580	-
U.S. Dept of Education	Pass-through	84.305	TUL-SCC-556404-18/19	TULANE UNIV	254,523	-
U.S. Dept of Education	Pass-through	84.305	511149-01	TEACHERS COLLEGE COLUMBIA UNIV	128,614	-
U.S. Dept of Education	Pass-through	84.305	162078350	UNIVERSITY OF CONNECTICUT	162,960	-
U.S. Dept of Education	Pass-through	84.305	108191-5121403	HARVARD UNIV	60,835	-
U.S. Dept of Education	Pass-through	84.411	151182	HIGHSCOPE EDUCATIONAL RESEARCH FOUNDATION	99,275	-
Pass-through Total					1,260,434	-
U.S. Dept of Education Total					5,081,978	600,761
U.S. Dept of Health and Human Services	Direct	93.RD	200-2016-89831	CENTERS FOR DISEASE CONTROL & PREVENTION	1,243	-
U.S. Dept of Health and Human Services	Direct	93.RD	200-2016-89831	CENTERS FOR DISEASE CONTROL & PREVENTION	3,384	-
U.S. Dept of Health and Human Services	Direct	93.103	1U01FD007790-01	FOOD & DRUG ADMINISTRATION	110,144	-
U.S. Dept of Health and Human Services	Direct	93.113	R01ES017537	NATIONAL INST OF HEALTH	1,732	(2,148)
U.S. Dept of Health and Human Services	Direct	93.113	R01ES027353	NATIONAL INST OF HEALTH	153,452	74,834

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Health and Human Services	Direct	93.113	5R00ES024795-05	NATIONAL INST OF HEALTH	\$ 45,328	\$ -
U.S. Dept of Health and Human Services	Direct	93.113	K01ES029115	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	9,357	-
U.S. Dept of Health and Human Services	Direct	93.113	K01ES028047	NATIONAL INST OF HEALTH	(988)	-
U.S. Dept of Health and Human Services	Direct	93.113	R01ES029227	NATIONAL INST OF HEALTH	1,166,389	638,246
U.S. Dept of Health and Human Services	Direct	93.113	R01ES029541	NATIONAL INST OF HEALTH	275,137	-
U.S. Dept of Health and Human Services	Direct	93.113	R03ES030766	NATIONAL INST OF HEALTH	3	-
U.S. Dept of Health and Human Services	Direct	93.113	R25ES025060	NATIONAL INST OF HEALTH	6,286	-
U.S. Dept of Health and Human Services	Direct	93.113	R25ES025060	NATIONAL INST OF HEALTH	76,551	-
U.S. Dept of Health and Human Services	Direct	93.113	T32ES007255	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	14,274	-
U.S. Dept of Health and Human Services	Direct	93.113	R01ES031937	NATIONAL INST OF HEALTH	320,176	190,430
U.S. Dept of Health and Human Services	Direct	93.113	R01ES030695	NATIONAL INST OF HEALTH	342,644	27,453
U.S. Dept of Health and Human Services	Direct	93.113	R21ES031345	NATIONAL INST OF HEALTH	101,154	12,833
U.S. Dept of Health and Human Services	Direct	93.113	R00ES028744	NATIONAL INST OF HEALTH	333,055	-
U.S. Dept of Health and Human Services	Direct	93.113	R01ES029541	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	34,053	-
U.S. Dept of Health and Human Services	Direct	93.113	R01ES032227	NATIONAL INST OF HEALTH	413,372	132,159
U.S. Dept of Health and Human Services	Direct	93.113	R01ES031237	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	139,570	15,315
U.S. Dept of Health and Human Services	Direct	93.113	R01ES030695	NATIONAL INST OF HEALTH	96,533	-
U.S. Dept of Health and Human Services	Direct	93.113	T32ES007255	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	315,433	-
U.S. Dept of Health and Human Services	Direct	93.113	R01ES033515	NATIONAL INST OF HEALTH	581,635	56,446
U.S. Dept of Health and Human Services	Direct	93.113	5T32ES007255-34	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	78,108	-
U.S. Dept of Health and Human Services	Direct	93.113	1R01ES033898-01	NATIONAL INST OF HEALTH	300,737	-
U.S. Dept of Health and Human Services	Direct	93.113	1R21ES033830-01A1	NATIONAL INST OF HEALTH	105,129	-
U.S. Dept of Health and Human Services	Direct	93.113	2R01ES027353-06	NATIONAL INST OF HEALTH	127,035	-
U.S. Dept of Health and Human Services	Direct	93.113	4R00ES032488-03	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	55,859	-
U.S. Dept of Health and Human Services	Direct	93.121	R01DE026125	NATIONAL INST OF DENTAL & CRANIOFACIAL RESEARCH	5,103	8,242
U.S. Dept of Health and Human Services	Direct	93.121	R03DE027108	NATIONAL INST OF HEALTH	17,585	-
U.S. Dept of Health and Human Services	Direct	93.121	K25DE028949	NATIONAL INST OF HEALTH	154,144	-
U.S. Dept of Health and Human Services	Direct	93.121	R01DE029524	NATIONAL INST OF HEALTH	523,813	256,226
U.S. Dept of Health and Human Services	Direct	93.121	1R5DE030437-01	NATIONAL INST OF DENTAL & CRANIOFACIAL RESEARCH	104,847	18,826
U.S. Dept of Health and Human Services	Direct	93.121	1R03DE032357-01	NATIONAL INST OF HEALTH	34,374	-
U.S. Dept of Health and Human Services	Direct	93.121	7R21DE031765-02	NATIONAL INST OF HEALTH	16,950	-
U.S. Dept of Health and Human Services	Direct	93.136	1 U01CE003395-01-00	CENTERS FOR DISEASE CONTROL & PREVENTION	521,417	-
U.S. Dept of Health and Human Services	Direct	93.143	2P42ES004911-27A1-Project1	NATIONAL INST OF HEALTH	207,272	-
U.S. Dept of Health and Human Services	Direct	93.143	2P42ES004911-27A1-Project2	NATIONAL INST OF HEALTH	122,246	-
U.S. Dept of Health and Human Services	Direct	93.143	2P42ES004911-27A1-Project3A	NATIONAL INST OF HEALTH	113,243	-
U.S. Dept of Health and Human Services	Direct	93.143	2P42ES004911-27A1-Project3B	NATIONAL INST OF HEALTH	38,215	-
U.S. Dept of Health and Human Services	Direct	93.143	2P42ES004911-27A1-Project4	NATIONAL INST OF HEALTH	115,804	-
U.S. Dept of Health and Human Services	Direct	93.143	2P42ES004911-27A1-Project5	NATIONAL INST OF HEALTH	77,450	-
U.S. Dept of Health and Human Services	Direct	93.143	2P42ES004911-27A1-DMAC	NATIONAL INST OF HEALTH	97,784	-
U.S. Dept of Health and Human Services	Direct	93.143	2P42ES004911-27A1-CEC	NATIONAL INST OF HEALTH	94,496	-
U.S. Dept of Health and Human Services	Direct	93.143	2P42ES004911-27A1-RETCC	NATIONAL INST OF HEALTH	74,058	-
U.S. Dept of Health and Human Services	Direct	93.143	2P42ES004911-27A1-CMC	NATIONAL INST OF HEALTH	85,557	-
U.S. Dept of Health and Human Services	Direct	93.143	2P42ES004911-27A1-Admin	NATIONAL INST OF HEALTH	136,865	-
U.S. Dept of Health and Human Services	Direct	93.172	R21HG010789	NATIONAL INST OF HEALTH	1,809	-
U.S. Dept of Health and Human Services	Direct	93.172	R21HG010789	NATIONAL INST OF HEALTH	4,315	-
U.S. Dept of Health and Human Services	Direct	93.172	R03HG011674	NATIONAL INST OF HEALTH	65,063	-
U.S. Dept of Health and Human Services	Direct	93.173	R21DC015550	NATIONAL INST ON DEAFNESS & OTHER COMMUNICATION DISORDERS	12,646	-
U.S. Dept of Health and Human Services	Direct	93.173	5R21DC016102-03	NATIONAL INST OF HEALTH	10,185	-
U.S. Dept of Health and Human Services	Direct	93.173	K01DC017751	NATIONAL INST OF HEALTH	152,984	-
U.S. Dept of Health and Human Services	Direct	93.173	R01DC018000	NATIONAL INST OF HEALTH	415,074	10,307
U.S. Dept of Health and Human Services	Direct	93.173	R01DC018795	NATIONAL INST OF HEALTH	416,496	-
U.S. Dept of Health and Human Services	Direct	93.173	R01DC012315	NATIONAL INST OF HEALTH	401,214	106,019
U.S. Dept of Health and Human Services	Direct	93.173	1R01DC019098-01A1	NATIONAL INST ON DEAFNESS & OTHER COMMUNICATION DISORDERS	285,498	-
U.S. Dept of Health and Human Services	Direct	93.173	R01DC018000	NATIONAL INST OF HEALTH	46,186	17,287
U.S. Dept of Health and Human Services	Direct	93.173	1R01DC020165-01	NATIONAL INST OF HEALTH	424,800	-
U.S. Dept of Health and Human Services	Direct	93.173	1R21DC020003-01	NATIONAL INST OF HEALTH	169,834	-
U.S. Dept of Health and Human Services	Direct	93.173	1R01DC019402-01A1	NATIONAL INST OF HEALTH	246,619	-
U.S. Dept of Health and Human Services	Direct	93.185	COVID-19 - 1 NU21P000595-01-00	CENTERS FOR DISEASE CONTROL & PREVENTION	2,546,002	3,368,717
U.S. Dept of Health and Human Services	Direct	93.213	R00AT009156	NATIONAL INST OF HEALTH	136,883	-
U.S. Dept of Health and Human Services	Direct	93.213	K23AT009458	NATIONAL INST OF HEALTH	70,863	13,177
U.S. Dept of Health and Human Services	Direct	93.226	R01HS025386	AGENCY FOR HEALTHCARE RESEARCH & QUALITY	299,687	45,063
U.S. Dept of Health and Human Services	Direct	93.226	1R03HS029329-01	AGENCY FOR HEALTHCARE RESEARCH & QUALITY	5,163	-
U.S. Dept of Health and Human Services	Direct	93.242	R01MH108511	NATIONAL INST OF HEALTH	47,207	664
U.S. Dept of Health and Human Services	Direct	93.242	R01MH111604	NATIONAL INST OF HEALTH	(54,356)	-
U.S. Dept of Health and Human Services	Direct	93.242	R01MH111276	NATIONAL INST OF HEALTH	165,483	-
U.S. Dept of Health and Human Services	Direct	93.242	R01MH111715	NATIONAL INST OF HEALTH	84,587	16,017
U.S. Dept of Health and Human Services	Direct	93.242	R01MH111715	NATIONAL INST OF HEALTH	(1,485)	-
U.S. Dept of Health and Human Services	Direct	93.242	R01MH112644	NATIONAL INST OF HEALTH	79,163	4,183
U.S. Dept of Health and Human Services	Direct	93.242	R01MH114883	NATIONAL INST OF MENTAL HEALTH	462,817	230,263
U.S. Dept of Health and Human Services	Direct	93.242	UH3MH114249	NATIONAL INST OF HEALTH	397,004	236,251
U.S. Dept of Health and Human Services	Direct	93.242	5R01MH108511-03S1	NATIONAL INST OF HEALTH	2,367	-
U.S. Dept of Health and Human Services	Direct	93.242	R01MH119149	NATIONAL INST OF HEALTH	452,535	35,324
U.S. Dept of Health and Human Services	Direct	93.242	R00MH10665	NATIONAL INST OF MENTAL HEALTH	704	-
U.S. Dept of Health and Human Services	Direct	93.242	R01MH118948	NATIONAL INST OF HEALTH	576,522	56,456
U.S. Dept of Health and Human Services	Direct	93.242	R01MH117115-03S1	NATIONAL INST OF HEALTH	7,065	-
U.S. Dept of Health and Human Services	Direct	93.242	R34MH118402	NATIONAL INST OF MENTAL HEALTH	192,547	18,504
U.S. Dept of Health and Human Services	Direct	93.242	R01MH122725	NATIONAL INST OF HEALTH	768,240	-
U.S. Dept of Health and Human Services	Direct	93.242	UG3MH114249	NATIONAL INST OF HEALTH	84,330	10,920
U.S. Dept of Health and Human Services	Direct	93.242	R01MH124992	NATIONAL INST OF HEALTH	474,492	19,059
U.S. Dept of Health and Human Services	Direct	93.242	R01MH121417	NATIONAL INST OF HEALTH	505,130	46,097
U.S. Dept of Health and Human Services	Direct	93.242	F31MH125604	NATIONAL INST OF HEALTH	21,357	-
U.S. Dept of Health and Human Services	Direct	93.242	F31MH125604	NATIONAL INST OF HEALTH	3,556	-
U.S. Dept of Health and Human Services	Direct	93.242	R01MH123716	NATIONAL INST OF HEALTH	943,884	205,998
U.S. Dept of Health and Human Services	Direct	93.242	R01MH111715	NATIONAL INST OF HEALTH	179,605	-
U.S. Dept of Health and Human Services	Direct	93.242	1RF1MH126706-01	NATIONAL INST OF MENTAL HEALTH	653,983	61,082
U.S. Dept of Health and Human Services	Direct	93.242	F31MH127814	NATIONAL INST OF HEALTH	30,605	-
U.S. Dept of Health and Human Services	Direct	93.242	R01MH127614	NATIONAL INST OF HEALTH	4,078	-
U.S. Dept of Health and Human Services	Direct	93.242	R34MH127061	NATIONAL INST OF HEALTH	227,764	-
U.S. Dept of Health and Human Services	Direct	93.242	R01MH128196	NATIONAL INST OF MENTAL HEALTH	417,345	-
U.S. Dept of Health and Human Services	Direct	93.242	R01MH125806	NATIONAL INST OF HEALTH	406,725	-
U.S. Dept of Health and Human Services	Direct	93.242	1R01MH130948-01	NATIONAL INST OF MENTAL HEALTH	542,589	-
U.S. Dept of Health and Human Services	Direct	93.242	1P50MH127512-01A1	NATIONAL INST OF MENTAL HEALTH	844,963	-
U.S. Dept of Health and Human Services	Direct	93.242	1P50MH127512-01A1	NATIONAL INST OF MENTAL HEALTH	136,645	-
U.S. Dept of Health and Human Services	Direct	93.242	1P50MH127512-01A1	NATIONAL INST OF MENTAL HEALTH	108,564	-
U.S. Dept of Health and Human Services	Direct	93.242	1P50MH127512-01A1	NATIONAL INST OF MENTAL HEALTH	83,372	-
U.S. Dept of Health and Human Services	Direct	93.242	2R01MH111604-06A1	NATIONAL INST OF HEALTH	634,052	-
U.S. Dept of Health and Human Services	Direct	93.242	3UH3MH114249-05S1	NATIONAL INST OF HEALTH	74,898	-
U.S. Dept of Health and Human Services	Direct	93.262	1 R21OH012384-01-00	NATIONAL INST FOR OCCUPATIONAL SAFETY & HEALTH	69,780	-
U.S. Dept of Health and Human Services	Direct	93.273	R01AA026596	NATIONAL INST OF ALCOHOL ABUSE & ALCOHOLISM	546,771	107,755
U.S. Dept of Health and Human Services	Direct	93.273	R01AA026213	NATIONAL INST OF HEALTH	127,925	30,749
U.S. Dept of Health and Human Services	Direct	93.279	R01DA039695	NATIONAL INST OF HEALTH	3,119	-
U.S. Dept of Health and Human Services	Direct	93.279	R01DA047180	NATIONAL INST OF HEALTH	453,722	-
U.S. Dept of Health and Human Services	Direct	93.279	K01DA046516	NATIONAL INST ON DRUG ABUSE	120,402	-
U.S. Dept of Health and Human Services	Direct	93.279	R25DA051249	NATIONAL INST OF HEALTH	162,029	72,755
U.S. Dept of Health and Human Services	Direct	93.279	R36DA054487	NATIONAL INST ON DRUG ABUSE	7,926	-
U.S. Dept of Health and Human Services	Direct	93.279	1R01DA053047-01	NATIONAL INST OF HEALTH	499,506	-
U.S. Dept of Health and Human Services	Direct	93.279	R25DA056910	NATIONAL INST OF HEALTH	119,439	-
U.S. Dept of Health and Human Services	Direct	93.286	R01EB012079	NATIONAL INST OF HEALTH	186,588	-
U.S. Dept of Health and Human Services	Direct	93.286	R01EB029418	NATIONAL INST OF HEALTH	93,429	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Health and Human Services	Direct	93.286	U24EB028990	NATIONAL INST OF HEALTH	\$ 334,653	\$ 228,825
U.S. Dept of Health and Human Services	Direct	93.286	U24EB028990	NATIONAL INST OF HEALTH	57,453	-
U.S. Dept of Health and Human Services	Direct	93.286	1R21EB32110-01	NATIONAL INST OF HEALTH	209,985	-
U.S. Dept of Health and Human Services	Direct	93.286	1R01EB030565-01	NATIONAL INST OF HEALTH	740,109	-
U.S. Dept of Health and Human Services	Direct	93.286	R03EB033521	NATIONAL INST OF HEALTH	51,701	-
U.S. Dept of Health and Human Services	Direct	93.286	R21EB033554-01	NATIONAL INST OF HEALTH	145,972	-
U.S. Dept of Health and Human Services	Direct	93.286	1R21EB030762-01A1	NATIONAL INST OF HEALTH	63,558	-
U.S. Dept of Health and Human Services	Direct	93.307	U54MD011227	NATIONAL INST ON MINORITY HEALTH & HEALTH DISPARITIES	158,983	27,169
U.S. Dept of Health and Human Services	Direct	93.307	R21MD015909	NATIONAL INST OF HEALTH	83,925	23,191
U.S. Dept of Health and Human Services	Direct	93.307	R01MD016003	NATIONAL INST OF HEALTH	606,491	98,188
U.S. Dept of Health and Human Services	Direct	93.307	R01MD015079	NATIONAL INST ON MINORITY HEALTH & HEALTH DISPARITIES	129,663	-
U.S. Dept of Health and Human Services	Direct	93.307	3R01MD016003-02S1	NATIONAL INST OF HEALTH	106,482	-
U.S. Dept of Health and Human Services	Direct	93.307	R01MD015783	NATIONAL INST OF HEALTH	344,710	2,631
U.S. Dept of Health and Human Services	Direct	93.310	1R01MD018051-01	NATIONAL INST OF HEALTH	79,065	-
U.S. Dept of Health and Human Services	Direct	93.310	UH3OD023285	NATIONAL INST OF HEALTH	3,713,437	1,323,382
U.S. Dept of Health and Human Services	Direct	93.310	UH3OD023285	NATIONAL INST OF HEALTH	25,160	-
U.S. Dept of Health and Human Services	Direct	93.310	UH3OD023285	NATIONAL INST OF HEALTH	30,633	45,152
U.S. Dept of Health and Human Services	Direct	93.310	UH3OD023285	NATIONAL INST OF HEALTH	170,148	-
U.S. Dept of Health and Human Services	Direct	93.310	3UH3OD023285-06S1	NATIONAL INST OF HEALTH	133,617	-
U.S. Dept of Health and Human Services	Direct	93.351	R13OD012091	NATIONAL INST OF HEALTH	33,075	-
U.S. Dept of Health and Human Services	Direct	93.351	R24OD034058	NATIONAL INST OF HEALTH	48,565	-
U.S. Dept of Health and Human Services	Direct	93.361	R00NR017191	NATIONAL INST OF HEALTH	151,709	-
U.S. Dept of Health and Human Services	Direct	93.361	R01NR014484	NATIONAL INST OF HEALTH	440,313	263,534
U.S. Dept of Health and Human Services	Direct	93.361	R21NR017958	NATIONAL INST OF HEALTH	134,656	-
U.S. Dept of Health and Human Services	Direct	93.361	7R15NR018828-02	NATIONAL INST OF NURSING RESEARCH	37,368	-
U.S. Dept of Health and Human Services	Direct	93.361	R01NR017628	NATIONAL INST OF HEALTH	286,384	180,781
U.S. Dept of Health and Human Services	Direct	93.361	R01NR017628	NATIONAL INST OF HEALTH	45,901	-
U.S. Dept of Health and Human Services	Direct	93.393	R01CA225105	NATIONAL INST OF HEALTH	379,740	-
U.S. Dept of Health and Human Services	Direct	93.393	R01CA226690	NATIONAL INST OF HEALTH	249,967	44,454
U.S. Dept of Health and Human Services	Direct	93.393	1R01CA225105-02S1	NATIONAL INST OF HEALTH	24,225	-
U.S. Dept of Health and Human Services	Direct	93.393	K00CA245821	NATIONAL CANCER INST	91,606	-
U.S. Dept of Health and Human Services	Direct	93.393	R01CA258314	NATIONAL INST OF HEALTH	530,846	-
U.S. Dept of Health and Human Services	Direct	93.393	1R37CA269076-01A1	NATIONAL INST OF HEALTH	228,651	-
U.S. Dept of Health and Human Services	Direct	93.394	R01CA239187	NATIONAL INST OF HEALTH	665,174	109,166
U.S. Dept of Health and Human Services	Direct	93.394	COVID-19 - U01CA260469	NATIONAL INST OF HEALTH	283,966	28,150
U.S. Dept of Health and Human Services	Direct	93.394	4U01CA260469-02	NATIONAL INST OF HEALTH	392,108	-
U.S. Dept of Health and Human Services	Direct	93.395	R21CA240975	NATIONAL INST OF HEALTH	24,595	-
U.S. Dept of Health and Human Services	Direct	93.395	R01CA244491	NATIONAL INST OF HEALTH	261,000	-
U.S. Dept of Health and Human Services	Direct	93.395	R21CA252430	NATIONAL INST OF HEALTH	118,751	-
U.S. Dept of Health and Human Services	Direct	93.395	1R01CA261691-01	NATIONAL INST OF HEALTH	681,800	-
U.S. Dept of Health and Human Services	Direct	93.395	1R21CA263133-01	NATIONAL CANCER INST	146,883	-
U.S. Dept of Health and Human Services	Direct	93.395	7R01CA221771-04	NATIONAL CANCER INST	700,782	91,749
U.S. Dept of Health and Human Services	Direct	93.395	1R21CA245343-01A1	NATIONAL CANCER INST	186,846	11,922
U.S. Dept of Health and Human Services	Direct	93.395	1R21CA270588-01A1	NATIONAL INST OF HEALTH	73,748	-
U.S. Dept of Health and Human Services	Direct	93.396	R01CA247863	NATIONAL INST OF HEALTH	370,639	179,273
U.S. Dept of Health and Human Services	Direct	93.396	1R01CA264944-01A1	NATIONAL INST OF HEALTH	45,578	-
U.S. Dept of Health and Human Services	Direct	93.396	R01CA270136	NATIONAL INST OF HEALTH	431,343	-
U.S. Dept of Health and Human Services	Direct	93.398	K99CA252152	NATIONAL CANCER INST	9,717	-
U.S. Dept of Health and Human Services	Direct	93.398	1R25CA254846-01A1	NATIONAL INST OF HEALTH	110,655	-
U.S. Dept of Health and Human Services	Direct	93.583	3R33NS099416-03S1	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	256	-
U.S. Dept of Health and Human Services	Direct	93.837	R25HL108864	NATIONAL INST OF HEALTH	30,308	-
U.S. Dept of Health and Human Services	Direct	93.837	R01HL137694	NATIONAL INST OF HEALTH	140,897	-
U.S. Dept of Health and Human Services	Direct	93.837	R25HL140319	NATIONAL HEART LUNG & BLOOD INST	173,364	-
U.S. Dept of Health and Human Services	Direct	93.837	K01HL135464	NATIONAL HEART LUNG & BLOOD INST	(1,865)	-
U.S. Dept of Health and Human Services	Direct	93.837	R01HL151413	NATIONAL INST OF HEALTH	471,394	-
U.S. Dept of Health and Human Services	Direct	93.837	F31HL152623	NATIONAL INST OF HEALTH	25,253	-
U.S. Dept of Health and Human Services	Direct	93.837	F31HL152623	NATIONAL INST OF HEALTH	4,390	-
U.S. Dept of Health and Human Services	Direct	93.837	R01HL149777	NATIONAL INST OF HEALTH	789,063	7,047
U.S. Dept of Health and Human Services	Direct	93.837	R25HL103156	NATIONAL INST OF HEALTH	119,384	-
U.S. Dept of Health and Human Services	Direct	93.837	R01HL151505	NATIONAL INST OF HEALTH	536,507	12,544
U.S. Dept of Health and Human Services	Direct	93.837	R33HL144896	NATIONAL HEART LUNG & BLOOD INST	772,605	11,256
U.S. Dept of Health and Human Services	Direct	93.837	P01HL152951	NATIONAL INST OF HEALTH	1,258	-
U.S. Dept of Health and Human Services	Direct	93.837	1P01HL152951-01A1	NATIONAL INST OF HEALTH	61,255	-
U.S. Dept of Health and Human Services	Direct	93.837	1P01HL152951-01A1	NATIONAL INST OF HEALTH	349,088	-
U.S. Dept of Health and Human Services	Direct	93.837	1P01HL152951-01A1	NATIONAL INST OF HEALTH	249,562	-
U.S. Dept of Health and Human Services	Direct	93.837	1P01HL152951-01A1	NATIONAL INST OF HEALTH	201,535	-
U.S. Dept of Health and Human Services	Direct	93.837	1P01HL152951-01A1	NATIONAL INST OF HEALTH	335,476	-
U.S. Dept of Health and Human Services	Direct	93.837	1P01HL152951-01A1	NATIONAL INST OF HEALTH	385,762	-
U.S. Dept of Health and Human Services	Direct	93.837	1P01HL152951-01A1	NATIONAL INST OF HEALTH	290,605	-
U.S. Dept of Health and Human Services	Direct	93.837	1P01HL152951-01A1	NATIONAL INST OF HEALTH	371,535	-
U.S. Dept of Health and Human Services	Direct	93.837	1R56HL164575-01	NATIONAL INST OF HEALTH	232,472	-
U.S. Dept of Health and Human Services	Direct	93.837	3R25HL103156-12S1	NATIONAL INST OF HEALTH	23,402	-
U.S. Dept of Health and Human Services	Direct	93.838	R01HL153165	NATIONAL INST OF HEALTH	573,282	44,249
U.S. Dept of Health and Human Services	Direct	93.839	R01HL156440	NATIONAL INST OF HEALTH	537,323	96,949
U.S. Dept of Health and Human Services	Direct	93.847	1R01AR075470	NATIONAL INST OF HEALTH	258,813	15,945
U.S. Dept of Health and Human Services	Direct	93.846	K01AR081389	NATIONAL INST OF HEALTH	112,295	-
U.S. Dept of Health and Human Services	Direct	93.846	7R01AR078781-02	NATIONAL INST OF HEALTH	14,259	-
U.S. Dept of Health and Human Services	Direct	93.846	7K01AR073340-07	NATIONAL INST OF HEALTH	30,009	-
U.S. Dept of Health and Human Services	Direct	93.847	5R01DK107697-04	NATIONAL INST OF HEALTH	(751)	-
U.S. Dept of Health and Human Services	Direct	93.847	5R01DK111475-04	NATIONAL INST OF HEALTH	29,342	-
U.S. Dept of Health and Human Services	Direct	93.847	5R01DK105468-06	NATIONAL INST OF HEALTH	(1,224)	45,874
U.S. Dept of Health and Human Services	Direct	93.847	R01DK105503	NATIONAL INST OF HEALTH	(153)	2,356
U.S. Dept of Health and Human Services	Direct	93.847	R01DK120862	NATIONAL INST OF HEALTH	248,751	56,454
U.S. Dept of Health and Human Services	Direct	93.847	R01DK119615	NATIONAL INST OF HEALTH	330,577	144,443
U.S. Dept of Health and Human Services	Direct	93.847	R01DK120289	NATIONAL INST OF HEALTH	516,220	42,813
U.S. Dept of Health and Human Services	Direct	93.847	R01DK121272	NATIONAL INST OF HEALTH	335,432	26,608
U.S. Dept of Health and Human Services	Direct	93.847	R01DK103808	NATIONAL INST OF HEALTH	446,294	-
U.S. Dept of Health and Human Services	Direct	93.847	F30DK124987	NATIONAL INST OF HEALTH	47,003	-
U.S. Dept of Health and Human Services	Direct	93.847	F30DK124987	NATIONAL INST OF HEALTH	6,521	-
U.S. Dept of Health and Human Services	Direct	93.847	R01DK122813	NATIONAL INST OF HEALTH	351,282	53,890
U.S. Dept of Health and Human Services	Direct	93.847	R01DK103723	NATIONAL INST OF HEALTH	385,661	-
U.S. Dept of Health and Human Services	Direct	93.847	R01DK119615	NATIONAL INST DIABETES & DIGESTIVE & KIDNEY DISEASES	56,198	-
U.S. Dept of Health and Human Services	Direct	93.847	F31DK127732	NATIONAL INST OF HEALTH	25,009	-
U.S. Dept of Health and Human Services	Direct	93.847	F31DK127732	NATIONAL INST OF HEALTH	2,282	-
U.S. Dept of Health and Human Services	Direct	93.847	3R01DK121272-03S1	NATIONAL INST OF HEALTH	236,994	-
U.S. Dept of Health and Human Services	Direct	93.847	K99DK129710	NATIONAL INST OF HEALTH	33,468	-
U.S. Dept of Health and Human Services	Direct	93.847	1R01DK131417-01	NATIONAL INST OF HEALTH	445,589	2,500
U.S. Dept of Health and Human Services	Direct	93.847	1F31DK134157-01	NATIONAL INST OF HEALTH	26,000	-
U.S. Dept of Health and Human Services	Direct	93.847	1F31DK134157-01	NATIONAL INST OF HEALTH	2,931	-
U.S. Dept of Health and Human Services	Direct	93.847	1R01DK135054 - 01	NATIONAL INST OF HEALTH	2,853	-
U.S. Dept of Health and Human Services	Direct	93.847	1R01DK135649-01	NATIONAL INST OF HEALTH	15,742	-
U.S. Dept of Health and Human Services	Direct	93.853	5R00NS096108-04	NATIONAL INST OF HEALTH	52,531	-
U.S. Dept of Health and Human Services	Direct	93.853	R01NS072171	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	(428)	-
U.S. Dept of Health and Human Services	Direct	93.853	R01NS098231	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	262,670	-
U.S. Dept of Health and Human Services	Direct	93.853	R01NS105888	NATIONAL INST OF HEALTH	324,771	97,446
U.S. Dept of Health and Human Services	Direct	93.853	R01NS104306	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	182,990	-
U.S. Dept of Health and Human Services	Direct	93.853	R33NS099416	NATIONAL INST OF HEALTH	3	(1,775)
U.S. Dept of Health and Human Services	Direct	93.853	R01NS110398	NATIONAL INST OF HEALTH	457,486	131,136
U.S. Dept of Health and Human Services	Direct	93.853	R01NS107451	NATIONAL INST OF HEALTH	342,382	18,774

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Health and Human Services	Direct	93.853	R01NS105826	NATIONAL INST OF HEALTH	\$ 423,977	\$ -
U.S. Dept of Health and Human Services	Direct	93.853	5R00NS096108-04	NATIONAL INST OF HEALTH	6,124	-
U.S. Dept of Health and Human Services	Direct	93.853	R21NS111333	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	303	14,489
U.S. Dept of Health and Human Services	Direct	93.853	1R01NS107451-01A1S1	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	965	-
U.S. Dept of Health and Human Services	Direct	93.853	R61NS111347	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	9,931	-
U.S. Dept of Health and Human Services	Direct	93.853	1R61NS111347-01A1	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	4,402	-
U.S. Dept of Health and Human Services	Direct	93.853	1R21NS116496-01	NATIONAL INST OF HEALTH	74,735	-
U.S. Dept of Health and Human Services	Direct	93.853	UF1NS115817	NATIONAL INST OF HEALTH	515,340	256,456
U.S. Dept of Health and Human Services	Direct	93.853	R01NS116080	NATIONAL INST OF HEALTH	735,589	456,834
U.S. Dept of Health and Human Services	Direct	93.853	R01NS122510	NATIONAL INST OF HEALTH	736,339	290,048
U.S. Dept of Health and Human Services	Direct	93.853	R25NS090989	NATIONAL INST OF HEALTH	315,667	-
U.S. Dept of Health and Human Services	Direct	93.853	R21NS121393	NATIONAL INST OF HEALTH	129,216	-
U.S. Dept of Health and Human Services	Direct	93.853	R56NS117549	NATIONAL INST OF HEALTH	138,613	24,644
U.S. Dept of Health and Human Services	Direct	93.853	F31NS124244	NATIONAL INST OF HEALTH	24,982	-
U.S. Dept of Health and Human Services	Direct	93.853	F31NS124244	NATIONAL INST OF HEALTH	5,613	-
U.S. Dept of Health and Human Services	Direct	93.853	R01NS121259	NATIONAL INST OF HEALTH	635,708	-
U.S. Dept of Health and Human Services	Direct	93.853	1R01NS117636-01A1	NATIONAL INST OF HEALTH	416,321	-
U.S. Dept of Health and Human Services	Direct	93.853	1R03NS127192-01A1	NATIONAL INST OF HEALTH	48,855	-
U.S. Dept of Health and Human Services	Direct	93.853	R01NS122510	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	20,620	-
U.S. Dept of Health and Human Services	Direct	93.853	4R33NS111347-03	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	260,895	-
U.S. Dept of Health and Human Services	Direct	93.853	1R01NS130919-01	NATIONAL INST OF HEALTH	135,547	-
U.S. Dept of Health and Human Services	Direct	93.853	1R21NS123629-01A1	NATIONAL INST OF HEALTH	24,180	-
U.S. Dept of Health and Human Services	Direct	93.853	1RF1NS128611-01	NATIONAL INST OF HEALTH	214,104	-
U.S. Dept of Health and Human Services	Direct	93.853	1F9NS129171-01A1	NATIONAL INST OF HEALTH	25,619	-
U.S. Dept of Health and Human Services	Direct	93.853	1F9NS129171-01A1	NATIONAL INST OF HEALTH	3,117	-
U.S. Dept of Health and Human Services	Direct	93.853	1R21NS130159-01	NATIONAL INST OF HEALTH	115,035	-
U.S. Dept of Health and Human Services	Direct	93.853	3R01NS122510-03S2	NATIONAL INST OF HEALTH	4,811	-
U.S. Dept of Health and Human Services	Direct	93.853	1R21NS131744-01	NATIONAL INST OF HEALTH	17,893	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI121178	NATIONAL INST OF ALLERGY & INFECTIOUS DISEASES	360,461	-
U.S. Dept of Health and Human Services	Direct	93.855	1R01AI121178-01A1	NATIONAL INST OF ALLERGY & INFECTIOUS DISEASES	19,375	-
U.S. Dept of Health and Human Services	Direct	93.855	U01AI126610	NATIONAL INST OF HEALTH	980,481	1,048,359
U.S. Dept of Health and Human Services	Direct	93.855	1R01AI121178-01A1	NATIONAL INST OF ALLERGY & INFECTIOUS DISEASES	57,407	-
U.S. Dept of Health and Human Services	Direct	93.855	U19AD089683	NATIONAL INST OF ALLERGY & INFECTIOUS DISEASES	1,059,801	650,237
U.S. Dept of Health and Human Services	Direct	93.855	R01AI047153 (P)	NATIONAL INST OF ALLERGY & INFECTIOUS DISEASES	140,539	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI139039	NATIONAL INST OF HEALTH	405,270	-
U.S. Dept of Health and Human Services	Direct	93.855	R21AI142517	NATIONAL INST OF HEALTH	30,891	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI139074	NATIONAL INST OF HEALTH	402,625	-
U.S. Dept of Health and Human Services	Direct	93.855	1R21AI14395-01	NATIONAL INST OF HEALTH	69,736	(11,818)
U.S. Dept of Health and Human Services	Direct	93.855	1R21AI144504-01	NATIONAL INST OF HEALTH	103,933	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI147634	NATIONAL INST OF HEALTH	256,044	-
U.S. Dept of Health and Human Services	Direct	93.855	1R01AI147634-01	NATIONAL INST OF HEALTH	203,594	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI145504	NATIONAL INST OF HEALTH	93,687	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI145925	NATIONAL INST OF HEALTH	757,452	556,483
U.S. Dept of Health and Human Services	Direct	93.855	R01AI146210	NATIONAL INST OF HEALTH	369,606	90,375
U.S. Dept of Health and Human Services	Direct	93.855	R21AI148961	NATIONAL INST OF HEALTH	35,840	-
U.S. Dept of Health and Human Services	Direct	93.855	R21AI146504	NATIONAL INST OF HEALTH	64	-
U.S. Dept of Health and Human Services	Direct	93.855	R21AI148909	NATIONAL INST OF HEALTH	65,751	-
U.S. Dept of Health and Human Services	Direct	93.855	R21AI142173	NATIONAL INST OF HEALTH	17,489	-
U.S. Dept of Health and Human Services	Direct	93.855	R21AI148909	NATIONAL INST OF HEALTH	6,788	-
U.S. Dept of Health and Human Services	Direct	93.855	R21AI152554	NATIONAL INST OF HEALTH	691,901	-
U.S. Dept of Health and Human Services	Direct	93.855	R03AI153454	NATIONAL INST OF HEALTH	17,267	-
U.S. Dept of Health and Human Services	Direct	93.855	R21AI154192	NATIONAL INST OF HEALTH	24,637	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI150855	NATIONAL INST OF HEALTH	464,950	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI158433	NATIONAL INST OF HEALTH	552,078	202,141
U.S. Dept of Health and Human Services	Direct	93.855	COVID-19 - R21AI159928	NATIONAL INST OF HEALTH	168,452	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI150855	NATIONAL INST OF HEALTH	200,690	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI150855	NATIONAL INST OF HEALTH	83,734	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI150855	NATIONAL INST OF HEALTH	102,813	-
U.S. Dept of Health and Human Services	Direct	93.855	1R56AI150301-01A1	NATIONAL INST OF HEALTH	75,567	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI155775	NATIONAL INST OF HEALTH	286,605	-
U.S. Dept of Health and Human Services	Direct	93.855	1R01AI164266	NATIONAL INST OF HEALTH	115,904	-
U.S. Dept of Health and Human Services	Direct	93.855	1R01AI164266	NATIONAL INST OF HEALTH	3,379	-
U.S. Dept of Health and Human Services	Direct	93.855	1R01AI165518-01A1	NATIONAL INST OF HEALTH	514,901	-
U.S. Dept of Health and Human Services	Direct	93.855	1R01AI165595-01A1	NATIONAL INST OF HEALTH	216,626	-
U.S. Dept of Health and Human Services	Direct	93.855	5U19AD089683-13	NATIONAL INST OF HEALTH	271,756	-
U.S. Dept of Health and Human Services	Direct	93.855	R01AI168014	NATIONAL INST OF HEALTH	414,162	-
U.S. Dept of Health and Human Services	Direct	93.855	1R01AI173270-01	NATIONAL INST OF HEALTH	81,859	-
U.S. Dept of Health and Human Services	Direct	93.855	1R03AI176255-01	NATIONAL INST OF HEALTH	9,450	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM122085	NATIONAL INST OF HEALTH	42,591	110,916
U.S. Dept of Health and Human Services	Direct	93.859	R01GM063188	NATIONAL INST OF HEALTH	7,480	-
U.S. Dept of Health and Human Services	Direct	93.859	R25GM116761	NATIONAL INST OF HEALTH	39,627	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM124137	NATIONAL INST OF HEALTH	5,190	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM121499	NATIONAL INST OF HEALTH	168,784	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM125991	NATIONAL INST OF HEALTH	90,628	74,685
U.S. Dept of Health and Human Services	Direct	93.859	R01GM125991	NATIONAL INST OF HEALTH	37,995	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM128948	NATIONAL INST OF HEALTH	310,520	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM125743	NATIONAL INST OF HEALTH	43,465	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM127431	NATIONAL INST OF HEALTH	164,995	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM043585	NATIONAL INST OF HEALTH	155,303	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM128765	NATIONAL INST OF HEALTH	34,493	8,748
U.S. Dept of Health and Human Services	Direct	93.859	R01GM126189	NATIONAL INST OF HEALTH	335,307	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM131398	NATIONAL INST OF HEALTH	89,306	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM130794	NATIONAL INST OF HEALTH	(4,491)	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM131398	NATIONAL INST OF HEALTH	9,189	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM131759	NATIONAL INST OF HEALTH	501,293	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM131762	NATIONAL INST OF HEALTH	395,635	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM128959	NATIONAL INST OF HEALTH	203,299	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM115459	NATIONAL INST OF HEALTH	443,438	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM128959	NATIONAL INST OF HEALTH	154,179	-
U.S. Dept of Health and Human Services	Direct	93.859	R25GM132964	NATIONAL INST OF HEALTH	256,875	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM132490	NATIONAL INST OF HEALTH	249,957	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM130641	NATIONAL INST OF HEALTH	314,314	-
U.S. Dept of Health and Human Services	Direct	93.859	F32GM134595	NATIONAL INST OF HEALTH	12,210	-
U.S. Dept of Health and Human Services	Direct	93.859	F32GM134595	NATIONAL INST OF HEALTH	480	-
U.S. Dept of Health and Human Services	Direct	93.859	3R35GM126948-02S1	NATIONAL INST OF HEALTH	291	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM135929	NATIONAL INST OF HEALTH	306,889	139,767
U.S. Dept of Health and Human Services	Direct	93.859	R01GM101353	NATIONAL INST OF HEALTH	502,274	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM134307	NATIONAL INST OF HEALTH	417,062	89,234
U.S. Dept of Health and Human Services	Direct	93.859	R01GM128959	NATIONAL INST OF HEALTH	31,709	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM136637	NATIONAL INST OF HEALTH	275,992	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM136263	NATIONAL INST OF HEALTH	394,839	72,328
U.S. Dept of Health and Human Services	Direct	93.859	R35GM137919	NATIONAL INST OF HEALTH	68,527	-
U.S. Dept of Health and Human Services	Direct	93.859	5T32GM110523-07	NATIONAL INST OF HEALTH	16,561	-
U.S. Dept of Health and Human Services	Direct	93.859	F32GM139292	NATIONAL INST OF HEALTH	57,478	-
U.S. Dept of Health and Human Services	Direct	93.859	F32GM139292	NATIONAL INST OF HEALTH	10,293	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM138423	NATIONAL INST OF HEALTH	237,936	-
U.S. Dept of Health and Human Services	Direct	93.859	DP2GM142307	NATIONAL INST OF HEALTH	986,355	-
U.S. Dept of Health and Human Services	Direct	93.859	R25GM135058	NATIONAL INST OF HEALTH	260,690	29,445
U.S. Dept of Health and Human Services	Direct	93.859	R25GM135058	NATIONAL INST OF HEALTH	26,777	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Health and Human Services	Direct	93.859	R21GM139881	NATIONAL INST OF HEALTH	\$ 138,461	\$ -
U.S. Dept of Health and Human Services	Direct	93.859	R35GM139537	NATIONAL INST OF HEALTH	507,773	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM072667	NATIONAL INST OF HEALTH	525,981	51,905
U.S. Dept of Health and Human Services	Direct	93.859	R35GM131762	NATIONAL INST OF HEALTH	45,144	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM140803	NATIONAL INST OF HEALTH	395,291	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM140931	NATIONAL INST OF HEALTH	359,364	-
U.S. Dept of Health and Human Services	Direct	93.859	5T32GM110523-08	NATIONAL INST OF HEALTH	175,579	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM072667-14S1	NATIONAL INST OF HEALTH	10,240	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM142829	NATIONAL INST OF HEALTH	251,909	-
U.S. Dept of Health and Human Services	Direct	93.859	R01GM139423	NATIONAL INST OF HEALTH	3,573	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM128765	NATIONAL INST OF HEALTH	28,707	-
U.S. Dept of Health and Human Services	Direct	93.859	F32GM141017	NATIONAL INST OF HEALTH	54,372	-
U.S. Dept of Health and Human Services	Direct	93.859	F32GM141017	NATIONAL INST OF HEALTH	12,296	-
U.S. Dept of Health and Human Services	Direct	93.859	1R01GM141354-01	NATIONAL INST OF HEALTH	428,361	-
U.S. Dept of Health and Human Services	Direct	93.859	P41GM135018	NATIONAL INST OF HEALTH	404,407	44,748
U.S. Dept of Health and Human Services	Direct	93.859	P41GM135018	NATIONAL INST OF HEALTH	61,443	19,390
U.S. Dept of Health and Human Services	Direct	93.859	P41GM135018	NATIONAL INST OF HEALTH	21,925	19,639
U.S. Dept of Health and Human Services	Direct	93.859	P41GM135018	NATIONAL INST OF HEALTH	451,006	-
U.S. Dept of Health and Human Services	Direct	93.859	P41GM135018	NATIONAL INST OF HEALTH	185,403	288,387
U.S. Dept of Health and Human Services	Direct	93.859	P41GM135018	NATIONAL INST OF HEALTH	153,009	192,945
U.S. Dept of Health and Human Services	Direct	93.859	R01GM134307	NATIONAL INST OF HEALTH	23,222	-
U.S. Dept of Health and Human Services	Direct	93.859	2R01GM115848-05	NATIONAL INST OF HEALTH	520,162	-
U.S. Dept of Health and Human Services	Direct	93.859	1R35GM144146	NATIONAL INST OF GENERAL MEDICAL SCIENCES	378,720	-
U.S. Dept of Health and Human Services	Direct	93.859	2R01GM130794-05	NATIONAL INST OF HEALTH	312,178	-
U.S. Dept of Health and Human Services	Direct	93.859	5T32GM110523-09	NATIONAL INST OF HEALTH	90,369	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM146721	NATIONAL INST OF HEALTH	281,311	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM146983	NATIONAL INST OF GENERAL MEDICAL SCIENCES	302,681	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM146795	NATIONAL INST OF HEALTH	404,333	-
U.S. Dept of Health and Human Services	Direct	93.859	R35GM139537	NATIONAL INST OF HEALTH	118,190	-
U.S. Dept of Health and Human Services	Direct	93.859	1R01GM148587-01	NATIONAL INST OF HEALTH	111,785	-
U.S. Dept of Health and Human Services	Direct	93.859	P41GM135018	NATIONAL INST OF HEALTH	99,988	-
U.S. Dept of Health and Human Services	Direct	93.859	1R35GM147522-01	NATIONAL INST OF HEALTH	151,615	-
U.S. Dept of Health and Human Services	Direct	93.859	3R25GM132964-04S1	NATIONAL INST OF HEALTH	98,802	-
U.S. Dept of Health and Human Services	Direct	93.859	1R01GM145700-01	NATIONAL INST OF HEALTH	214,190	-
U.S. Dept of Health and Human Services	Direct	93.859	3R35GM146983-01S1	NATIONAL INST OF GENERAL MEDICAL SCIENCES	3,532	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD085990	NATIONAL INST OF HEALTH	(2,454)	(2,267)
U.S. Dept of Health and Human Services	Direct	93.865	R01HD084377	NATIONAL INST OF HEALTH	1	176,262
U.S. Dept of Health and Human Services	Direct	93.865	5T32HD087166-02 Revised	NATIONAL INST OF HEALTH	(239)	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD093334	NATIONAL INST OF HEALTH	266,719	311,275
U.S. Dept of Health and Human Services	Direct	93.865	R00HD084759 (P)	NATIONAL INST OF HEALTH	39,654	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD095371	NATIONAL INST OF HEALTH	252,583	-
U.S. Dept of Health and Human Services	Direct	93.865	R03HD096141	NATIONAL INST OF HEALTH	(157)	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD094842	NATIONAL INST OF HEALTH	559,590	278,982
U.S. Dept of Health and Human Services	Direct	93.865	R01HD098027	NATIONAL INST OF CHLD HEALTH & HUMAN DEVELOPMENT	504,048	420,579
U.S. Dept of Health and Human Services	Direct	93.865	R01HD095951	NATIONAL INST OF HEALTH	368,621	52,195
U.S. Dept of Health and Human Services	Direct	93.865	R21HD097609	NATIONAL INST OF HEALTH	(180)	1,774
U.S. Dept of Health and Human Services	Direct	93.865	R01HD084494	NATIONAL INST OF HEALTH	364,374	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD096259	NATIONAL INST OF HEALTH	472,802	90,539
U.S. Dept of Health and Human Services	Direct	93.865	R01HD072968	NATIONAL INST OF HEALTH	242,830	-
U.S. Dept of Health and Human Services	Direct	93.865	R21HD099383	NATIONAL INST OF CHLD HEALTH & HUMAN DEVELOPMENT	4	-
U.S. Dept of Health and Human Services	Direct	93.865	R21HD100959	NATIONAL INST OF CHLD HEALTH & HUMAN DEVELOPMENT	28,802	-
U.S. Dept of Health and Human Services	Direct	93.865	R21HD098588	NATIONAL INST OF CHLD HEALTH & HUMAN DEVELOPMENT	20,766	95,777
U.S. Dept of Health and Human Services	Direct	93.865	R01HD096033	NATIONAL INST OF HEALTH	1,046,068	223,398
U.S. Dept of Health and Human Services	Direct	93.865	T32HD087166	NATIONAL INST OF HEALTH	2,558	-
U.S. Dept of Health and Human Services	Direct	93.865	R21HD099614	NATIONAL INST OF HEALTH	64,909	79,953
U.S. Dept of Health and Human Services	Direct	93.865	R21HD102907	NATIONAL INST OF HEALTH	46,932	72,412
U.S. Dept of Health and Human Services	Direct	93.865	R03HD100775	NATIONAL INST OF HEALTH	40,598	3,967
U.S. Dept of Health and Human Services	Direct	93.865	R03HD103493	NATIONAL INST OF HEALTH	20,694	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD101243	NATIONAL INST OF CHLD HEALTH & HUMAN DEVELOPMENT	62,722	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD100471	NATIONAL INST OF CHLD HEALTH & HUMAN DEVELOPMENT	889,029	26,440
U.S. Dept of Health and Human Services	Direct	93.865	R01HD100832	NATIONAL INST OF HEALTH	537,792	-
U.S. Dept of Health and Human Services	Direct	93.865	F31HD102094	NATIONAL INST OF HEALTH	21,583	-
U.S. Dept of Health and Human Services	Direct	93.865	F31HD102094	NATIONAL INST OF HEALTH	4,571	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD102527	NATIONAL INST OF CHLD HEALTH & HUMAN DEVELOPMENT	511,011	34,421
U.S. Dept of Health and Human Services	Direct	93.865	R21HD103039	NATIONAL INST OF HEALTH	53,692	108,272
U.S. Dept of Health and Human Services	Direct	93.865	R01HD100469	NATIONAL INST OF HEALTH	724,866	372,840
U.S. Dept of Health and Human Services	Direct	93.865	R01HD099090	NATIONAL INST OF CHLD HEALTH & HUMAN DEVELOPMENT	614,417	-
U.S. Dept of Health and Human Services	Direct	93.865	F32HD104478	NATIONAL INST OF HEALTH	(28)	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD102170	NATIONAL INST OF HEALTH	117,100	56,785
U.S. Dept of Health and Human Services	Direct	93.865	1F31HD105410-01A1	NATIONAL INST OF HEALTH	27,995	-
U.S. Dept of Health and Human Services	Direct	93.865	1F31HD105410-01A1	NATIONAL INST OF HEALTH	4,323	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD103617	NATIONAL INST OF HEALTH	336,207	-
U.S. Dept of Health and Human Services	Direct	93.865	R03HD096141	NATIONAL INST OF HEALTH	8,777	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD085990	NATIONAL INST OF HEALTH	51,742	86,571
U.S. Dept of Health and Human Services	Direct	93.865	R01HD104297	NATIONAL INST OF HEALTH	681,074	57,342
U.S. Dept of Health and Human Services	Direct	93.865	R03HD101654	NATIONAL INST OF HEALTH	78,248	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD094842	NATIONAL INST OF HEALTH	129,832	24,886
U.S. Dept of Health and Human Services	Direct	93.865	R01HD096033	NATIONAL INST OF HEALTH	46,606	116,345
U.S. Dept of Health and Human Services	Direct	93.865	1R01HD102319-01A1	NATIONAL INST OF HEALTH	427,045	19,309
U.S. Dept of Health and Human Services	Direct	93.865	1F31HD107923-01	NATIONAL INST OF HEALTH	29,802	-
U.S. Dept of Health and Human Services	Direct	93.865	1F31HD107923-01	NATIONAL INST OF HEALTH	5,294	-
U.S. Dept of Health and Human Services	Direct	93.865	F32HD098780	NATIONAL INST OF HEALTH	28,835	-
U.S. Dept of Health and Human Services	Direct	93.865	2T32HD087166-06A1	NATIONAL INST OF HEALTH	100,657	-
U.S. Dept of Health and Human Services	Direct	93.865	2T32HD087166-06A1	NATIONAL INST OF HEALTH	2,500	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD104606	NATIONAL INST OF HEALTH	371,698	-
U.S. Dept of Health and Human Services	Direct	93.865	R01HD098027	NATIONAL INST OF HEALTH	363,623	-
U.S. Dept of Health and Human Services	Direct	93.865	1R01HD107019-01A1	NATIONAL INST OF HEALTH	336,126	-
U.S. Dept of Health and Human Services	Direct	93.865	4R39HD103039-03	NATIONAL INST OF HEALTH	92,200	-
U.S. Dept of Health and Human Services	Direct	93.865	1R01HD109152-01	NATIONAL INST OF HEALTH	201,509	-
U.S. Dept of Health and Human Services	Direct	93.865	1F32HD107852-01A1	NATIONAL INST OF HEALTH	62,246	-
U.S. Dept of Health and Human Services	Direct	93.865	3R01HD102319-02S1	NATIONAL INST OF HEALTH	38,194	-
U.S. Dept of Health and Human Services	Direct	93.865	1K99HD110604-01	NATIONAL INST OF HEALTH	49,778	-
U.S. Dept of Health and Human Services	Direct	93.865	F31HD111273	NATIONAL INST OF HEALTH	24,270	-
U.S. Dept of Health and Human Services	Direct	93.865	1F31HD111273-01	NATIONAL INST OF HEALTH	1,859	-
U.S. Dept of Health and Human Services	Direct	93.865	1R01HD108895-01	NATIONAL INST OF HEALTH	290,843	-
U.S. Dept of Health and Human Services	Direct	93.865	1R01HD110500	NATIONAL INST OF HEALTH	149,660	-
U.S. Dept of Health and Human Services	Direct	93.865	1R01HD108722-01A1	NATIONAL INST OF HEALTH	166,172	-
U.S. Dept of Health and Human Services	Direct	93.865	1R21HD109368-01A1	NATIONAL INST OF HEALTH	25,061	-
U.S. Dept of Health and Human Services	Direct	93.866	R01AG051500	NATIONAL INST OF HEALTH	102,275	71,109
U.S. Dept of Health and Human Services	Direct	93.866	R21AG054960	NATIONAL INST ON AGING	95,611	-
U.S. Dept of Health and Human Services	Direct	93.866	R01AG062217	NATIONAL INST OF HEALTH	726,913	-
U.S. Dept of Health and Human Services	Direct	93.866	R01AG062435	NATIONAL INST OF HEALTH	235,361	-
U.S. Dept of Health and Human Services	Direct	93.866	R01AG060731	NATIONAL INST OF HEALTH	423,674	-
U.S. Dept of Health and Human Services	Direct	93.866	R01AG061118	NATIONAL INST OF HEALTH	262,935	13,288
U.S. Dept of Health and Human Services	Direct	93.866	R01AG066223	NATIONAL INST OF HEALTH	160,169	-
U.S. Dept of Health and Human Services	Direct	93.866	R21AG061306	NATIONAL INST OF HEALTH	(33,225)	-
U.S. Dept of Health and Human Services	Direct	93.866	R21AG065712	NATIONAL INST OF HEALTH	19,540	-
U.S. Dept of Health and Human Services	Direct	93.866	R01AG066223	NATIONAL INST OF HEALTH	12,484	-
U.S. Dept of Health and Human Services	Direct	93.866	R01AG067762	NATIONAL INST OF HEALTH	571,284	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Health and Human Services	Direct	93.866	R21AG067400	NATIONAL INST OF HEALTH	\$ 258	\$ 53,255
U.S. Dept of Health and Human Services	Direct	93.866	PO 3006105620	UNIVERSITY OF MICHIGAN	1,105	-
U.S. Dept of Health and Human Services	Direct	93.866	R01AG066223	NATIONAL INST OF HEALTH	12,856	-
U.S. Dept of Health and Human Services	Direct	93.866	RF1AG072449	NATIONAL INST OF HEALTH	371,410	219,557
U.S. Dept of Health and Human Services	Direct	93.866	R21AG074514	NATIONAL INST OF HEALTH	117,486	-
U.S. Dept of Health and Human Services	Direct	93.866	1RF1AG073189-01	NATIONAL INST OF HEALTH	400,993	31,586
U.S. Dept of Health and Human Services	Direct	93.866	3R01AG066223-03S1	NATIONAL INST OF HEALTH	32,180	-
U.S. Dept of Health and Human Services	Direct	93.866	1R21AG075795-01	NATIONAL INST OF HEALTH	206,713	-
U.S. Dept of Health and Human Services	Direct	93.866	1R21AG076994-01	NATIONAL INST OF HEALTH	65,123	-
U.S. Dept of Health and Human Services	Direct	93.866	R01AG066223	NATIONAL INST OF HEALTH	48,915	-
U.S. Dept of Health and Human Services	Direct	93.866	1RF1AG077475-01	NATIONAL INST OF HEALTH	123,495	-
U.S. Dept of Health and Human Services	Direct	93.866	F31AG074521	NATIONAL INST OF HEALTH	25,166	-
U.S. Dept of Health and Human Services	Direct	93.866	1F31AG074621-01A1	NATIONAL INST OF HEALTH	4,400	-
U.S. Dept of Health and Human Services	Direct	93.866	R03AG075465	NATIONAL INST ON AGING	193,085	-
U.S. Dept of Health and Human Services	Direct	93.866	R01AG071517	NATIONAL INST OF HEALTH	263,679	-
U.S. Dept of Health and Human Services	Direct	93.866	3R01AG066223-04S2	NATIONAL INST OF HEALTH	40,735	-
U.S. Dept of Health and Human Services	Direct	93.866	1R56AG075803-01A1	NATIONAL INST OF HEALTH	148,160	-
U.S. Dept of Health and Human Services	Direct	93.866	R21AG075618	NATIONAL INST OF HEALTH	22,690	-
U.S. Dept of Health and Human Services	Direct	93.866	1R01AG080186-01	NATIONAL INST OF HEALTH	59,050	-
U.S. Dept of Health and Human Services	Direct	93.866	1R01AG080186-01	NATIONAL INST OF HEALTH	36,796	-
U.S. Dept of Health and Human Services	Direct	93.866	1R01AG080186-01	NATIONAL INST OF HEALTH	4,169	-
U.S. Dept of Health and Human Services	Direct	93.866	1R21AG082324-01	NATIONAL INST OF HEALTH	31,555	-
U.S. Dept of Health and Human Services	Direct	93.867	R01EY025752	NATIONAL INST OF HEALTH	110,789	96,927
U.S. Dept of Health and Human Services	Direct	93.867	F32EY028426	NATIONAL INST OF HEALTH	(98)	-
U.S. Dept of Health and Human Services	Direct	93.867	R01EY028049	NATIONAL INST OF HEALTH	(14,280)	-
U.S. Dept of Health and Human Services	Direct	93.867	R24EY027285	NATIONAL INST OF HEALTH	1,189,222	403,852
U.S. Dept of Health and Human Services	Direct	93.867	R01EY030766	NATIONAL INST OF HEALTH	423,084	78,143
U.S. Dept of Health and Human Services	Direct	93.867	R21EY032740	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	161,571	-
U.S. Dept of Health and Human Services	Direct	93.867	R01EY016077	NATIONAL INST OF HEALTH	814,335	62,888
U.S. Dept of Health and Human Services	Direct	93.867	5T35OD016477-20	NATIONAL INST OF HEALTH	125,433	-
U.S. Dept of Health and Human Services	Direct	93.867	1R01EY032071-01A1	NATIONAL INST OF HEALTH	131,891	-
U.S. Dept of Health and Human Services	Direct	93.879	COVID-19 - R21LM013638	NATIONAL INST OF HEALTH	192,599	-
U.S. Dept of Health and Human Services	Direct	93.989	R21TW011339	NATIONAL INST OF HEALTH	121,987	-
U.S. Dept of Health and Human Services	Direct	93.989	R21TW011339	NATIONAL INST OF HEALTH	39,453	-
Direct Total					101,412,740	18,168,250
U.S. Dept of Health and Human Services	Pass-through	93.RD	MIC-270466	MAYO CLINIC	(58)	-
U.S. Dept of Health and Human Services	Pass-through	93.RD	E20224543-00-AS	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	94,998	-
U.S. Dept of Health and Human Services	Pass-through	93.RD	E20224543-00-AS	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	46,444	-
U.S. Dept of Health and Human Services	Pass-through	93.RD	E20224543-00-AS	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	36,694	-
U.S. Dept of Health and Human Services	Pass-through	93.RD	269589-MSU	TEMPLE UNIV	216,363	-
U.S. Dept of Health and Human Services	Pass-through	93.073	B11191_MSU	HENRY FORD HEALTH SYSTEM	59,602	-
U.S. Dept of Health and Human Services	Pass-through	93.084	723K866	UNIVERSITY OF WISCONSIN	(1,052)	-
U.S. Dept of Health and Human Services	Pass-through	93.084	0000002359	UNIVERSITY OF WISCONSIN	87,249	-
U.S. Dept of Health and Human Services	Pass-through	93.103	IP 444997	EN SOLUCION INC	45,482	-
U.S. Dept of Health and Human Services	Pass-through	93.110	SUBK00009095	UNIVERSITY OF MICHIGAN	4,888	-
U.S. Dept of Health and Human Services	Pass-through	93.113	3R01B7	UNIVERSITY OF NEW MEXICO	40,497	-
U.S. Dept of Health and Human Services	Pass-through	93.113	1009036_MSU	OREGON HEALTH & SCIENCE UNIVERSITY	(1,369)	-
U.S. Dept of Health and Human Services	Pass-through	93.113	10009736-MSU01	BOWLING GREEN STATE UNIVERSITY	34,313	-
U.S. Dept of Health and Human Services	Pass-through	93.113	7151-MS-Y01	SLENT SPRING INST	18,357	-
U.S. Dept of Health and Human Services	Pass-through	93.113	19-579-MSU	WEST VIRGINIA UNIV	14,726	-
U.S. Dept of Health and Human Services	Pass-through	93.113	AWD101249 (SUB00000306)	UNIVERSITY OF CHICAGO	12,014	-
U.S. Dept of Health and Human Services	Pass-through	93.113	5112782	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	13,600	-
U.S. Dept of Health and Human Services	Pass-through	93.113	138028 SPC003429	WASHINGTON STATE UNIV	67,148	-
U.S. Dept of Health and Human Services	Pass-through	93.113	SUB000002624	RUTGERS UNIVERSITY	119,618	-
U.S. Dept of Health and Human Services	Pass-through	93.121	2R44-04-01	NANOMAG LLC	12,153	-
U.S. Dept of Health and Human Services	Pass-through	93.121	3200004176-22-041	UNIVERSITY OF KENTUCKY	21,943	-
U.S. Dept of Health and Human Services	Pass-through	93.121	UWSC13623	UNIVERSITY OF WASHINGTON	232,456	-
U.S. Dept of Health and Human Services	Pass-through	93.121	SUBK00016708	UNIVERSITY OF MICHIGAN	17,334	-
U.S. Dept of Health and Human Services	Pass-through	93.121	CY22-196-MSUJ	SANFORD RESEARCH	1,799	-
U.S. Dept of Health and Human Services	Pass-through	93.135	SUBK00006977	UNIVERSITY OF MICHIGAN	96,772	-
U.S. Dept of Health and Human Services	Pass-through	93.135	COVID-19 - SUBK00016258	UNIVERSITY OF MICHIGAN	50,922	-
U.S. Dept of Health and Human Services	Pass-through	93.136	WSU20029	WAYNE STATE UNIV	(5,741)	-
U.S. Dept of Health and Human Services	Pass-through	93.136	SP00014514-01	GEORGIA STATE UNIV	22,317	-
U.S. Dept of Health and Human Services	Pass-through	93.136	WSU21001	WAYNE STATE UNIV	24,314	-
U.S. Dept of Health and Human Services	Pass-through	93.136	IP 00540051	JOHNS HOPKINS UNIV	7,420	-
U.S. Dept of Health and Human Services	Pass-through	93.136	SUBK00016076	UNIVERSITY OF MICHIGAN	63,684	-
U.S. Dept of Health and Human Services	Pass-through	93.136	2023GC0092	UNIVERSITY OF TEXAS AT ARLINGTON	13,802	-
U.S. Dept of Health and Human Services	Pass-through	93.143	SUBK00013826	UNIVERSITY OF MICHIGAN	15,271	-
U.S. Dept of Health and Human Services	Pass-through	93.143	WSU23008	WAYNE STATE UNIV	18,453	-
U.S. Dept of Health and Human Services	Pass-through	93.173	BL-4633518-MSU	INDIANA UNIV	58,347	-
U.S. Dept of Health and Human Services	Pass-through	93.173	16-0527	BRIGHTMAN YOUNG UNIV	42,165	-
U.S. Dept of Health and Human Services	Pass-through	93.173	65543	UNIVERSITY OF DELAWARE	89,055	-
U.S. Dept of Health and Human Services	Pass-through	93.173	SUBK00015768	UNIVERSITY OF MICHIGAN	86,700	-
U.S. Dept of Health and Human Services	Pass-through	93.213	00001330	BROWN UNIV	5,222	-
U.S. Dept of Health and Human Services	Pass-through	93.241	MCRH - UMUCU	MICHIGAN CENTER FOR RURAL HEALTH	103,702	-
U.S. Dept of Health and Human Services	Pass-through	93.242	E2049281	GEORGE MASON UNIV	123,271	-
U.S. Dept of Health and Human Services	Pass-through	93.242	A20-05857-S001	UNIVERSITY OF CALIFORNIA DAVIS	34,975	-
U.S. Dept of Health and Human Services	Pass-through	93.242	S002139-DHHS	PENNSYLVANIA STATE UNIV	31,020	-
U.S. Dept of Health and Human Services	Pass-through	93.242	SUBK00012602	UNIVERSITY OF MICHIGAN	(155,780)	-
U.S. Dept of Health and Human Services	Pass-through	93.242	417889GURFAO.GR530333	UNIVERSITY OF ROCHESTER	2,601	-
U.S. Dept of Health and Human Services	Pass-through	93.242	5076-MSU	SIMMERSON	17,715	-
U.S. Dept of Health and Human Services	Pass-through	93.242	10-124646-8097-46	PHYSICAL SCIENCES INC	46,187	-
U.S. Dept of Health and Human Services	Pass-through	93.242	18566	UNIVERSITY OF ILLINOIS CHICAGO	26,606	-
U.S. Dept of Health and Human Services	Pass-through	93.242	5113312	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	140,708	-
U.S. Dept of Health and Human Services	Pass-through	93.242	A639303	EMORY UNIV	8,946	-
U.S. Dept of Health and Human Services	Pass-through	93.242	2IG015132-01)	COLUMBIA UNIV	648,977	-
U.S. Dept of Health and Human Services	Pass-through	93.242	B11239MSU	HENRY FORD HEALTH SYSTEM	6,984	-
U.S. Dept of Health and Human Services	Pass-through	93.242	SUB000002010	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	34,709	-
U.S. Dept of Health and Human Services	Pass-through	93.242	417889GURFAO.GR530333	UNIVERSITY OF ROCHESTER	12,539	-
U.S. Dept of Health and Human Services	Pass-through	93.242	D9198-02 SA950 A0 5A945A 7802	SAN DIEGO STATE UNIV FOUNDATION	2,591	-
U.S. Dept of Health and Human Services	Pass-through	93.242	SUBK00019228	UNIVERSITY OF MICHIGAN	24,084	-
U.S. Dept of Health and Human Services	Pass-through	93.243	1H79T080350	FLINT ODYSSEY HOUSE HEALTH AWARENESS CENTER	24,628	-
U.S. Dept of Health and Human Services	Pass-through	93.243	SUBK00016671	UNIVERSITY OF MICHIGAN	8,691	-
U.S. Dept of Health and Human Services	Pass-through	93.243	E20234339-00-AN	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	16,677	-
U.S. Dept of Health and Human Services	Pass-through	93.268	E2022496-001 AB	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	57,612	-
U.S. Dept of Health and Human Services	Pass-through	93.788	E20233379-00-AC	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	178,725	-
U.S. Dept of Health and Human Services	Pass-through	93.273	SUBK00014130	UNIVERSITY OF MICHIGAN	33,278	-
U.S. Dept of Health and Human Services	Pass-through	93.273	IP 565235	PARTNERSHIP TO END ADDICTION	(16)	-
U.S. Dept of Health and Human Services	Pass-through	93.273	7137767	RHODE ISLAND HOSPITAL	6,707	-
U.S. Dept of Health and Human Services	Pass-through	93.279	E2056614	GEORGE MASON UNIV	178,838	-
U.S. Dept of Health and Human Services	Pass-through	93.279	21-85452-06	UNIVERSITY OF TEXAS MEDICAL BRANCH	115,042	-
U.S. Dept of Health and Human Services	Pass-through	93.279	21-271-2-S1.1	EAST TENNESSEE STATE UNIVERSITY	3,374	-
U.S. Dept of Health and Human Services	Pass-through	93.279	12751SUB	SEATTLE CHILDRENS HOSPITAL	11,106	-
U.S. Dept of Health and Human Services	Pass-through	93.279	2005740964	JOHNS HOPKINS UNIV	22,539	-
U.S. Dept of Health and Human Services	Pass-through	93.286	2003719763	JOHNS HOPKINS UNIV	(665)	-
U.S. Dept of Health and Human Services	Pass-through	93.286	238553	MASSACHUSETTS GENERAL HOSPITAL	382,475	-
U.S. Dept of Health and Human Services	Pass-through	93.286	F64758	CENTRAL MICHIGAN UNIV	288,815	-
U.S. Dept of Health and Human Services	Pass-through	93.307	26036A01-04	UNIVERSITY OF CENTRAL FLORIDA	117,461	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Health and Human Services	Pass-through	93.307	26036A05	UNIVERSITY OF CENTRAL FLORIDA	\$ 39,909	\$ -
U.S. Dept of Health and Human Services	Pass-through	93.307	SUBK00013082	UNIVERSITY OF MICHIGAN	25,462	-
U.S. Dept of Health and Human Services	Pass-through	93.307	A22-0050-5001	OAKLAND UNIV	51,060	-
U.S. Dept of Health and Human Services	Pass-through	93.307	SUBK00015561	UNIVERSITY OF MICHIGAN	50,429	-
U.S. Dept of Health and Human Services	Pass-through	93.310	SUB00001823	UNIVERSITY OF GEORGIA	(81,798)	-
U.S. Dept of Health and Human Services	Pass-through	93.310	093670-18116	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	23,508	-
U.S. Dept of Health and Human Services	Pass-through	93.310	SUB00001823-4A	UNIVERSITY OF GEORGIA	124,359	-
U.S. Dept of Health and Human Services	Pass-through	93.310	5121986	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	34,615	-
U.S. Dept of Health and Human Services	Pass-through	93.310	A03-5278	DUKE UNIV	32,163	-
U.S. Dept of Health and Human Services	Pass-through	93.310	SUB00001823-4S	UNIVERSITY OF GEORGIA	134,292	-
U.S. Dept of Health and Human Services	Pass-through	93.310	30T2OD026550-01S3	HENRY FORD HEALTH SYSTEM	80,389	-
U.S. Dept of Health and Human Services	Pass-through	93.310	SUB00001823	UNIVERSITY OF GEORGIA	25,229	-
U.S. Dept of Health and Human Services	Pass-through	93.310	5125788	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	115,173	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20215203-00 AS	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	(50)	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20224022-00 AJ	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	489,776	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20224019-00 AI	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	395,057	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20222072-00 D	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	40,858	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20224223-00 AL	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	23,929	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20224543-00-AS	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	65,775	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20232737-00-AJ	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	959,546	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20232538-00-I	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	37,830	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20234147-00-AI	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	987,128	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20234269-00-AG	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	301,369	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20234269-00-AG	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	104,968	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20234269-00-AG	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	57,229	-
U.S. Dept of Health and Human Services	Pass-through	93.323	E20234269-00-AG	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	219,310	-
U.S. Dept of Health and Human Services	Pass-through	93.350	2000 G LE728	UNIVERSITY OF CALIFORNIA LOS ANGELES	14,960	-
U.S. Dept of Health and Human Services	Pass-through	93.351	215720B	UNIVERSITY OF CALIFORNIA	(28)	-
U.S. Dept of Health and Human Services	Pass-through	93.351	E2024028	IOWA STATE UNIV	18,355	-
U.S. Dept of Health and Human Services	Pass-through	93.351	P51 ODD11092	OREGON HEALTH & SCIENCE UNIVERSITY	3,912	-
U.S. Dept of Health and Human Services	Pass-through	93.353	SUBK00010769	UNIVERSITY OF MICHIGAN	33,785	-
U.S. Dept of Health and Human Services	Pass-through	93.361	0001018678	FRED HUTCHINSON CANCER RESEARCH CENTER	(5,460)	-
U.S. Dept of Health and Human Services	Pass-through	93.361	SUBK00013486	UNIVERSITY OF MICHIGAN	123,489	-
U.S. Dept of Health and Human Services	Pass-through	93.361	0001109936	FRED HUTCHINSON CANCER RESEARCH CENTER	17,271	-
U.S. Dept of Health and Human Services	Pass-through	93.393	481270	UNIVERSITY OF ARIZONA	16,689	-
U.S. Dept of Health and Human Services	Pass-through	93.393	5115142	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	104,131	-
U.S. Dept of Health and Human Services	Pass-through	93.393	580371	UNIVERSITY OF PENNSYLVANIA	24,184	-
U.S. Dept of Health and Human Services	Pass-through	93.393	19269	UNIVERSITY OF ILLINOIS CHICAGO	39,479	-
U.S. Dept of Health and Human Services	Pass-through	93.393	665685	UNIVERSITY OF ARIZONA	37,732	-
U.S. Dept of Health and Human Services	Pass-through	93.393	SUBK00018427	UNIVERSITY OF MICHIGAN	5,186	-
U.S. Dept of Health and Human Services	Pass-through	93.394	750002	PROTEOGENOMICS RESEARCH INST FOR SYSTEMS	240,348	-
U.S. Dept of Health and Human Services	Pass-through	93.395	450683	UNIVERSITY OF ARIZONA	8,846	-
U.S. Dept of Health and Human Services	Pass-through	93.395	IP 463964	IASO THERAPEUTICS INC	62,052	-
U.S. Dept of Health and Human Services	Pass-through	93.395	U10CA180886	PUBLIC HEALTH INSTTUTE	4,347	-
U.S. Dept of Health and Human Services	Pass-through	93.396	C00080162-1	UNIVERSITY OF MISSOURI	45,899	-
U.S. Dept of Health and Human Services	Pass-through	93.434	213971-GSRPEV5	MICHIGAN DEPT OF EDUCATION	(1,080)	-
U.S. Dept of Health and Human Services	Pass-through	93.434	223971-GSRPEV5	MICHIGAN DEPT OF EDUCATION	34,202	-
U.S. Dept of Health and Human Services	Pass-through	93.434	223971-GSRPEV6	MICHIGAN DEPT OF EDUCATION	59,562	-
U.S. Dept of Health and Human Services	Pass-through	93.434	223973-SBEG1	MICHIGAN DEPT OF EDUCATION	63,319	-
U.S. Dept of Health and Human Services	Pass-through	93.664	E20224220-00 AK	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	19,122	-
U.S. Dept of Health and Human Services	Pass-through	93.732	RG2665-3211	EASTERN MICHIGAN UNIV	25,000	-
U.S. Dept of Health and Human Services	Pass-through	93.788	E20222498-00 AB	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	197,765	-
U.S. Dept of Health and Human Services	Pass-through	93.788	E20222498-00 AB	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	7,175	-
U.S. Dept of Health and Human Services	Pass-through	93.788	E20222498-00 AB	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	15,150	-
U.S. Dept of Health and Human Services	Pass-through	93.788	E20233379-002-AC	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	39,564	-
U.S. Dept of Health and Human Services	Pass-through	93.837	N008545201	UNIVERSITY OF MINNESOTA	22,836	-
U.S. Dept of Health and Human Services	Pass-through	93.837	3004463783	UNIVERSITY OF MICHIGAN	108,171	-
U.S. Dept of Health and Human Services	Pass-through	93.837	3200003472-21-016	UNIVERSITY OF KENTUCKY	(2,629)	-
U.S. Dept of Health and Human Services	Pass-through	93.837	3200004236-22-020	UNIVERSITY OF KENTUCKY	29,547	-
U.S. Dept of Health and Human Services	Pass-through	93.837	3200004236-22-020	UNIVERSITY OF KENTUCKY	4,649	-
U.S. Dept of Health and Human Services	Pass-through	93.837	VYAS-2021-02	CALIFORNIA NORTHSTATE UNIVERSITY	24,167	-
U.S. Dept of Health and Human Services	Pass-through	93.837	3200004734-22-212	UNIVERSITY OF KENTUCKY	79,962	-
U.S. Dept of Health and Human Services	Pass-through	93.837	CALM2-2022-001	CALIFORNIA MEDICAL INNOVATIONS INST	134,816	-
U.S. Dept of Health and Human Services	Pass-through	93.838	540544	UNIVERSITY OF MEMPHIS	15,122	-
U.S. Dept of Health and Human Services	Pass-through	93.838	125713	BRIGHAM & WOMENS HOSPITAL	111,972	-
U.S. Dept of Health and Human Services	Pass-through	93.838	H4R5D3HP??	MASSACHUSETTS GENERAL HOSPITAL	1,928	-
U.S. Dept of Health and Human Services	Pass-through	93.839	CNA00054669 (131801-21)	UNIVERSITY OF PITTSBURGH	456	-
U.S. Dept of Health and Human Services	Pass-through	93.846	5020270_SERV	TUFTS MEDICAL CENTER	25,300	-
U.S. Dept of Health and Human Services	Pass-through	93.846	000514824-SP004-SC003	UNIVERSITY OF ALABAMA AT BIRMINGHAM	1,797	-
U.S. Dept of Health and Human Services	Pass-through	93.846	000526695-SC002	UNIVERSITY OF ALABAMA AT BIRMINGHAM	24,702	-
U.S. Dept of Health and Human Services	Pass-through	93.846	00562887	ADVERTENT BIOTHERAPEUTICS	9,444	-
U.S. Dept of Health and Human Services	Pass-through	93.847	AWD100466 (SUB0000162)	UNIVERSITY OF CHICAGO	189,803	-
U.S. Dept of Health and Human Services	Pass-through	93.847	UTA19-001577	UNIVERSITY OF TEXAS AT AUSTIN	28,920	-
U.S. Dept of Health and Human Services	Pass-through	93.847	5116414	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	46,179	-
U.S. Dept of Health and Human Services	Pass-through	93.847	103323MSU	DIGNITY HEALTH - ST. JOSEPHS HOSPITAL AND MEDICAL CENTER	(50)	-
U.S. Dept of Health and Human Services	Pass-through	93.847	SUBK00014728	UNIVERSITY OF MICHIGAN	(871)	-
U.S. Dept of Health and Human Services	Pass-through	93.847	SPC-100004854 / GR122875	OHIO STATE UNIV	7,633	-
U.S. Dept of Health and Human Services	Pass-through	93.847	WBH202109_MSU	BEALMONT HOSPITAL	87,848	-
U.S. Dept of Health and Human Services	Pass-through	93.847	SUBK00016408	UNIVERSITY OF MICHIGAN	10,829	-
U.S. Dept of Health and Human Services	Pass-through	93.853	417168	UNIVERSITY OF ROCHESTER	14,665	-
U.S. Dept of Health and Human Services	Pass-through	93.853	7000000711	BAYLOR COLLEGE OF MEDICINE	35,175	-
U.S. Dept of Health and Human Services	Pass-through	93.853	1(GG015025-01)	COLUMBIA UNIV	67,789	-
U.S. Dept of Health and Human Services	Pass-through	93.853	17546-00	UNIVERSITY OF ILLINOIS CHICAGO	468,076	-
U.S. Dept of Health and Human Services	Pass-through	93.853	235227	MASSACHUSETTS GENERAL HOSPITAL	140,908	-
U.S. Dept of Health and Human Services	Pass-through	93.853	SUB00000020/UR FAO.GR530629	UNIVERSITY OF ROCHESTER	50,997	-
U.S. Dept of Health and Human Services	Pass-through	93.853	SUBK00015115	UNIVERSITY OF MICHIGAN	89,654	-
U.S. Dept of Health and Human Services	Pass-through	93.853	370117-02	MOREHOUSE SCHOOL OF MEDICINE	30,832	-
U.S. Dept of Health and Human Services	Pass-through	93.853	642722	UNIVERSITY OF ARIZONA	46,916	-
U.S. Dept of Health and Human Services	Pass-through	93.855	VUMC93296	VANDERBILT UNIV	(2,928)	-
U.S. Dept of Health and Human Services	Pass-through	93.855	GR106287 (CON-80001799)	YALE UNIV	234,393	-
U.S. Dept of Health and Human Services	Pass-through	93.855	SUB00000134	UNIVERSITY OF MICHIGAN	8,449	-
U.S. Dept of Health and Human Services	Pass-through	93.855	B23829MSU	HENRY FORD HEALTH SYSTEM	77,968	-
U.S. Dept of Health and Human Services	Pass-through	93.855	1275 PO 1317755	RUTGERS UNIVERSITY	2,568	-
U.S. Dept of Health and Human Services	Pass-through	93.855	121775UB	SEATTLE CHILDRENS RESEARCH INST	53,025	-
U.S. Dept of Health and Human Services	Pass-through	93.855	8577	INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS	52,612	-
U.S. Dept of Health and Human Services	Pass-through	93.855	12403SUB	SEATTLE CHILDRENS RESEARCH INST	175,149	-
U.S. Dept of Health and Human Services	Pass-through	93.855	2(GG011631-25) POSAPO G1593.1	COLUMBIA UNIV	1,873	-
U.S. Dept of Health and Human Services	Pass-through	93.855	SA28579	WELLESLEY COLLEGE	27,784	-
U.S. Dept of Health and Human Services	Pass-through	93.855	IP 524164	IASO THERAPEUTICS INC	23,735	-
U.S. Dept of Health and Human Services	Pass-through	93.855	1SB1AI62452-01-MSU	VISIONQUEST BIOMEDICAL LLC	10,724	-
U.S. Dept of Health and Human Services	Pass-through	93.855	9342-MSU	INDIANA UNIV	12,660	-
U.S. Dept of Health and Human Services	Pass-through	93.855	2(GG017950-02)	COLUMBIA UNIV	11,247	-
U.S. Dept of Health and Human Services	Pass-through	93.855	450004369	BOSTON UNIV	8,449	-
U.S. Dept of Health and Human Services	Pass-through	93.855	312174 P0897866 P0928180	ALBERT EINSTEIN COLLEGE OF MEDICINE INC	14,285	-
U.S. Dept of Health and Human Services	Pass-through	93.855	SUB00002634	RUTGERS UNIVERSITY	7,481	-
U.S. Dept of Health and Human Services	Pass-through	93.855	5127101	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	107,191	-
U.S. Dept of Health and Human Services	Pass-through	93.859	4500002876	BOSTON UNIV	14,899	-
U.S. Dept of Health and Human Services	Pass-through	93.859	S-001206	UNIVERSITY OF CALIFORNIA RIVERSIDE	6,240	-
U.S. Dept of Health and Human Services	Pass-through	93.859	1R44GN134738-01	GLYCAN THERAPEUTICS	(839)	-

Schedule of Expenditures of Federal Awards

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Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Dept of Health and Human Services	Pass-through	93.859	11001041-072	PURDUE UNIV	\$ 1,627	\$ -
U.S. Dept of Health and Human Services	Pass-through	93.859	TUL-HSC-559670-21/22	TULANE UNIV	52,698	-
U.S. Dept of Health and Human Services	Pass-through	93.859	RS20210516-01	UNIVERSITY OF OKLAHOMA	34,374	-
U.S. Dept of Health and Human Services	Pass-through	93.859	WSU22165	WAYNE STATE UNIV	2,653	-
U.S. Dept of Health and Human Services	Pass-through	93.859	0009865/12132022	UNIVERSITY OF RHODE ISLAND	43,905	-
U.S. Dept of Health and Human Services	Pass-through	93.865	5112242	UNIVERSITY OF NORTH CAROLINA	18,050	-
U.S. Dept of Health and Human Services	Pass-through	93.865	18-A1-00-1001408	NEW YORK UNIV SCHOOL OF MEDICINE	340,180	-
U.S. Dept of Health and Human Services	Pass-through	93.865	577024	UNIVERSITY OF ARIZONA	9,858	-
U.S. Dept of Health and Human Services	Pass-through	93.865	F0998-36	NEW YORK UNIV	155	-
U.S. Dept of Health and Human Services	Pass-through	93.865	R000002924	FLORIDA STATE UNIV	28,642	-
U.S. Dept of Health and Human Services	Pass-through	93.865	COVID-19 - 20-A0-S1-1001408	NEW YORK UNIV SCHOOL OF MEDICINE	118,483	-
U.S. Dept of Health and Human Services	Pass-through	93.865	5122929	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	55,883	-
U.S. Dept of Health and Human Services	Pass-through	93.865	22305532	UNIVERSITY OF WISCONSIN MILWAUKEE	40,254	-
U.S. Dept of Health and Human Services	Pass-through	93.865	C00080221-1	UNIVERSITY OF MISSOURI	12,125	-
U.S. Dept of Health and Human Services	Pass-through	93.865	C00080194-1	UNIVERSITY OF MISSOURI	45,225	-
U.S. Dept of Health and Human Services	Pass-through	93.865	22-A0-00-100-7705 - O'Connell	NEW YORK UNIV	16,960	-
U.S. Dept of Health and Human Services	Pass-through	93.865	UCHC7-165210555	UNIVERSITY OF CONNECTICUT	2,196	-
U.S. Dept of Health and Human Services	Pass-through	93.865	GENFD0002285029	BOSTON CHILDRENS HOSPITAL	18,868	-
U.S. Dept of Health and Human Services	Pass-through	93.865	127746	BRIGHAM & WOMENS HOSPITAL	114,828	-
U.S. Dept of Health and Human Services	Pass-through	93.865	5122929	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	11,790	-
U.S. Dept of Health and Human Services	Pass-through	93.866	160236	UNIVERSITY OF TEXAS SOUTH-WESTERN MEDICAL CENTER	115,554	-
U.S. Dept of Health and Human Services	Pass-through	93.866	H-1R44AG058330-01	HESPEROS INC	2,330	-
U.S. Dept of Health and Human Services	Pass-through	93.866	GMO 181212	UNIVERSITY OF TEXAS SOUTH-WESTERN MEDICAL CENTER	59,913	-
U.S. Dept of Health and Human Services	Pass-through	93.866	UTA18-000523	UNIVERSITY OF TEXAS AT AUSTIN	20,180	-
U.S. Dept of Health and Human Services	Pass-through	93.866	CV13UJ07014-02	GRAND VALLEY STATE UNIV	33,070	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00007977	UNIVERSITY OF MICHIGAN	151,098	-
U.S. Dept of Health and Human Services	Pass-through	93.866	170603621	MICHIGAN TECHNOLOGICAL UNIVERSITY	200	-
U.S. Dept of Health and Human Services	Pass-through	93.866	32114-MSU	DIGNITY HEALTH - ST. JOSEPHS HOSPITAL AND MEDICAL CENTER	409,384	224,229
U.S. Dept of Health and Human Services	Pass-through	93.866	GMQ200807	UNIVERSITY OF TEXAS SOUTH-WESTERN MEDICAL CENTER	31,893	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00010687	UNIVERSITY OF MICHIGAN	24,699	-
U.S. Dept of Health and Human Services	Pass-through	93.866	000526683-SC002	UNIVERSITY OF ALABAMA AT BIRMINGHAM	167,830	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00014013	UNIVERSITY OF MICHIGAN	2,265	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00014129	UNIVERSITY OF MICHIGAN	207	-
U.S. Dept of Health and Human Services	Pass-through	93.866	AG057274-MSU	CAYMAN CHEMICAL CO INC	195,474	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00007878	UNIVERSITY OF MICHIGAN	1,320	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00007878	UNIVERSITY OF MICHIGAN	715	-
U.S. Dept of Health and Human Services	Pass-through	93.866	WSU121008	WAYNE STATE UNIV	48,779	-
U.S. Dept of Health and Human Services	Pass-through	93.866	RF00108-2021-0316	UNIVERSITY OF NORTH TEXAS	206,880	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00007977	UNIVERSITY OF MICHIGAN	5,386	-
U.S. Dept of Health and Human Services	Pass-through	93.866	320000422-22-121	UNIVERSITY OF KENTUCKY	16,704	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00013940	UNIVERSITY OF MICHIGAN	(6,450)	-
U.S. Dept of Health and Human Services	Pass-through	93.866	P009020701	UNIVERSITY OF MINNESOTA	245,532	-
U.S. Dept of Health and Human Services	Pass-through	93.866	000528982-SC002	UNIVERSITY OF ALABAMA AT BIRMINGHAM	49,331	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00017182	UNIVERSITY OF MICHIGAN	2,160	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00017182	UNIVERSITY OF MICHIGAN	10,925	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00017543	UNIVERSITY OF MICHIGAN	25,400	-
U.S. Dept of Health and Human Services	Pass-through	93.866	PO 3007181611 SUBK00007878	UNIVERSITY OF MICHIGAN	63,200	-
U.S. Dept of Health and Human Services	Pass-through	93.866	PO 3007181610 SUBK00007878	UNIVERSITY OF MICHIGAN	16,030	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00019007	UNIVERSITY OF MICHIGAN	20,399	-
U.S. Dept of Health and Human Services	Pass-through	93.866	CR1106352	UNIVERSITY OF CENTRAL FLORIDA	175,650	-
U.S. Dept of Health and Human Services	Pass-through	93.866	G2920033-236617	STANFORD UNIV	69,770	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00013940	UNIVERSITY OF MICHIGAN	409,699	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00013940	UNIVERSITY OF MICHIGAN	11,105	-
U.S. Dept of Health and Human Services	Pass-through	93.866	GMQ231019 P0000002811	UNIVERSITY OF TEXAS SOUTH-WESTERN MEDICAL CENTER	72,452	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00017813	UNIVERSITY OF MICHIGAN	7,293	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUB00002929	UNIVERSITY OF GEORGIA	38,416	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00018593	MICHIGAN ALZHEIMERS DISEASE RESEARCH CENTER	8,909	-
U.S. Dept of Health and Human Services	Pass-through	93.866	SUBK00018592	MICHIGAN ALZHEIMERS DISEASE RESEARCH CENTER	9,524	-
U.S. Dept of Health and Human Services	Pass-through	93.867	000526866-SC002	UNIVERSITY OF ALABAMA AT BIRMINGHAM	248,411	-
U.S. Dept of Health and Human Services	Pass-through	93.867	1019606_MSU	OREGON HEALTH & SCIENCE UNIVERSITY	62,657	-
U.S. Dept of Health and Human Services	Pass-through	93.867	I#00533804	MEDICAL COLLEGE OF WISCONSIN	240,674	-
U.S. Dept of Health and Human Services	Pass-through	93.872	F121 494.004	UNIVERSITY OF COLORADO	8,165	-
U.S. Dept of Health and Human Services	Pass-through	93.872	F121 494.004	UNIVERSITY OF COLORADO	20,514	-
U.S. Dept of Health and Human Services	Pass-through	93.879	1090886-449381	CARNEGIE MELLON UNIV	59,738	-
U.S. Dept of Health and Human Services	Pass-through	93.958	E20222735-00-Q	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	200,292	-
U.S. Dept of Health and Human Services	Pass-through	93.958	E20233773-00-Q	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	449,206	-
U.S. Dept of Health and Human Services	Pass-through	93.989	154621	COLUMBIA UNIV	22,528	-
Pass-through Total					17,835,000	224,229
U.S. Dept of Health and Human Services Total					119,247,740	18,392,479
U.S. Dept of Homeland Security	Direct	97.104	H98230-23-1-0005	NATIONAL SECURITY AGENCY	1,565	-
U.S. Dept of Homeland Security	Direct	97.104	H68230-23-1-0005	NATIONAL SECURITY AGENCY	38,767	-
U.S. Dept of Homeland Security	Direct	97.132	EMW-2022-GR-0046-S01	U.S. DEPT OF HOMELAND SECURITY	201,129	-
Direct Total					241,461	-
U.S. Dept of Homeland Security	Pass-through	97.061	E2051858	GEORGE MASON UNIV	35,119	342
U.S. Dept of Homeland Security	Pass-through	97.061	44-0108-1001-416	UNIVERSITY OF NEBRASKA OMAHA	58,657	41,136
U.S. Dept of Homeland Security	Pass-through	97.061	E205577C	GEORGE MASON UNIV	265,147	-
Pass-through Total					358,923	41,478
U.S. Dept of Homeland Security Total					600,384	41,478
U.S. Agency for International Development	Direct	98.001	7200AA18LE00003	U.S. AGENCY FOR INTL DEVELOPMENT	3,499,281	1,625,368
U.S. Agency for International Development	Direct	98.001	7200AA19LE00001	U.S. AGENCY FOR INTL DEVELOPMENT	2,479,825	1,180,078
U.S. Agency for International Development	Direct	98.001	72062119LA00001	U.S. AGENCY FOR INTL DEVELOPMENT	1,462,345	713,716
U.S. Agency for International Development	Direct	98.001	7200AA18LE00003	U.S. AGENCY FOR INTL DEVELOPMENT	330,701	-
U.S. Agency for International Development	Direct	98.001	7200AA18LE00003	U.S. AGENCY FOR INTL DEVELOPMENT	3,922	-
U.S. Agency for International Development	Direct	98.001	7200AA18LE00003	U.S. AGENCY FOR INTL DEVELOPMENT	352,286	11,384
U.S. Agency for International Development	Direct	98.001	7200AA18LE00003	U.S. AGENCY FOR INTL DEVELOPMENT	46,927	-
U.S. Agency for International Development	Direct	98.001	7200AA19LE00001	U.S. AGENCY FOR INTL DEVELOPMENT	328	-
U.S. Agency for International Development	Direct	98.001	7200AA21CA00018	U.S. AGENCY FOR INTL DEVELOPMENT	2,318,035	814,351
U.S. Agency for International Development	Direct	98.001	7200AA19LE00001	U.S. AGENCY FOR INTL DEVELOPMENT	78,280	160,000
U.S. Agency for International Development	Direct	98.001	7200AA19LE00001	U.S. AGENCY FOR INTL DEVELOPMENT	564,091	-
U.S. Agency for International Development	Direct	98.001	7200AA19LE00001	U.S. AGENCY FOR INTL DEVELOPMENT	170,628	50,000
U.S. Agency for International Development	Direct	98.001	7200AA19LE00001	U.S. AGENCY FOR INTL DEVELOPMENT	39,544	-
U.S. Agency for International Development	Direct	98.001	7200AA19LE00001	U.S. AGENCY FOR INTL DEVELOPMENT	89,807	-
U.S. Agency for International Development	Direct	98.001	72061223CA00001	U.S. AGENCY FOR INTL DEVELOPMENT	806,273	-
U.S. Agency for International Development	Direct	98.001	7200AA19LE00001	U.S. AGENCY FOR INTL DEVELOPMENT	205,230	-
U.S. Agency for International Development	Direct	98.001	7200AA18LE00003	U.S. AGENCY FOR INTL DEVELOPMENT	136,982	-
U.S. Agency for International Development	Direct	98.001	7200AA18LE00003	U.S. AGENCY FOR INTL DEVELOPMENT	125,445	-
Direct Total					13,249,930	4,654,897
U.S. Agency for International Development	Pass-through	98.001	AD-BFS-G11-00002	INTL INST FOR TROPICAL AGRICULTURE	323,250	53,457
U.S. Agency for International Development	Pass-through	98.001	04680011	INTL FERTILIZER DEVELOPMENT CENTER	1,808	37,000
U.S. Agency for International Development	Pass-through	98.001	193900.312455.12B	MISSISSIPPI STATE UNIV	21,753	-
U.S. Agency for International Development	Pass-through	98.001	193900.312455.12A	MISSISSIPPI STATE UNIV	35,336	-
U.S. Agency for International Development	Pass-through	98.001	A20-0163-5016	KANSAS STATE UNIV	199,807	-
U.S. Agency for International Development	Pass-through	98.001	8915-11361	CORNELL UNIV	5,432	2,151
U.S. Agency for International Development	Pass-through	98.001	100538-18020	UNIVERSITY OF ILLINOIS	217,489	98,330
U.S. Agency for International Development	Pass-through	98.001	A20-0163-5019	KANSAS STATE UNIV	46,741	20,580
U.S. Agency for International Development	Pass-through	98.001	2021X112.MSU	INTL FOOD POLICY RESEARCH INST	325,162	-
U.S. Agency for International Development	Pass-through	98.001	193900.312455.12C	MISSISSIPPI STATE UNIV	597	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
RESEARCH AND DEVELOPMENT CLUSTER (CONTINUED)						
U.S. Agency for International Development	Pass-through	98.001	S002270-USAID	PENNSYLVANIA STATE UNIV	\$ 76,938	\$ -
U.S. Agency for International Development	Pass-through	98.001	2021X284.MSU	INTL FOOD POLICY RESEARCH INST	729,415	-
U.S. Agency for International Development	Pass-through	98.001	EP0216467 104042	TUFTS UNIV	25,771	-
U.S. Agency for International Development	Pass-through	98.001	SUB00003187	UNIVERSITY OF FLORIDA	15,921	-
Pass-through Total					2,024,520	211,518
U.S. Agency for International Development Total					15,274,450	4,766,415
TOTAL RESEARCH AND DEVELOPMENT CLUSTER					427,115,713	39,899,748
STUDENT FINANCIAL ASSISTANCE PROGRAMS CLUSTER						
U.S. Dept of Education	Direct	84.007	P007A212045 SEOG 21-22	U.S. DEPT OF EDUCATION	(1,600)	-
U.S. Dept of Education	Direct	84.007	P007A222045 SEOG 22-23	U.S. DEPT OF EDUCATION	1,624,177	-
U.S. Dept of Education	Direct	84.033	P033A212045 FWS 21-22	U.S. DEPT OF EDUCATION	(39)	-
U.S. Dept of Education	Direct	84.033	P033A212045 FWS 22-23	U.S. DEPT OF EDUCATION	2,591,329	-
U.S. Dept of Education	Direct	84.033	USDE P033A222045 FWS JL 22-23	U.S. DEPT OF EDUCATION	46,497	-
U.S. Dept of Education	Direct	84.033	P033A222045 FWS AR 22-23	U.S. DEPT OF EDUCATION	36,102	-
U.S. Dept of Education	Direct	84.038	Variou S. Perkins	U.S. DEPT OF EDUCATION	8,789,899	-
U.S. Dept of Education	Direct	84.063	USDE P063P210233 PELL 21-22	U.S. DEPT OF EDUCATION	119,176	-
U.S. Dept of Education	Direct	84.063	USDE P063P220233 PELL 22-23	U.S. DEPT OF EDUCATION	43,077,786	-
U.S. Dept of Education	Direct	84.063	P063P110233 PELL ADMIN ALLOWANCE	U.S. DEPT OF EDUCATION	40,820	-
U.S. Dept of Education	Direct	84.268	FED DIRECT LOAN PROGRAM	U.S. DEPT OF EDUCATION	352,087,062	-
U.S. Dept of Education	Direct	84.268	FED DIRECT LOAN PROGRAM	U.S. DEPT OF EDUCATION	6,641,321	-
U.S. Dept of Education	Direct	84.379	P379T230233 TEACH 22-23	U.S. DEPT OF EDUCATION	48,093	-
U.S. Dept of Education	Direct	84.408	IRAQ & AFGHANISTAN 21-22	U.S. DEPT OF EDUCATION	9,751	-
U.S. Dept of Education Total					415,104,374	-
U.S. Dept of Health and Human Services	Direct	93.264	VARI0U.S. - NURSING FACULTY PROG STUDENT LOANS	HEALTH RESOURCES & SERVICES ADMIN -PHS	403,475	-
U.S. Dept of Health and Human Services	Direct	93.342	VARI0U.S. - HEALTH PROFESSIONAL STUDENT LOANS	HEALTH RESOURCES & SERVICES ADMIN -PHS	14,364,044	-
U.S. Dept of Health and Human Services	Direct	93.364	VARI0U.S. - NURSING PROFESSION STUDENT LOANS	HEALTH RESOURCES & SERVICES ADMIN -PHS	15,367	-
U.S. Dept of Health and Human Services	Direct	93.925	T08HP39294	HEALTH RESOURCES & SERVICES ADMINISTRATION	243,270	-
U.S. Dept of Health and Human Services Total					15,026,156	-
TOTAL STUDENT FINANCIAL ASSISTANCE PROGRAMS CLUSTER					430,130,530	-
CCDF CLUSTER						
U.S. Dept of Health and Human Services	Direct	93.575	90YE0264-01-00	ADMINISTRATION FOR CHILDREN & FAMILIES	4,759	-
U.S. Dept of Health and Human Services	Pass-through	93.575	2131AS-GSRPEV5	MICHIGAN DEPT OF EDUCATION	162,291	-
TOTAL CCDF CLUSTER					167,050	-
ECONOMIC DEVELOPMENT CLUSTER						
U.S. Dept of Commerce	Direct	11.307	COVID-19 - ED20CH9070035	U.S. ECONOMIC DEVELOPMENT ADMINISTRATION	80,101	-
TOTAL ECONOMIC DEVELOPMENT CLUSTER					80,101	-
FISH AND WILDLIFE CLUSTER						
U.S. Dept of Interior	Pass-through	15.611	GG 75122000001052 / WLD1614	MICHIGAN DEPT OF NATURAL RESOURCES	40,889	-
U.S. Dept of Interior	Pass-through	15.611	IP# 00580166	NORTH DAKOTA GAME & FISH DEPARTMENT	59,079	-
U.S. Dept of Interior	Pass-through	15.611	WLD2309	MICHIGAN DEPT OF NATURAL RESOURCES	118,899	-
TOTAL FISH AND WILDLIFE CLUSTER					218,867	-
HIGHWAY SAFETY CLUSTER						
U.S. Dept of Transportation	Pass-through	20.616	OP-23-03	MICHIGAN OFFICE OF HIGHWAY SAFETY PLANNING	\$ 41,308	\$ -
U.S. Dept of Transportation	Pass-through	20.616	OP-23-02	MICHIGAN OFFICE OF HIGHWAY SAFETY PLANNING	75,193	-
U.S. Dept of Transportation	Pass-through	20.616	OP-23-03	MICHIGAN OFFICE OF HIGHWAY SAFETY PLANNING	54,294	-
TOTAL HIGHWAY SAFETY CLUSTER					170,795	-
MEDICAID CLUSTER						
U.S. Dept of Health and Human Services	Pass-through	93.778	E20221864-00 AC	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	184,667	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20222210-00 Y	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	24,623	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20222212-00 AG	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	50,606	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20222869-00 P	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	28,991	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20222132-00 AF	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	226,946	7,047
U.S. Dept of Health and Human Services	Pass-through	93.778	E20223720-00 W	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	24,580	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20222211-00 AA	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	40,983	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20222867-00 F	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	3,806	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20222209-00 O	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	55,970	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20234424-00-AP	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	544,414	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20234273-00-AD	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	147,875	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20234152-00-F	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	18,044	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20233345-00-S	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	296	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20233659-00-AB	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	112,705	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20234361-00-AL	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	30,177	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20233701-00-AH	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	83,517	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20234151-00-P	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	31,140	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20232926-00-W	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	33,368	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20234425-00-AM	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	48,982	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20233558-00-Z	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	63,582	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20234383-00-K	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	123,342	-
U.S. Dept of Health and Human Services	Pass-through	93.778	E20234421-00-AS	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	19,876	-
U.S. Dept of Health and Human Services	Pass-through	93.778	SUBK00019257	UNIVERSITY OF MICHIGAN	20,776	-
TOTAL MEDICAID CLUSTER					1,919,266	7,047
HEAD START CLUSTER						
U.S. Dept of Health and Human Services	Pass-through	93.600	05CH8365	CACS HEAD START	43,789	-
U.S. Dept of Health and Human Services	Pass-through	93.600	05CH3865EL	CACS HEAD START	5,274	-
U.S. Dept of Health and Human Services	Pass-through	93.600	IP00634671	CACS HEAD START	81,844	-
U.S. Dept of Health and Human Services	Pass-through	93.600	IP00634678	CACS HEAD START	56,003	-
TOTAL HEAD START CLUSTER					186,910	-
CDBG - ENTITLEMENT GRANTS CLUSTER						
U.S. Dept of Housing and Urban Development	Pass-through	14.218	B20MC260016	CITY OF WARREN	963	-
U.S. Dept of Housing and Urban Development	Pass-through	14.218	IP 593513	EAST LANSING COMMUNITY BLOCK GRANT	1,059	-
TOTAL CDBG - ENTITLEMENT GRANTS CLUSTER					2,022	-
SNAP CLUSTER						
U.S. Dept of Agriculture	Pass-through	10.561	E20223962-00 AD	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	1,625,426	-
U.S. Dept of Agriculture	Pass-through	10.561	E20222617-00 AE	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	51,698	-
U.S. Dept of Agriculture	Pass-through	10.561	E20234274-00-AE	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	5,370,469	-
TOTAL SNAP CLUSTER					7,047,593	-
TRIO CLUSTER						
U.S. Dept of Education	Direct	84.042	P042A200787	U.S. DEPT OF EDUCATION	775,278	-
U.S. Dept of Education	Direct	84.044	P044A160125	U.S. DEPT OF EDUCATION	33,439	-
U.S. Dept of Education	Direct	84.047	P047A221155	U.S. DEPT OF EDUCATION	136,470	-
TOTAL TRIO CLUSTER					945,187	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
WIOA CLUSTER						
U.S. Dept of Labor	Pass-through	17.258	MICA 3.0_2021_IMPARTAlliance	MICHIGAN DEPT OF ENERGY LABOR & ECONOMIC GROWTH	\$ 115,461	\$ -
TOTAL WIOA CLUSTER					115,461	-
OTHER FEDERAL AWARDS						
U.S. Dept of Agriculture	Direct	10.001	22-PA-11090400-040	USDA FOREST SERVICE	63,627	-
U.S. Dept of Agriculture	Direct	10.001	GENERAL FISCAL AGENT	U.S. DEPT OF AGRICULTURE	165	-
U.S. Dept of Agriculture	Direct	10.001	45-5484-8-0019 PHONE	U.S. DEPT OF AGRICULTURE	2,807	-
U.S. Dept of Agriculture	Direct	10.025	AP21VSD&B000C113	ANIMAL & PLANT HEALTH INSPECTION SERVICE	96,271	-
U.S. Dept of Agriculture	Direct	10.025	AP23VSD&B000C054	U.S. DEPT OF AGRICULTURE	1,989	-
U.S. Dept of Agriculture	Direct	10.172	AM180100XXXXG125	AGRICULTURAL MARKETING SERVICE	15,932	15,000
U.S. Dept of Agriculture	Direct	10.174	AM180100XXXXG153	AGRICULTURAL MARKETING SERVICE	22,093	-
U.S. Dept of Agriculture	Direct	10.175	21FMPPMH020-00	AGRICULTURAL MARKETING SERVICE	117,889	-
U.S. Dept of Agriculture	Direct	10.177	AM190100XXXXG182	AGRICULTURAL MARKETING SERVICE	153,664	-
U.S. Dept of Agriculture	Direct	10.210	2017-38420-26759	NATIONAL INST OF FOOD & AGRICULTURE	6,340	-
U.S. Dept of Agriculture	Direct	10.210	2017-38420-26823	NATIONAL INST OF FOOD & AGRICULTURE	6,000	-
U.S. Dept of Agriculture	Direct	10.210	2022-38420-38615	NATIONAL INST OF FOOD & AGRICULTURE	18,109	-
U.S. Dept of Agriculture	Direct	10.217	2019-70003-29088	NATIONAL INST OF FOOD & AGRICULTURE	57,473	36,449
U.S. Dept of Agriculture	Direct	10.217	2019-70003-29088	NATIONAL INST OF FOOD & AGRICULTURE	11,544	-
U.S. Dept of Agriculture	Direct	10.217	2020-70003-32298	NATIONAL INST OF FOOD & AGRICULTURE	195,169	-
U.S. Dept of Agriculture	Direct	10.220	2018-38413-28143	NATIONAL INST OF FOOD & AGRICULTURE	53,255	-
U.S. Dept of Agriculture	Direct	10.220	2018-38413-28142	NATIONAL INST OF FOOD & AGRICULTURE	17,982	-
U.S. Dept of Agriculture	Direct	10.226	2020-38414-31877	NATIONAL INST OF FOOD & AGRICULTURE	106,614	1,804
U.S. Dept of Agriculture	Direct	10.226	2020-38414-31877	NATIONAL INST OF FOOD & AGRICULTURE	8,000	-
U.S. Dept of Agriculture	Direct	10.234	2023-70417-39233	NATIONAL INST OF FOOD & AGRICULTURE	66,576	-
U.S. Dept of Agriculture	Direct	10.304	2021-37824-35418	NATIONAL INST OF FOOD & AGRICULTURE	19,021	-
U.S. Dept of Agriculture	Direct	10.310	2019-67012-29732	NATIONAL INST OF FOOD & AGRICULTURE	978	-
U.S. Dept of Agriculture	Direct	10.310	2020-67037-31038	NATIONAL INST OF FOOD & AGRICULTURE	88,254	-
U.S. Dept of Agriculture	Direct	10.310	2020-67034-31883	NATIONAL INST OF FOOD & AGRICULTURE	(14,223)	-
U.S. Dept of Agriculture	Direct	10.310	2021-67037-34657	NATIONAL INST OF FOOD & AGRICULTURE	3,039	-
U.S. Dept of Agriculture	Direct	10.310	2021-67037-34657	NATIONAL INST OF FOOD & AGRICULTURE	50,788	-
U.S. Dept of Agriculture	Direct	10.310	2021-67037-34621	NATIONAL INST OF FOOD & AGRICULTURE	37,337	-
U.S. Dept of Agriculture	Direct	10.310	2021-67034-35155	NATIONAL INST OF FOOD & AGRICULTURE	84,859	-
U.S. Dept of Agriculture	Direct	10.310	2021-67012-35133	NATIONAL INST OF FOOD & AGRICULTURE	79,890	-
U.S. Dept of Agriculture	Direct	10.310	2021-67012-35038	NATIONAL INST OF FOOD & AGRICULTURE	78,850	-
U.S. Dept of Agriculture	Direct	10.310	2021-67034-35155	NATIONAL INST OF FOOD & AGRICULTURE	3,349	-
U.S. Dept of Agriculture	Direct	10.310	2021-67012-35038	NATIONAL INST OF FOOD & AGRICULTURE	4,921	-
U.S. Dept of Agriculture	Direct	10.310	2022-67011-36455	NATIONAL INST OF FOOD & AGRICULTURE	49,164	-
U.S. Dept of Agriculture	Direct	10.310	2022-67011-36455	NATIONAL INST OF FOOD & AGRICULTURE	5,898	-
U.S. Dept of Agriculture	Direct	10.310	2022-67011-36562	NATIONAL INST OF FOOD & AGRICULTURE	45,684	-
U.S. Dept of Agriculture	Direct	10.310	2022-67011-36562	NATIONAL INST OF FOOD & AGRICULTURE	2,472	-
U.S. Dept of Agriculture	Direct	10.310	2022-67011-36561	NATIONAL INST OF FOOD & AGRICULTURE	53,702	-
U.S. Dept of Agriculture	Direct	10.310	2022-67021-37438	NATIONAL INST OF FOOD & AGRICULTURE	49,880	-
U.S. Dept of Agriculture	Direct	10.310	2022-67013-38081	NATIONAL INST OF FOOD & AGRICULTURE	15,099	-
U.S. Dept of Agriculture	Direct	10.310	2022-67013-38081	NATIONAL INST OF FOOD & AGRICULTURE	33,922	-
U.S. Dept of Agriculture	Direct	10.310	2023-67013-68785	NATIONAL INST OF FOOD & AGRICULTURE	26,177	-
U.S. Dept of Agriculture	Direct	10.310	2023-67011-40349	NATIONAL INST OF FOOD & AGRICULTURE	1,515	-
U.S. Dept of Agriculture	Direct	10.311	2020-49400-32429	NATIONAL INST OF FOOD & AGRICULTURE	180,499	15,465
U.S. Dept of Agriculture	Direct	10.311	2020-49400-32429	NATIONAL INST OF FOOD & AGRICULTURE	246	-
U.S. Dept of Agriculture	Direct	10.311	COVID-19 - 2020-49400-32429	NATIONAL INST OF FOOD & AGRICULTURE	58,756	-
U.S. Dept of Agriculture	Direct	10.311	COVID-19 - 2020-49400-32429	NATIONAL INST OF FOOD & AGRICULTURE	4,762	-
U.S. Dept of Agriculture	Direct	10.311	2021-70033-35833	NATIONAL INST OF FOOD & AGRICULTURE	81,996	5,700
U.S. Dept of Agriculture	Direct	10.311	2021-70033-35833	NATIONAL INST OF FOOD & AGRICULTURE	750	-
U.S. Dept of Agriculture	Direct	10.329	2018-70006-28883	NATIONAL INST OF FOOD & AGRICULTURE	988,430	412,853
U.S. Dept of Agriculture	Direct	10.329	2018-70006-28883	NATIONAL INST OF FOOD & AGRICULTURE	8,703	-
U.S. Dept of Agriculture	Direct	10.329	2018-70006-28883	NATIONAL INST OF FOOD & AGRICULTURE	4,029	-
U.S. Dept of Agriculture	Direct	10.329	IP 577955	NATIONAL INST OF FOOD & AGRICULTURE	14,399	-
U.S. Dept of Agriculture	Direct	10.329	2021-70006-35450	NATIONAL INST OF FOOD & AGRICULTURE	186,494	-
U.S. Dept of Agriculture	Direct	10.329	2018-70006-28883	NATIONAL INST OF FOOD & AGRICULTURE	1,289	-
U.S. Dept of Agriculture	Direct	10.336	2018-70024-28817	NATIONAL INST OF FOOD & AGRICULTURE	22,898	9,104
U.S. Dept of Agriculture	Direct	10.336	2018-70024-28817	NATIONAL INST OF FOOD & AGRICULTURE	14,362	-
U.S. Dept of Agriculture	Direct	10.336	2022-70024-37767	NATIONAL INST OF FOOD & AGRICULTURE	35,810	-
U.S. Dept of Agriculture	Direct	10.460	RMA21CPT0011591	U.S. DEPT OF AGRICULTURE	42,405	-
U.S. Dept of Agriculture	Direct	10.460	RMA21CPT0011591	U.S. DEPT OF AGRICULTURE	16,872	-
U.S. Dept of Agriculture	Direct	10.460	RMA22CPT0012390	U.S. DEPT OF AGRICULTURE	123,428	-
U.S. Dept of Agriculture	Direct	10.460	RMA22CPT0012390	U.S. DEPT OF AGRICULTURE	18,277	-
U.S. Dept of Agriculture	Direct	10.500	2018-41590-28722	NATIONAL INST OF FOOD & AGRICULTURE	90,450	107,011
U.S. Dept of Agriculture	Direct	10.500	2022-41580-37928	NATIONAL INST OF FOOD & AGRICULTURE	70,505	-
U.S. Dept of Agriculture	Direct	10.500	2022-41210-38258	NATIONAL INST OF FOOD & AGRICULTURE	12,816	-
U.S. Dept of Agriculture	Direct	10.500	2022-41590-38121	NATIONAL INST OF FOOD & AGRICULTURE	45,805	-
U.S. Dept of Agriculture	Direct	10.511	N21SLBCXXXXG016-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	2,106,073	-
U.S. Dept of Agriculture	Direct	10.511	N21SLBCXXXXG016-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	819,509	-
U.S. Dept of Agriculture	Direct	10.511	N21SLBCXXXXG016-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	1,227,467	-
U.S. Dept of Agriculture	Direct	10.511	N21SLBCXXXXG016-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	878,595	-
U.S. Dept of Agriculture	Direct	10.511	N21SLBCXXXXG016-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	2,120,892	-
U.S. Dept of Agriculture	Direct	10.511	N21SLBCXXXXG016-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	898,231	-
U.S. Dept of Agriculture	Direct	10.511	N21SLBCXXXXG016-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	61,342	-
U.S. Dept of Agriculture	Direct	10.511	N21SLBCXXXXG016-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	5,477	-
U.S. Dept of Agriculture	Direct	10.511	N21SLBCXXXXG016-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	169,580	-
U.S. Dept of Agriculture	Direct	10.511	N21SLBCXXXXG016-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	105,028	-
U.S. Dept of Agriculture	Direct	10.511	N21SLBCXXXXG016-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	77,271	-
U.S. Dept of Agriculture	Direct	10.511	N21SLBCXXXXG016-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	88,290	-
U.S. Dept of Agriculture	Direct	10.511	N22SLBCXXXXG006-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	94,617	-
U.S. Dept of Agriculture	Direct	10.511	N22SLBCXXXXG006-SMITH-LEVER	U.S. DEPT OF AGRICULTURE	75,612	-
U.S. Dept of Agriculture	Direct	10.511	N23SLBCXXXXG048	U.S. DEPT OF AGRICULTURE	10,350	-
U.S. Dept of Agriculture	Direct	10.514	N21EFNEPXXXG002	U.S. DEPT OF AGRICULTURE	1,890,404	-
U.S. Dept of Agriculture	Direct	10.515	2019-46401-30329	NATIONAL INST OF FOOD & AGRICULTURE	(631)	17,677
U.S. Dept of Agriculture	Direct	10.515	2021-46401-34788	NATIONAL INST OF FOOD & AGRICULTURE	45,452	-
U.S. Dept of Agriculture	Direct	10.515	2021-46401-35958	NATIONAL INST OF FOOD & AGRICULTURE	37,236	-
U.S. Dept of Agriculture	Direct	10.515	N21RREAFXXXG035	U.S. DEPT OF AGRICULTURE	104,235	-
U.S. Dept of Agriculture	Direct	10.516	2020-46100-32815	NATIONAL INST OF FOOD & AGRICULTURE	67,040	-
U.S. Dept of Agriculture	Direct	10.517	2017-41580-26940	NATIONAL INST OF FOOD & AGRICULTURE	28,374	-
U.S. Dept of Agriculture	Direct	10.522	2020-70026-33220	NATIONAL INST OF FOOD & AGRICULTURE	18,234	-
U.S. Dept of Agriculture	Direct	10.527	2020-70411-32766	NATIONAL INST OF FOOD & AGRICULTURE	3,748	-
U.S. Dept of Agriculture	Direct	10.527	2020-70411-32766	NATIONAL INST OF FOOD & AGRICULTURE	27,984	-
U.S. Dept of Agriculture	Direct	10.603	EMP-2021-13	FOREIGN AGRICULTURAL SERVICE	107,252	-
U.S. Dept of Agriculture	Direct	10.613	FX19FE-10613R002	FOREIGN AGRICULTURAL SERVICE	14,496	-
U.S. Dept of Agriculture	Direct	10.620	FX22SX-10620R001	FOREIGN AGRICULTURAL SERVICE	34,104	-
U.S. Dept of Agriculture	Direct	10.690	21-DG-11094200-364	USDA FOREST SERVICE	46,057	-
U.S. Dept of Agriculture	Direct	10.698	20-DG-11094200-251	USDA FOREST SERVICE	12,436	-
U.S. Dept of Agriculture	Direct	10.698	20-DG-11094200-251	USDA FOREST SERVICE	13,367	-
U.S. Dept of Agriculture	Direct	10.699	18-PA-11090400-040	USDA FOREST SERVICE	3,781	-
U.S. Dept of Agriculture	Direct	10.699	21-PA-11090400-032	USDA FOREST SERVICE	5,033	-
U.S. Dept of Agriculture	Direct	10.699	22-CS-11242306-072	USDA FOREST SERVICE	54,622	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
OTHER FEDERAL AWARDS (CONTINUED)						
U.S. Dept of Agriculture	Direct	10.777	FX19BF-10777R011	FOREIGN AGRICULTURAL SERVICE	\$ 22,246	\$ -
U.S. Dept of Agriculture	Direct	10.777	FX19BF-10777R039	FOREIGN AGRICULTURAL SERVICE	7,483	-
U.S. Dept of Agriculture	Direct	10.777	FX20BF-10777R011	FOREIGN AGRICULTURAL SERVICE	56,153	-
U.S. Dept of Agriculture	Direct	10.777	FX21BF-10777R012	FOREIGN AGRICULTURAL SERVICE	28,721	-
U.S. Dept of Agriculture	Direct	10.777	FX21BF-10777R021	FOREIGN AGRICULTURAL SERVICE	27,186	-
U.S. Dept of Agriculture	Direct	10.777	FX21BF-10777R021	FOREIGN AGRICULTURAL SERVICE	13,660	-
U.S. Dept of Agriculture	Direct	10.777	FX19BF-10777R023	FOREIGN AGRICULTURAL SERVICE	57,649	-
U.S. Dept of Agriculture	Direct	10.868	26-033-030879893	RURAL B.US. COOPERATIVE SERVICE	21,500	-
U.S. Dept of Agriculture	Direct	10.868	26-033-030879893	OFFICE OF RURAL DEVELOPMENT	39,983	-
U.S. Dept of Agriculture	Direct	10.868	26-033-030879893	U.S. DEPT OF AGRICULTURE	3,288	-
U.S. Dept of Agriculture	Direct	10.902	NR123A750027C007	NATURAL RESOURCES CONSERVATION SERVICE	8,505	-
U.S. Dept of Agriculture	Direct	10.903	NR203A750023C009	USDA-NATURAL RESOURCES CONSERVATION SERVICE	5,000	-
U.S. Dept of Agriculture	Direct	10.932	NR185D21XXXXC002	NATURAL RESOURCES CONSERVATION SERVICE	67,114	-
U.S. Dept of Agriculture	Direct	10.960	FX20TA-10960R005	FOREIGN AGRICULTURAL SERVICE	6,320	-
U.S. Dept of Agriculture	Direct	10.960	FX20TA-10960R014	FOREIGN AGRICULTURAL SERVICE	7,309	-
U.S. Dept of Agriculture	Direct	10.960	FX20TA-10960R018	FOREIGN AGRICULTURAL SERVICE	126,994	-
U.S. Dept of Agriculture	Direct	10.960	FX20TA-10960R005	FOREIGN AGRICULTURAL SERVICE	177,746	342,430
U.S. Dept of Agriculture	Direct	10.962	FX19CO-10962R059	FOREIGN AGRICULTURAL SERVICE	44,348	-
U.S. Dept of Agriculture	Direct	10.962	FX21CO-10962R008	FOREIGN AGRICULTURAL SERVICE	64,501	-
U.S. Dept of Agriculture	Direct	10.962	FX21CO-10962R029	FOREIGN AGRICULTURAL SERVICE	1,865	-
U.S. Dept of Agriculture	Direct	10.962	FX22CO-10962R006	FOREIGN AGRICULTURAL SERVICE	68,184	-
U.S. Dept of Agriculture	Direct	10.962	FX23CO-10962R004	FOREIGN AGRICULTURAL SERVICE	7,440	-
Direct Total					15,880,865	963,493
U.S. Dept of Agriculture	Pass-through	10.170	IP00531164	MICHIGAN CHRISTMAS TREE ASSOC	32,250	-
U.S. Dept of Agriculture	Pass-through	10.170	IP00533591	MICHIGAN DEPT OF EDUCATION	46,169	-
U.S. Dept of Agriculture	Pass-through	10.175	IP00553424	KALAMAZOO VALLEY COMMUNITY COLLEGE	19,466	-
U.S. Dept of Agriculture	Pass-through	10.215	H008568302	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	42,682	12,476
U.S. Dept of Agriculture	Pass-through	10.215	H008917113	MICHIGAN FOOD & FARMING SYSTEMS	14,718	-
U.S. Dept of Agriculture	Pass-through	10.215	H009277414	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	38,827	-
U.S. Dept of Agriculture	Pass-through	10.215	H008568326	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	20,407	-
U.S. Dept of Agriculture	Pass-through	10.215	H009897618	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	10,515	-
U.S. Dept of Agriculture	Pass-through	10.217	F0003792902025	PURDUE UNIV	7,648	-
U.S. Dept of Agriculture	Pass-through	10.303	F9002796702107 F9002796702017	PURDUE UNIV	1,516	-
U.S. Dept of Agriculture	Pass-through	10.310	2238-207-2014193	CLEMSON UNIV	16,548	-
U.S. Dept of Agriculture	Pass-through	10.310	2021-03	CORP FOR A SKILLED WORKFORCE	21,344	-
U.S. Dept of Agriculture	Pass-through	10.310	2019-1507-28	NORTH CAROLINA STATE UNIV	8,041	-
U.S. Dept of Agriculture	Pass-through	10.310	S002481-USDA	PENNSYLVANIA STATE UNIV	41,349	-
U.S. Dept of Agriculture	Pass-through	10.310	SPC-1000005969 GR126643	OHIO STATE UNIV	61,018	-
U.S. Dept of Agriculture	Pass-through	10.328	019673J	IOWA STATE UNIV	2,475	-
U.S. Dept of Agriculture	Pass-through	10.328	024575D	IOWA STATE UNIV	12,586	-
U.S. Dept of Agriculture	Pass-through	10.329	026461A	IOWA STATE UNIV	15,516	-
U.S. Dept of Agriculture	Pass-through	10.329	026461I	IOWA STATE UNIV	2,320	-
U.S. Dept of Agriculture	Pass-through	10.331	IP4 00575635	FAIR FOOD NETWORK	23,618	-
U.S. Dept of Agriculture	Pass-through	10.334	IP 536187	MICHIGAN FOOD & FARMING SYSTEMS	54,709	-
U.S. Dept of Agriculture	Pass-through	10.500	BMCC 2018-47002-28637	BAY HILLS COMMUNITY COLLEGE	1,416	-
U.S. Dept of Agriculture	Pass-through	10.500	101598-18127	UNIVERSITY OF ILLINOIS	100,698	-
U.S. Dept of Agriculture	Pass-through	10.500	25-8324-0187-321	UNIVERSITY OF NEBRASKA - LINCOLN	44,165	-
U.S. Dept of Agriculture	Pass-through	10.500	018000.342088.01	MISSISSIPPI STATE UNIV	2,885	-
U.S. Dept of Agriculture	Pass-through	10.500	NTAE-2021-2175	EXTENSION FOUNDATION	5,594	-
U.S. Dept of Agriculture	Pass-through	10.500	A22-0394-S011	KANSAS STATE UNIV	2,965	-
U.S. Dept of Agriculture	Pass-through	10.500	A00-0983-S110	KANSAS STATE UNIV	5,865	-
U.S. Dept of Agriculture	Pass-through	10.500	A00-0983-S110	KANSAS STATE UNIV	30	-
U.S. Dept of Agriculture	Pass-through	10.515	000001277	UNIVERSITY OF WISCONSIN MADISON	1,032	-
U.S. Dept of Agriculture	Pass-through	10.525	GG 210000003186	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	225,992	-
U.S. Dept of Agriculture	Pass-through	10.557	E20222065-00 H	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	8,280	-
U.S. Dept of Agriculture	Pass-through	10.664	F9000151802024	PURDUE UNIV	4,924	-
U.S. Dept of Agriculture	Pass-through	10.664	20042A	AMERICAN BIRD CONSERVANCY	(262)	-
U.S. Dept of Agriculture	Pass-through	10.674	0100	WILSON ENGINEERING SERVICES, PC	2,648	-
U.S. Dept of Agriculture	Pass-through	10.674	23-00494	U.S. ENDOWMENT FOR FORESTRY & COMMUNITIES INC	18,889	-
U.S. Dept of Agriculture	Pass-through	10.902	F0003326702002	PURDUE UNIV	1,826	-
U.S. Dept of Agriculture	Pass-through	10.935	IP00609383	THE GIVING GROVE	49,933	-
Pass-through Total					970,602	12,476
U.S. Dept of Agriculture Total					16,851,467	975,969
U.S. Dept of Commerce	Direct	11.031	26-08-42215	U.S. DEPT OF COMMERCE	1,189,174	-
Direct Total					1,189,174	-
U.S. Dept of Commerce	Pass-through	11.001	S2020-135	SYNOPTIC DATA CORP	287,120	-
U.S. Dept of Commerce	Pass-through	11.407	RC21N0AA20	ILLINOIS DEPT OF NATURAL RESOURCES	32,930	-
U.S. Dept of Commerce	Pass-through	11.407	IP 568997	MINNESOTA DEPT OF NATURAL RESOURCES	22,563	-
U.S. Dept of Commerce	Pass-through	11.407	FISH2 2023-05	MICHIGAN DEPT OF NATURAL RESOURCES	25,663	-
U.S. Dept of Commerce	Pass-through	11.417	SUBK00011048	UNIVERSITY OF MICHIGAN	14,340	-
U.S. Dept of Commerce	Pass-through	11.417	097126-17815	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	(8)	-
U.S. Dept of Commerce	Pass-through	11.417	097126-17815	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	500	-
U.S. Dept of Commerce	Pass-through	11.417	F0008309702053	PURDUE UNIV	68,956	-
U.S. Dept of Commerce	Pass-through	11.417	F0008309702053	PURDUE UNIV	28,130	-
U.S. Dept of Commerce	Pass-through	11.417	0000001919	UNIVERSITY OF WISCONSIN MADISON	1,283	-
U.S. Dept of Commerce	Pass-through	11.429	0001	NORTHEAST MICHIGAN COMMUNITY FOUNDATION	454	-
U.S. Dept of Commerce	Pass-through	11.432	SUBK00017961	UNIVERSITY OF MICHIGAN	5,884	-
Pass-through Total					487,815	-
U.S. Dept of Commerce Total					1,676,989	-
U.S. Dept of Defense	Direct	12.001	H9245621P0255	U.S. DEPT OF THE ARMY	2,602	-
U.S. Dept of Defense	Direct	12.002	IP 569151	THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY	402	-
U.S. Dept of Defense	Direct	12.003	22190-1.0	EA ENGINEERING SCIENCE & TECHNOLOGY INC PBC	59,970	-
U.S. Dept of Defense	Direct	12.420	W81XWH-18-1-0233	U.S. DEPT OF THE ARMY	12,592	-
U.S. Dept of Defense	Direct	12.900	H98230-22-1-0076	NATIONAL SECURITY AGENCY	71,779	-
Direct Total					147,345	-
U.S. Dept of Defense	Pass-through	12.003	201825-140909	PPG INDUSTRIES INC	87,883	-
U.S. Dept of Defense	Pass-through	12.004	FA807518D00004 POP73742	BOOZ ALLEN HAMILTON INC	153,133	-
Pass-through Total					241,016	-
U.S. Dept of Defense Total					388,361	-
U.S. Dept of Interior	Direct	15.001	IP 00564669	U.S. GEOLOGICAL SURVEY	14,546	-
U.S. Dept of Interior	Direct	15.820	G18AC00336	U.S. GEOLOGICAL SURVEY	40,000	-
U.S. Dept of Interior	Direct	15.922	P21AP11616	NATIONAL PARK SERVICE	1,736	-
U.S. Dept of Interior	Direct	15.933	P20AP00340	NATIONAL PARK SERVICE	116,946	-
U.S. Dept of Interior	Direct	15.945	P18AC01019	NATIONAL PARK SERVICE	16,581	-
U.S. Dept of Interior	Direct	15.945	P18AC01067	NATIONAL PARK SERVICE	54,424	-
U.S. Dept of Interior	Direct	15.945	P21AC11681-00	NATIONAL PARK SERVICE	65,479	-
Direct Total					309,712	-
U.S. Dept of Interior	Pass-through	15.630	SF-424A 6f Contractor	ST JAMES TOWNSHIP	22,648	-
U.S. Dept of Interior	Pass-through	15.634	751B7700034 DO 220000002496	MICHIGAN DEPT OF NATURAL RESOURCES	7,075	-
U.S. Dept of Interior	Pass-through	15.634	230000001690	MICHIGAN DEPT OF NATURAL RESOURCES	1,274	-
U.S. Dept of Interior	Pass-through	15.662	AISGL20-001	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	85,180	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
OTHER FEDERAL AWARDS (CONTINUED)						
U.S. Dept of Interior	Pass-through	15.662	IP# 00605300	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	\$ 13,639	\$ -
U.S. Dept of Interior	Pass-through	15.808	ASUB00001060	ARIZONA STATE UNIV	20,000	-
	Pass-through Total				149,816	-
	U.S. Dept of Interior Total				459,528	-
U.S. Dept of Justice	Direct	16.738	2018-DP-BX-K011	U.S. DEPT OF JUSTICE	267,512	-
U.S. Dept of Justice	Direct	16.839	15PBJA-21-GG-04648-STOP	U.S. DEPT OF JUSTICE	233,233	-
	Direct Total				500,745	-
U.S. Dept of Justice	Pass-through	16.U01		CITY OF FLINT	21,891	-
U.S. Dept of Justice	Pass-through	16.575	E20233398-00	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	1,232,603	-
U.S. Dept of Justice	Pass-through	16.575	E20210524-00	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	(140)	-
U.S. Dept of Justice	Pass-through	16.575	E20220622-00	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	479,375	-
U.S. Dept of Justice	Pass-through	16.575	E20220433-00	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	65,449	-
U.S. Dept of Justice	Pass-through	16.575	E20224186	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	74,635	-
U.S. Dept of Justice	Pass-through	16.575	E20234209-00-G	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	286,457	-
U.S. Dept of Justice	Pass-through	16.582	E20234208-00-AQ	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	139,114	-
U.S. Dept of Justice	Pass-through	16.726	NMP11	NATIONAL 4H COUNCIL	7,098	-
U.S. Dept of Justice	Pass-through	16.726	NMP11	NATIONAL 4H COUNCIL	4,310	-
U.S. Dept of Justice	Pass-through	16.726	15PJDD-21-GG-02766-MENT	NATIONAL 4H COUNCIL	18,032	-
U.S. Dept of Justice	Pass-through	16.726	IP00600079	NATIONAL 4H COUNCIL	19,454	-
U.S. Dept of Justice	Pass-through	16.839	SUBK000011620	UNIVERSITY OF MICHIGAN	61,980	-
U.S. Dept of Justice	Pass-through	16.839	STOP-MH-1-2020	MICHIGAN STATE POLICE	118,647	-
	Pass-through Total				2,528,905	-
	U.S. Dept of Justice Total				3,029,650	-
U.S. Dept of State	Direct	19.040	SPE50019GR0038	U.S. DEPT OF STATE	(162)	-
U.S. Dept of State	Direct	19.040	SJA58021GR3001	U.S. DEPT OF STATE	467	-
U.S. Dept of State	Direct	19.040	SUZ80020CA0136	U.S. DEPT OF STATE	16,530	-
U.S. Dept of State	Direct	19.040	SJA80021GR3034	U.S. DEPT OF STATE	37,514	-
U.S. Dept of State	Direct	19.040	STS80021GR3033	U.S. DEPT OF STATE	14,708	-
U.S. Dept of State	Direct	19.040	SJA8022CA0002	U.S. DEPT OF STATE	26,318	-
U.S. Dept of State	Direct	19.040	SCH25022GR0032	U.S. DEPT OF STATE	16,187	-
U.S. Dept of State	Direct	19.040	SCH25022GR0032	U.S. DEPT OF STATE	5,488	-
U.S. Dept of State	Direct	19.040	SF80022GR0022	U.S. EMBASSY IN FINLAND	4,050	-
U.S. Dept of State	Direct	19.040	SF80022GR0022	U.S. EMBASSY IN FINLAND	11,710	-
U.S. Dept of State	Direct	19.040	SET10022GR0033	U.S. EMBASSY IN ETHIOPIA	128,383	-
U.S. Dept of State	Direct	19.124	SACMP22CA0324	U.S. DEPT OF STATE	109,354	-
U.S. Dept of State	Direct	19.415	SECAGD19CA0102	U.S. DEPT OF STATE	105,738	-
U.S. Dept of State	Direct	19.415	SECAGD21CA3111	U.S. DEPT OF STATE	127,888	-
U.S. Dept of State	Direct	19.415	SECAGD21CA3111	U.S. DEPT OF STATE	125,895	-
U.S. Dept of State	Direct	19.415	SECAGD22CA0087	U.S. DEPT OF STATE	40,596	-
U.S. Dept of State	Direct	19.415	SECAGD22CA0087	U.S. DEPT OF STATE	24	-
U.S. Dept of State	Direct	19.501	SPK33020CA1042	U.S. DEPT OF STATE	(10,604)	-
U.S. Dept of State	Direct	19.501	SPK33020CA1042	U.S. DEPT OF STATE	14,807	-
U.S. Dept of State	Direct	19.501	SPK33021CA3015	U.S. DEPT OF STATE	147,410	-
U.S. Dept of State	Direct	19.501	SPK33021CA3015	U.S. DEPT OF STATE	102,376	-
	Direct Total				1,024,677	-
U.S. Dept of State	Pass-through	19.U01	3000259043	INST OF INTL EDUCATION	114,043	-
U.S. Dept of State	Pass-through	19.U02	3000287548	INST OF INTL EDUCATION	49,484	-
U.S. Dept of State	Pass-through	19.U03	3000287548	INST OF INTL EDUCATION	6,992	-
U.S. Dept of State	Pass-through	19.009	FY22-YALL-CL-MSU-01	INTL RESEARCH & EXCHANGES BOARD	18,500	-
U.S. Dept of State	Pass-through	19.009	FY22-YALL-CL-MSU-01	INTL RESEARCH & EXCHANGES BOARD	103,456	-
U.S. Dept of State	Pass-through	19.009	FY23-YALL-CL-MSU-02	INTL RESEARCH & EXCHANGES BOARD	12,398	-
U.S. Dept of State	Pass-through	19.009	FY23-YALL-CL-MSU-02	INTL RESEARCH & EXCHANGES BOARD	731	-
U.S. Dept of State	Pass-through	19.010	3000224520	INST OF INTL EDUCATION	334	-
U.S. Dept of State	Pass-through	19.010	3000259043	INST OF INTL EDUCATION	70,110	-
U.S. Dept of State	Pass-through	19.040		MAKERERE UNIVERSITY	52,177	-
U.S. Dept of State	Pass-through	19.400	3000243884	INST OF INTL EDUCATION	37,067	-
U.S. Dept of State	Pass-through	19.400	3000243884	INST OF INTL EDUCATION	41,212	-
U.S. Dept of State	Pass-through	19.900	IP 579768	AMER COUNCILS FOR INTL EDUCATION	33,134	-
	Pass-through Total				539,638	-
	U.S. Dept of State Total				1,564,315	-
U.S. Dept of Transportation	Direct	20.215	693J32145094	U.S. DEPT OF TRANSPORTATION	8	-
	Direct Total				8	-
U.S. Dept of Transportation	Pass-through	20.U01	2018-0741	MICHIGAN DEPT OF TRANSPORTATION	250,253	-
U.S. Dept of Transportation	Pass-through	20.200	HR 20-44(026)	NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM	24,547	-
U.S. Dept of Transportation	Pass-through	20.205	P732-19-803	STATE OF NEVADA DEPT OF TRANSPORTATION	14,930	-
U.S. Dept of Transportation	Pass-through	20.205	TPF-5(438)	STATE OF IOWA DEPT OF TRANSPORTATION	27,135	11,557
U.S. Dept of Transportation	Pass-through	20.205	MSUAP01-SPDC	MICHIGAN FITNESS FOUNDATION	48,023	-
U.S. Dept of Transportation	Pass-through	20.205	MSUAP01-SPDC	MICHIGAN FITNESS FOUNDATION	241	-
U.S. Dept of Transportation	Pass-through	20.205	MSUAP01-CEE	MICHIGAN FITNESS FOUNDATION	90,331	-
U.S. Dept of Transportation	Pass-through	20.205	SPR-RE22(010)-8H-00	STATE OF IOWA DEPT OF TRANSPORTATION	146,224	-
U.S. Dept of Transportation	Pass-through	20.205	TPF-5(438)	STATE OF IOWA DEPT OF TRANSPORTATION	62,656	-
U.S. Dept of Transportation	Pass-through	20.205	1036336	MINNESOTA DEPT OF TRANSPORTATION	45,659	-
U.S. Dept of Transportation	Pass-through	20.205	MSUAP01-CEE	MICHIGAN FITNESS FOUNDATION	111,022	-
U.S. Dept of Transportation	Pass-through	20.205	SJ2202	NEBRASKA DEPARTMENT OF TRANSPORTATION	49,190	-
U.S. Dept of Transportation	Pass-through	20.205	MSUAP01-SPDC	MICHIGAN FITNESS FOUNDATION	55,286	-
U.S. Dept of Transportation	Pass-through	20.205	MSUAP01-SPDC	MICHIGAN FITNESS FOUNDATION	13,923	-
U.S. Dept of Transportation	Pass-through	20.205	1036336	MINNESOTA DEPT OF TRANSPORTATION	19,163	-
U.S. Dept of Transportation	Pass-through	20.505	2021-0272	MICHIGAN DEPT OF TRANSPORTATION	179,605	37,590
U.S. Dept of Transportation	Pass-through	20.505	IP00554406	FEONIX MOBILITY RISING	82,485	-
	Pass-through Total				1,220,673	49,147
	U.S. Dept of Transportation Total				1,220,681	49,147
U.S. Dept of Treasury	Direct	21.008	22-LITC0505-02-01	U.S. DEPT OF TREASURY	58,335	-
	Direct Total				58,335	-
U.S. Dept of Treasury	Pass-through	21.019	COVID-19 - E20224205	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	79,049	-
U.S. Dept of Treasury	Pass-through	21.027	COVID-19	MICHIGAN STATE HOUSING DEVELOPMENT AUTHORITY	92,234	-
	Pass-through Total				171,283	-
	U.S. Dept of Treasury Total				229,618	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC19K1332	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	25,366	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC21K0034	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	100,805	-
National Aeronautics and Space Administration	Direct	43.008	80NSSC21M0039	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	(7)	-
	Direct Total				126,164	-
National Aeronautics and Space Administration	Pass-through	43.U01	HST-HF2-51501.001-A	SPACE TELESCOPE SCIENCE INST	81,921	-
National Aeronautics and Space Administration	Pass-through	43.U02	HST-HF2-51501.001-A	SPACE TELESCOPE SCIENCE INST	21,490	-
National Aeronautics and Space Administration	Pass-through	43.001	117835-26477202	UNIVERSITY OF MARYLAND	26	-
National Aeronautics and Space Administration	Pass-through	43.003	2020-1264	UNIVERSITY OF ALABAMA	1,000	-
	Pass-through Total				104,437	-
	National Aeronautics and Space Administration Total				230,601	-
National Endowment for the Arts and Humanities	Direct	45.024	1865758-55-21	NATIONAL ENDOWMENT FOR THE ARTS	(705)	-
National Endowment for the Arts and Humanities	Direct	45.024	1889438-55-22	NATIONAL ENDOWMENT FOR THE ARTS	26,402	-
National Endowment for the Arts and Humanities	Direct	45.130	CHA-268776	NATIONAL ENDOWMENT FOR THE HUMANITIES	95,244	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
OTHER FEDERAL AWARDS (CONTINUED)						
National Endowment for the Arts and Humanities	Direct	45.149	PW-277479-21	NATIONAL ENDOWMENT FOR THE HUMANITIES	\$ 165,612	\$ -
National Endowment for the Arts and Humanities	Direct	45.149	PW-285041-22	NATIONAL ENDOWMENT FOR THE HUMANITIES	71,520	-
National Endowment for the Arts and Humanities	Direct	45.163	EH-288045-22	NATIONAL ENDOWMENT FOR THE HUMANITIES	27,231	-
National Endowment for the Arts and Humanities	Direct	45.169	HAA-284835-22	NATIONAL ENDOWMENT FOR THE HUMANITIES	20,781	-
National Endowment for the Arts and Humanities	Direct	45.301	MA-249384-OMS-21	INST OF MUSEUM & LIBRARY SERVICES	43,251	-
National Endowment for the Arts and Humanities	Direct	45.301	MA-251529-OMS-22	INST OF MUSEUM & LIBRARY SERVICES	11,257	-
Direct Total					460,593	-
National Endowment for the Arts and Humanities	Pass-through	45.025	22PS4337	MICHIGAN COUNCIL FOR ARTS & CULTURAL AFFAIRS	(15)	-
National Endowment for the Arts and Humanities	Pass-through	45.025	23PS6451	MICHIGAN COUNCIL FOR ARTS & CULTURAL AFFAIRS	12,298	-
National Endowment for the Arts and Humanities	Pass-through	45.025	23PS6197	MICHIGAN ARTS & CULTURE COUNCIL	18,041	-
National Endowment for the Arts and Humanities	Pass-through	45.025	23PS6259	MICHIGAN ARTS & CULTURE COUNCIL	11,424	-
National Endowment for the Arts and Humanities	Pass-through	45.025	23PS6760	MICHIGAN ARTS & CULTURE COUNCIL	6,104	-
National Endowment for the Arts and Humanities	Pass-through	45.025	23PS6790	MICHIGAN ARTS & CULTURE COUNCIL	24,000	-
National Endowment for the Arts and Humanities	Pass-through	45.129	HU024-23	MICHIGAN HUMANITIES COUNCIL	14,336	-
National Endowment for the Arts and Humanities	Pass-through	45.129	HU024-23	MICHIGAN HUMANITIES COUNCIL	63	-
National Endowment for the Arts and Humanities	Pass-through	45.129	HU019-23	MICHIGAN HUMANITIES COUNCIL	7,131	-
National Endowment for the Arts and Humanities	Pass-through	45.129	HU080-22	MICHIGAN HUMANITIES COUNCIL	690	-
National Endowment for the Arts and Humanities	Pass-through	45.149	PW-277458-21	GOSHEN COLLEGE	15,415	-
National Endowment for the Arts and Humanities	Pass-through	45.164		SOCIAL SCIENCE RESEARCH COUNCIL	67,336	-
National Endowment for the Arts and Humanities	Pass-through	45.164		SOCIAL SCIENCE RESEARCH COUNCIL	15,762	-
National Endowment for the Arts and Humanities	Pass-through	45.164	94-MI04-2022BMPU	NATIONAL WRITING PROJECT CORP	56,198	-
National Endowment for the Arts and Humanities	Pass-through	45.164	94-MI04-2022BMPU	NATIONAL WRITING PROJECT CORP	198	-
Pass-through Total					248,871	-
National Endowment for the Arts and Humanities Total					709,564	-
U.S. Dept of Veterans Affairs	Direct	64.U01	00640403	U.S. DEPT OF VETERANS AFFAIRS	28,069	-
U.S. Dept of Veterans Affairs	Direct	64.U02	00641162	U.S. DEPT OF VETERANS AFFAIRS	35,106	-
U.S. Dept of Veterans Affairs Total					63,175	-
Environmental Protection Agency	Direct	66.469	00E02224	U.S. ENVIRONMENTAL PROTECTION AGENCY	(392)	-
Environmental Protection Agency	Direct	66.716	839Z7401	U.S. ENVIRONMENTAL PROTECTION AGENCY	244,216	183,650
Environmental Protection Agency	Direct	66.716	839Z7401	U.S. ENVIRONMENTAL PROTECTION AGENCY	139,211	-
Direct Total					383,035	183,650
Environmental Protection Agency	Pass-through	66.460	2020-0001	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	148,435	-
Environmental Protection Agency	Pass-through	66.605	220000000102	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	7,869	-
Environmental Protection Agency	Pass-through	66.605	GG 23*809	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	7,208	-
Environmental Protection Agency	Pass-through	66.608	AQDGG2020P1	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	9,119	-
Environmental Protection Agency	Pass-through	66.716	MSU PSEP 2022	EXTENSION FOUNDATION	4,817	-
Environmental Protection Agency	Pass-through	66.951		TROUT UNLIMITED	1,324	-
Pass-through Total					178,772	-
Environmental Protection Agency Total					561,807	183,650
Smithsonian Institution	Direct	60.U01	22-PO-620-0000479046	SMITHSONIAN INSTITUTION	76,846	-
Smithsonian Institution Total					76,846	-
U.S. Dept of Energy	Direct	81.049	DE-SC0022531	U.S. DEPT OF ENERGY	10,950	-
Direct Total					10,950	-
U.S. Dept of Energy	Pass-through	81.U01	418285	BROOKHAVEN SCIENCE ASSOC LLC	20,786	-
U.S. Dept of Energy	Pass-through	81.041	MEQ-22-007	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	6,302	-
Pass-through Total					27,088	-
U.S. Dept of Energy Total					38,038	-
U.S. Dept of Education	Direct	84.015	P015B220165	U.S. DEPT OF EDUCATION	68,546	-
U.S. Dept of Education	Direct	84.015	P015B220164	U.S. DEPT OF EDUCATION	281,138	-
U.S. Dept of Education	Direct	84.015	P015B220106	U.S. DEPT OF EDUCATION	30,000	-
U.S. Dept of Education	Direct	84.015	P015A220108	U.S. DEPT OF EDUCATION	48,002	-
U.S. Dept of Education	Direct	84.022	P022A190039	U.S. DEPT OF EDUCATION	478	-
U.S. Dept of Education	Direct	84.022	P022A200035	U.S. DEPT OF EDUCATION	4,428	-
U.S. Dept of Education	Direct	84.022	P022A210031	U.S. DEPT OF EDUCATION	27,917	-
U.S. Dept of Education	Direct	84.032	FFELP Loans Receivable	U.S. DEPT OF EDUCATION	571,032	-
U.S. Dept of Education	Direct	84.129	H129B190046	U.S. DEPT OF EDUCATION	41,437	-
U.S. Dept of Education	Direct	84.129	H129B190046	U.S. DEPT OF EDUCATION	176,000	-
U.S. Dept of Education	Direct	84.141	S141A190022	U.S. DEPT OF EDUCATION	517,233	-
U.S. Dept of Education	Direct	84.149	S149A200014	U.S. DEPT OF EDUCATION	538,230	-
U.S. Dept of Education	Direct	84.215	S215K220137	U.S. DEPT OF EDUCATION	559	-
U.S. Dept of Education	Direct	84.229	P229A220008	U.S. DEPT OF EDUCATION	110,422	-
U.S. Dept of Education	Direct	84.305	R305B200009	U.S. DEPT OF EDUCATION	240,604	-
U.S. Dept of Education	Direct	84.305	R305B200009	U.S. DEPT OF EDUCATION	704,022	-
U.S. Dept of Education	Direct	84.325	H325D220056	U.S. DEPT OF EDUCATION	124,285	-
U.S. Dept of Education	Direct	84.325	H325D220056	U.S. DEPT OF EDUCATION	2,071	-
U.S. Dept of Education	Direct	84.335	P335A180261	U.S. DEPT OF EDUCATION	62,133	-
U.S. Dept of Education	Direct	84.335	P335A220042	U.S. DEPT OF EDUCATION	524,239	-
Direct Total					4,102,776	-
U.S. Dept of Education	Pass-through	84.U01	200000002035, DO 200000017752	MICHIGAN DEPT OF EDUCATION	78,043	-
U.S. Dept of Education	Pass-through	84.010	18-0053	DETROIT PUBLIC SCHOOLS	1,940	-
U.S. Dept of Education	Pass-through	84.010	IP 459108	GOBEBIC ONTANOGON INTERMEDIATE SCHOOL DISTRICT	34,981	-
U.S. Dept of Education	Pass-through	84.010		GOBEBIC ONTANOGON INTERMEDIATE SCHOOL DISTRICT	23,078	-
U.S. Dept of Education	Pass-through	84.010	18-0053	DETROIT PUBLIC SCHOOLS	59,512	-
U.S. Dept of Education	Pass-through	84.011	211850-2021	MICHIGAN DEPT OF EDUCATION	143,915	-
U.S. Dept of Education	Pass-through	84.011	231850-2023	MICHIGAN DEPT OF EDUCATION	125,684	-
U.S. Dept of Education	Pass-through	84.305	60056810 MSU	NORTHWESTERN UNIV	21,619	-
U.S. Dept of Education	Pass-through	84.325	61319AM2	VANDERBLT UNIV	127,882	-
U.S. Dept of Education	Pass-through	84.334	20-00-06	DEPT OF LABOR & ECONOMIC OPPORTUNITY	218,481	-
U.S. Dept of Education	Pass-through	84.334	30002550	DEPT OF LABOR & ECONOMIC OPPORTUNITY	35,790	-
U.S. Dept of Education	Pass-through	84.421	MRS-MSU-Disability Innovation Fund-22-226	MICHIGAN REHABILITATION SERVICES	1,260,791	-
U.S. Dept of Education	Pass-through	84.423	10797	WESTERN MICHIGAN UNIV	14,530	-
U.S. Dept of Education	Pass-through	84.423	11094-MSU	WESTERN MICHIGAN UNIV	45,295	-
U.S. Dept of Education	Pass-through	84.425	COVID 19 - 00513018	MICHIGAN VIRTUAL UNIV	(4,126)	-
Pass-through Total					2,187,415	-
U.S. Dept of Education Total					6,290,191	-
Vietnam Education Foundation	Direct	85.802	COVID-19-SCHOOL CERTIFYING OFFICIALS	VIETNAM EDUCATION FOUNDATION	1,350	-
Vietnam Education Foundation Total					1,350	-
U.S. Dept of Health and Human Services	Direct	93.U01	21PA2111279	CENTERS FOR DISEASE CONTROL & PREVENTION	33,890	-
U.S. Dept of Health and Human Services	Direct	93.103	U18FD006175	FOOD & DRUG ADMINISTRATION	(3,735)	-
U.S. Dept of Health and Human Services	Direct	93.103	2U18FD006175-06	FOOD & DRUG ADMINISTRATION	49,321	-
U.S. Dept of Health and Human Services	Direct	93.124	5 A22HP30937 06 00	HEALTH RESOURCES & SERVICES ADMINISTRATION	24,979	-
U.S. Dept of Health and Human Services	Direct	93.157	D34HP24457	HEALTH RESOURCES & SERVICES ADMINISTRATION	143,900	-
U.S. Dept of Health and Human Services	Direct	93.157	COVID-19 - TINHP39162	HEALTH RESOURCES & SERVICES ADMINISTRATION	12	-
U.S. Dept of Health and Human Services	Direct	93.197	5 NUJE2EH001370-04-00	CENTERS FOR DISEASE CONTROL & PREVENTION	1,740,555	895,738
U.S. Dept of Health and Human Services	Direct	93.197	5 NUJE2EH001370-04-00	CENTERS FOR DISEASE CONTROL & PREVENTION	325,613	327,293
U.S. Dept of Health and Human Services	Direct	93.197	1 NUJE2EH001472-01-00	CENTERS FOR DISEASE CONTROL & PREVENTION	3,473,682	-
U.S. Dept of Health and Human Services	Direct	93.247	1T96HP420590100	HEALTH RESOURCES & SERVICES ADMINISTRATION	226,009	-
U.S. Dept of Health and Human Services	Direct	93.247	1T96HP420590100	HEALTH RESOURCES & SERVICES ADMINISTRATION	96,657	-
U.S. Dept of Health and Human Services	Direct	93.262	U600H009466	NATIONAL INST FOR OCCUPATIONAL SAFETY & HEALTH	710,127	5,834
U.S. Dept of Health and Human Services	Direct	93.761	90FPS0014-01-00	U.S. DEPT OF HEALTH & HUMAN SERVICES	4,639	-

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
OTHER FEDERAL AWARDS (CONTINUED)						
U.S. Dept of Health and Human Services	Direct	93.761	90FPSG0014-01-00 PSC	U.S. DEPT OF HEALTH & HUMAN SERVICES	\$ (100)	\$ -
U.S. Dept of Health and Human Services	Direct	93.788	H79T082573	SUBSTANCE ABUSE & MENTAL HEALTH SERVICES ADMINISTRATION	31,171	-
U.S. Dept of Health and Human Services	Direct	93.859	T32GM142521	NATIONAL INST OF GENERAL MEDICAL SCIENCES	25,471	-
U.S. Dept of Health and Human Services	Direct	93.859	T32GM142521	NATIONAL INST OF GENERAL MEDICAL SCIENCES	329,578	-
U.S. Dept of Health and Human Services	Direct	93.865	F31HD 103404	NATIONAL INST OF CHLD HEALTH & HUMAN DEVELOPMENT	(2,153)	-
U.S. Dept of Health and Human Services	Direct	93.865	F31HD 103404	NATIONAL INST OF CHLD HEALTH & HUMAN DEVELOPMENT	2,583	-
U.S. Dept of Health and Human Services	Direct	93.976	K02HP30816	HEALTH RESOURCES & SERVICES ADMINISTRATION	58,343	-
Direct Total					7,270,542	-
U.S. Dept of Health and Human Services	Pass-through	93.U02	X-89075-115-504200	MICHIGAN PUBLIC HEALTH INST	2,179	-
U.S. Dept of Health and Human Services	Pass-through	93.U03	34932	ICF INTL	46,337	-
U.S. Dept of Health and Human Services	Pass-through	93.043	2023-1	NORTHWEST SENIOR RESOURCES INC DBA AREA AGENCY ON AGING	5,164	-
U.S. Dept of Health and Human Services	Pass-through	93.069	E20222280-00 B	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	1,463	-
U.S. Dept of Health and Human Services	Pass-through	93.070	E20223930-00 V	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	6,319	-
U.S. Dept of Health and Human Services	Pass-through	93.080	CDC 442 21-22	HEMOPHLIA FOUNDATION OF MICHIGAN	17,265	-
U.S. Dept of Health and Human Services	Pass-through	93.080	CDC 442 22-23	HEMOPHLIA FOUNDATION OF MICHIGAN	47,178	-
U.S. Dept of Health and Human Services	Pass-through	93.103	21000002713	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	641	-
U.S. Dept of Health and Human Services	Pass-through	93.103	IP 582348	NATIONAL ASSOC OF STATE DEPT OF AG	23	-
U.S. Dept of Health and Human Services	Pass-through	93.103	22000003004	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	184,248	-
U.S. Dept of Health and Human Services	Pass-through	93.103	IP 00629897	NATIONAL ASSOC OF STATE DEPT OF AG	22,056	-
U.S. Dept of Health and Human Services	Pass-through	93.103	22000003004	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	9,985	-
U.S. Dept of Health and Human Services	Pass-through	93.110	SUBK00010309	UNIVERSITY OF MICHIGAN	(13)	-
U.S. Dept of Health and Human Services	Pass-through	93.110	NHSA- MSU-2020-443	SPECTRUM HEALTH SYSTEM	27,871	-
U.S. Dept of Health and Human Services	Pass-through	93.110	MCHB 442 21-22	HEMOPHLIA FOUNDATION OF MICHIGAN	(36)	-
U.S. Dept of Health and Human Services	Pass-through	93.110	WSU22034	WAYNE STATE UNIV	(8)	-
U.S. Dept of Health and Human Services	Pass-through	93.110	E20221861	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	8,681	-
U.S. Dept of Health and Human Services	Pass-through	93.110	E20220066-00 I	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	9,502	-
U.S. Dept of Health and Human Services	Pass-through	93.110	E20222067-00 Z	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	2,097	-
U.S. Dept of Health and Human Services	Pass-through	93.110	E20221863-00X	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	2,722	-
U.S. Dept of Health and Human Services	Pass-through	93.110	MCHB 442 22-23	HEMOPHLIA FOUNDATION OF MICHIGAN	28,017	-
U.S. Dept of Health and Human Services	Pass-through	93.110	WSU2203	WAYNE STATE UNIV	50,836	-
U.S. Dept of Health and Human Services	Pass-through	93.110	E20233510-00-J	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	18,778	-
U.S. Dept of Health and Human Services	Pass-through	93.110	E20232639-00-AA	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	5,139	-
U.S. Dept of Health and Human Services	Pass-through	93.110	E20234382-00-X	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	7,881	-
U.S. Dept of Health and Human Services	Pass-through	93.137	1CPMP201205-01-00	ARAB COMMUNITY CENTER FOR ECONOMIC & SOCIAL SERVICES	110,946	-
U.S. Dept of Health and Human Services	Pass-through	93.137	PD #48473	GREATER FLINT HEALTH COALITION	12,915	-
U.S. Dept of Health and Human Services	Pass-through	93.137	MSU PD 49473	GREATER FLINT HEALTH COALITION	66,815	-
U.S. Dept of Health and Human Services	Pass-through	93.243	IP 531634	CITY OF FLINT	38,617	-
U.S. Dept of Health and Human Services	Pass-through	93.243	0000002558	UNIVERSITY OF WISCONSIN MADISON	334	-
U.S. Dept of Health and Human Services	Pass-through	93.243	IP00531634	CITY OF FLINT	57,456	-
U.S. Dept of Health and Human Services	Pass-through	93.268	E20233891-00-D	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	1,190,947	-
U.S. Dept of Health and Human Services	Pass-through	93.268	COVID-19 - E20224205	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	385,945	-
U.S. Dept of Health and Human Services	Pass-through	93.319	0000002011	UNIVERSITY OF WISCONSIN MADISON	6,013	-
U.S. Dept of Health and Human Services	Pass-through	93.323	RF-1067-9021	SPECTRUM HEALTH SYSTEM	295,926	-
U.S. Dept of Health and Human Services	Pass-through	93.325	IP 538402	CHRISTOPHER & DANA REEVE FOUNDATION	(1)	-
U.S. Dept of Health and Human Services	Pass-through	93.421	IP 572269	ASSOC FOR STATE PUBLIC HEALTH NUTRITIONISTS	34,227	-
U.S. Dept of Health and Human Services	Pass-through	93.421	2022- 070506	NATL ASSOC OF COUNTY & CITY HEALTH OFFICIALS	68,898	-
U.S. Dept of Health and Human Services	Pass-through	93.421	FIG Year 3	ASSOC FOR STATE PUBLIC HEALTH NUTRITIONISTS	62,751	-
U.S. Dept of Health and Human Services	Pass-through	93.556	E20222961-00	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	271,269	-
U.S. Dept of Health and Human Services	Pass-through	93.556	KC-MSU-1	SPAULDING FOR CHILDREN	37,085	-
U.S. Dept of Health and Human Services	Pass-through	93.556	E20232747-00-R	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	638,098	-
U.S. Dept of Health and Human Services	Pass-through	93.648	3-95862	RESEARCH FOUNDATION OF SUNY	159,405	-
U.S. Dept of Health and Human Services	Pass-through	93.648	3-95862	THE RESEARCH FOUNDATION FOR THE STATE UNIV OF NEW YORK	280,296	-
U.S. Dept of Health and Human Services	Pass-through	93.674	MA220000001191	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	78,393	-
U.S. Dept of Health and Human Services	Pass-through	93.738	IP 574581	GREATER FLINT HEALTH COALITION	24,531	-
U.S. Dept of Health and Human Services	Pass-through	93.738	MSU PD 54383	GREATER FLINT HEALTH COALITION	41,887	-
U.S. Dept of Health and Human Services	Pass-through	93.889	E20232988-00-C	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	102,979	-
U.S. Dept of Health and Human Services	Pass-through	93.926	Resolution #18-189	GENESEE COUNTY HEALTH DEPT	5,918	-
U.S. Dept of Health and Human Services	Pass-through	93.926	HRSA-MSU-2020-2005-003	SPECTRUM HEALTH SYSTEM	94,880	-
U.S. Dept of Health and Human Services	Pass-through	93.926		INST FOR POPULATION HEALTH	27,280	-
U.S. Dept of Health and Human Services	Pass-through	93.889	E20222280-00 B	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	27,792	-
U.S. Dept of Health and Human Services	Pass-through	93.991	E20224742-00 - AX	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	13,403	-
U.S. Dept of Health and Human Services	Pass-through	93.991	E20234421-00-AS	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	22,715	-
U.S. Dept of Health and Human Services	Pass-through	93.994	E20222279-00 L	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	2,711	-
U.S. Dept of Health and Human Services	Pass-through	93.994	E20232264-00-M	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	8,273	-
Pass-through Total					4,673,029	-
U.S. Dept of Health and Human Services Total					11,943,571	-
Corporation for National and Community Service	Direct	94.013	19VSNM005	CORP FOR NATIONAL & COMMUNITY SERVICE AMERICORPS	9,873	-
Direct Total					9,873	-
Corporation for National and Community Service	Pass-through	94.006	21-MCSC-MACFF-16	MICHIGAN COMMUNITY SERVICE COMMISSION	73,058	-
Pass-through Total					73,058	-
Corporation for National and Community Service Total					82,931	-
U.S. Dept of Homeland Security	Pass-through	97.036	PA-05-MI-4494-PW-00121(0)	MICHIGAN STATE POLICE	194,702	-
U.S. Dept of Homeland Security Total					194,702	-
U.S. Agency for International Development	Direct	98.001	AID-OAA-A-13-00006	U.S. AGENCY FOR INTL DEVELOPMENT	727,829	-
U.S. Agency for International Development	Direct	98.001	72061521CA00019	U.S. AGENCY FOR INTL DEVELOPMENT	2,756,077	1,098,882
U.S. Agency for International Development	Direct	98.001	72065621CA00007	U.S. AGENCY FOR INTL DEVELOPMENT	345,413	109,892
U.S. Agency for International Development	Direct	98.012	7200AA18CA00021	U.S. AGENCY FOR INTL DEVELOPMENT	269	9,472
Direct Total					3,829,588	1,217,846
U.S. Agency for International Development	Pass-through	98.U01	2023-MSU-001	TETRA TECH INC	3,660	-
U.S. Agency for International Development	Pass-through	98.001	BHEARD	INTL MAIZE & WHEAT IMPROVEMENT CENTER	(62,327)	-
U.S. Agency for International Development	Pass-through	98.001	BHEARD	INTL MAIZE & WHEAT IMPROVEMENT CENTER	(1)	-
U.S. Agency for International Development	Pass-through	98.001	BHEARD	INTL MAIZE & WHEAT IMPROVEMENT CENTER	39,539	176,000
U.S. Agency for International Development	Pass-through	98.001	BHEARD	INTL MAIZE & WHEAT IMPROVEMENT CENTER	13,370	100,122
U.S. Agency for International Development	Pass-through	98.001	BHEARD	INTL MAIZE & WHEAT IMPROVEMENT CENTER	41,154	-
U.S. Agency for International Development	Pass-through	98.001	BHEARD	INTL MAIZE & WHEAT IMPROVEMENT CENTER	24,430	(18,410)
U.S. Agency for International Development	Pass-through	98.001	BHEARD	INTL MAIZE & WHEAT IMPROVEMENT CENTER	15,850	27,118
U.S. Agency for International Development	Pass-through	98.001	BHEARD	INTL MAIZE & WHEAT IMPROVEMENT CENTER	398,325	165,689
U.S. Agency for International Development	Pass-through	98.001	IP 00492952	AFRICAN AGRICULTURAL TECHNOLOGY FOUNDATION	110,757	-
Pass-through Total					584,757	450,519
U.S. Agency for International Development Total					4,414,345	1,668,365
OTHER FEDERAL AWARDS TOTAL					50,027,730	4,105,996
TOTAL FEDERAL EXPENDITURES					\$ 918,127,226	\$ 44,012,791

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Federal Agency	Direct/Pass-through	ALN (Note 4)	Award Number	Grantor	Federal Expenditures	Subrecipient Payments
SUMMARY OF EXPENDITURES BY FEDERAL AGENCY						
U.S. Dept of Energy					\$ 150,860,142	\$ 3,075,165
U.S. Dept of Health and Human Services					133,464,537	19,628,391
National Science Foundation					64,814,359	4,681,976
U.S. Dept of Agriculture					60,628,995	6,291,371
U.S. Dept of Education					59,903,448	600,761
U.S. Agency for International Development					19,888,795	6,434,780
U.S. Dept of Defense					15,422,439	1,420,066
U.S. Dept of Justice					5,538,524	486,826
U.S. Dept of Interior					4,851,614	117,200
National Aeronautics and Space Administration					4,322,291	344,559
U.S. Dept of Commerce					3,718,599	22,374
Office of the Director of National Intelligence					3,275,537	228,517
U.S. Dept of Transportation					3,162,519	235,408
U.S. Dept of State					1,772,064	85,916
Environmental Protection Agency					1,579,702	318,003
National Endowment for the Arts and Humanities					875,570	-
U.S. Dept of Homeland Security					795,086	41,478
U.S. Dept of Housing and Urban Development					338,810	-
U.S. Dept of Treasury					229,993	-
U.S. Dept of Labor					115,461	-
Corporation for National and Community Service					82,931	-
Smithsonian Institution					76,846	-
U.S. Dept of Veterans Affairs					63,175	-
Vietnam Education Foundation					1,350	-
					<u>535,582,787</u>	<u>44,012,791</u>
SUMMARY OF LOAN BALANCES BY FEDERAL AGENCY						
U.S Dept of Education					367,518,282	-
U.S. Dept of Health and Human Services					<u>15,026,156</u>	-
					<u>382,544,438</u>	-
TOTAL FEDERAL EXPENDITURES					\$ 918,127,225	\$ 44,012,791

Notes to Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Note 1 - Basis of Presentation

The accompanying schedule of expenditures of federal awards (the "Schedule") includes the federal grant activity of Michigan State University (the "University") under programs of the federal government for the year ended June 30, 2023. The information in the Schedule is presented in accordance with the requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (the "Uniform Guidance"). Because the Schedule presents only a selected portion of the operations of the University, it is not intended to and does not present the financial position, changes in net position, or cash flows of the University.

Note 2 - Summary of Significant Accounting Policies

Expenditures reported in the Schedule are reported on an accrual basis of accounting. Such expenditures are recognized following the cost principles contained in Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*, wherein certain types of expenditures are not allowable or are limited as to reimbursement. Negative amounts shown on the Schedule represent adjustments or credits made in the normal course of business to amounts reported as expenditures in prior years. The pass-through entity identifying numbers are presented where available.

The University has elected not to use the 10 percent *de minimis* indirect cost rate to recover indirect costs, as allowed under the Uniform Guidance.

Included as federal expenditures are indirect costs of \$115,387,322, which are based on the approved university rate agreement negotiated with the cognizant agency. The negotiated rate is effective from July 1, 2019 through June 30, 2023. The University has negotiated a new facilities and administrative rate agreement, which goes into effect from July 1, 2023 through June 30, 2027.

Note 3 - Commingled Funds

Certain miscellaneous pass-through funds consist of commingled funds from federal and nonfederal sources. The commingled component cannot be separated to specify the individual funding sources; therefore, the total amount is included in the schedule of expenditures of federal awards.

Note 4 - Assistance Listing Numbers (ALN)

All programs with identifiable ALNs have been listed separately. Award numbers have been provided for all programs for which ALNs were not available. Programs without an identifiable ALN are identified by agency number only. If the agency number is not known, the program is listed using an agency number of 99.

Notes to Schedule of Expenditures of Federal Awards

Year Ended June 30, 2023

Note 5 - Loan Balances

As part of the Student Financial Assistance Cluster, the University participates in the Federal Perkins Loan Program through the U.S. Department of Education, the Health Professional Student Loan Program, and the Nurse Faculty Loan Program, all through the U.S. Department of Health and Human Services. These loan programs are directly administered by the University and are considered revolving loan programs where collections received on past loans, including interest, and new funds received from federal agencies with university matching requirements are loaned out to current students. The loans disbursed during the year and year-end outstanding balances for these loans are disclosed below:

Assistance Listing Number	Loan Program	Loans Issued (Reversed)	Loan Balances
84.038	Federal Perkins Loans	\$ -	\$ 6,568,983
93.264	Nurse Facility Loans	19,057	335,414
93.342	Health Professional Student Loans	517,500	12,080,571
93.364	Nursing Student Loans	(15,798)	14,575
		<u>\$ 520,759</u>	<u>\$ 18,999,543</u>

The Federal Perkins Loan Program expired on September 30, 2017, which ended the issuance of new loans under this program and disallowed any new disbursements after June 30, 2018. The University continues to service outstanding loans in accordance with program specifications, as permitted by the federal government.

The University participates in the Federal Direct Student Loan Program (FDLs). A total of \$358,728,383 of the amount presented in the schedule of expenditures of federal awards represents the value of the new FDLs accepted by students during the year ended June 30, 2023.

The University participated in the discontinued U.S. Department of Education Federal Family Education Loan Program and continues to hold and service loans with a total outstanding balance of \$457,533 at June 30, 2023.

Note 6 - Federal Work-Study Program Adjustments and Transfers

During the year ended June 30, 2023, Federal Work-Study Program funds were transferred in accordance with federal guidelines. The transfers were as follows:

Transferred from	Amount	Transferred to
Federal Work-Study 2022-2023	\$ 1,366,357	Federal Supplemental Educational Opportunity Grant 2022-2023
Federal Work-Study 2021-2022	198,225	Federal Work-Study 2022-2023
Federal Work-Study 2022-2023	47,714	Federal Work-Study 2023-2024
Total	<u>\$ 1,612,296</u>	

Schedule of Findings and Questioned Costs

Schedule of Findings and Questioned Costs

Year Ended June 30, 2023

Section I - Summary of Auditor's Results

Financial Statements

Type of auditor's report issued: Unmodified

Internal control over financial reporting:

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

Noncompliance material to financial statements noted? _____ Yes X None reported

Federal Awards

Internal control over major programs:

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

Any audit findings disclosed that are required to be reported in accordance with Section 2 CFR 200.516(a)? X Yes _____ No

Identification of major programs:

Assistance Listing Number	Name of Federal Program or Cluster	Opinion
Various	Student Financial Assistance Cluster	Unmodified
84.032	Federal Family Education Loan Program - Lenders	Unmodified
Various	Research and Development Cluster	Unmodified
93.197	Flint Lead Exposure Registry	Unmodified

Dollar threshold used to distinguish between type A and type B programs: \$3,000,000

Auditee qualified as low-risk auditee? _____ Yes X No

Section II - Financial Statement Audit Findings

Reference Number	Finding
Current Year	None

Schedule of Findings and Questioned Costs (Continued)

Year Ended June 30, 2023

Section III - Federal Program Audit Findings

Reference Number	Finding	Questioned Costs
2023-001	<p>Assistance Listing Number, Federal Agency, and Program Name - Student Financial Assistance Cluster - Federal Direct Student Loan Program ALN 84.268 and Federal Pell Grants ALN 84.063</p> <p>Federal Award Identification Number and Year - Various</p> <p>Pass-through Entity - None</p> <p>Finding Type - Material weakness and material noncompliance with laws and regulations</p> <p>Repeat Finding - Yes</p> <p>2022-001</p> <p>Criteria - Changes in a student's status are required to be reported to the National Student Loan Data System (NSLDS) within 30 days of the change or included in a student status confirmation report sent to the NSLDS within 60 days of the status change (Pell, 34 CFR Section 690.83(b); Direct Loan, 34 CFR Section 685.309(b)).</p> <p>Condition - The University did not report the status changes of certain students to the NSLDS in an accurate and timely manner during the fiscal year.</p> <p>Questioned Costs - None</p> <p>Identification of How Questioned Costs Were Computed - N/A</p> <p>Context - There were three errors identified that were attributed to this finding:</p> <ol style="list-style-type: none"> 1) Of the 60 students tested, there were 5 students who withdrew/graduated whose status changes were not reported to the NSLDS within 60 days. 2) Of the 60 students tested, there were 7 students who withdrew/graduated whose status changes were not reported to the NSLDS. 3) Of the 60 students tested, there was 1 student who withdrew whose status change was not reported accurately to the NSLDS. The student withdrew and was reported with an incorrect effective date. <p>Cause and Effect - The University did not have a control in place to ensure all enrollment changes are reported timely and accurately to the NSLDS. As a result, certain student status changes were not reported to the NSLDS in a timely and accurate manner.</p> <p>Recommendation - The University should implement controls to ensure student status changes are reported accurately and timely to the NSLDS. These controls should include a thorough review of the enrollment rosters prior to reporting to the NSLDS.</p>	None

Schedule of Findings and Questioned Costs (Continued)

Year Ended June 30, 2023

Section III - Federal Program Audit Findings (Continued)

Reference Number	Finding	Questioned Costs
2023-001 (Continued)	Views of Responsible Officials and Corrective Action Plan - Management agrees with the finding. The University is submitting the data to the NSLDS via the clearinghouse in the required time frame. Certain status changes took place after the standard reporting cycle and were not picked up in this process. New processes have been established to identify and report these status changes to the NSLDS that take place after the standard reporting cycle.	

Schedule of Findings and Questioned Costs (Continued)

Year Ended June 30, 2023

Section III - Federal Program Audit Findings (Continued)

Reference Number	Finding	Questioned Costs
2023-002	<p>Assistance Listing Number, Federal Agency, and Program Name - Student Financial Assistance Cluster Federal Direct Student Loan Program ALN 84.268, Federal Pell Grants ALN 84.063, and Federal Supplemental Education Opportunity Grant ALN 84.007</p> <p>Federal Award Identification Number and Year - Various</p> <p>Pass-through Entity - None</p> <p>Finding Type - Material weakness and material noncompliance with laws and regulations</p> <p>Repeat Finding - Yes</p> <p>2022-003</p> <p>Criteria - If a recipient of Title IV grant or loan funds withdraws from a school after beginning attendance but before he or she has attended 60 percent of the scheduled length of the semester, the school must perform a return of Title IV funds (R2T4) calculation. If the amount disbursed to the student is greater than the amount the student earned, the unearned funds must be returned. A school must return unearned funds for which it is responsible no later than 45 days from the determination of a student's withdrawal (30 days if never attended) (34 CFR 668.22(j)(1)).</p> <p>When a recipient of Title IV grant or loan assistance withdraws from an institution during a payment period or period of enrollment in which the recipient began attendance, the institution must determine the amount of Title IV aid earned by the student as of the student's withdrawal date.</p> <p>If an institution does not require instructors to take attendance, the withdrawal date is (1) the date, as determined by the institution, that the student began the withdrawal process prescribed by the institution; (2) the date, as determined by the institution, that the student otherwise provided official notification to the institution, in writing or orally, of his or her intent to withdraw; (3) if the student ceases attendance without providing official notification to the institution of his or her withdrawal, the midpoint of the payment period or, if applicable, the period of enrollment; (4) if the institution determines that a student did not begin the withdrawal process or otherwise notify the institution of the intent to withdraw due to illness, accident, grievous personal loss, or other circumstances beyond the student's control, the date the institution determines is related to that circumstance; (5) if a student does not return from an approved leave of absence, the date that the institution determines the student began the leave of absence; or (6) if the student takes an unapproved leave of absence, the date that the student began the leave of absence. Notwithstanding the above, an institution that is not required to take attendance may use as the withdrawal date the last date of attendance at an academically related activity, as documented by the institution (34 CFR668.22(c) and (l)).</p>	\$(1,446)

Schedule of Findings and Questioned Costs (Continued)

Year Ended June 30, 2023

Section III - Federal Program Audit Findings (Continued)

Reference Number	Finding	Questioned Costs
2023-002 (Continued)	<p>Condition - The University used inaccurate or incomplete data in the return of Title IV calculations.</p> <p>Questioned Costs - \$(1,446)</p> <p>Identification of How Questioned Costs Were Computed - Recalculation of returns was based on accurate student data.</p> <p>Context - There were three errors that were attributed to this finding:</p> <ol style="list-style-type: none"> 1) Of the 60 students tested, there were 3 students identified where the University had returned the funds untimely (45 days if student attended, 30 days if never attended) 2) Of the 60 students tested, there were 5 students identified where the University completed the R2T4 calculation but the calculation was not completed accurately, resulting in a net of \$(1,446) in questioned costs. 3) Of the 60 students tested, noted inconsistency in process in determining if there was an academically related activity that would better reflect the withdrawal date used in the return to Title IV calculation. <p>Cause and Effect - The University did not have a control in place to ensure all returns of Title IV refunds are initiated timely and accurately. As a result, certain student Title IV refund calculations were not completed in a timely and accurate manner.</p> <p>Recommendation - The University should implement controls to ensure returns of Title IV refunds are initiated timely and accurately.</p> <p>Views of Responsible Officials and Planned Corrective Actions - Management agrees with the finding. The failure to return funds in a timely fashion is primarily a result of university withdrawal policy not aligning with the timelines required by the regulations. To that end, the University is revising its policies and procedures, specifically as they relate to medical withdrawals and for programs where attendance is required.</p> <p>As of June 2023, the University now has reports that identify all the affected students in a timely fashion. Additional resources have been allocated to assure that there is consistency and timeliness in the review of enrollment data specifically as it relates to determining attendance in dropped courses and students who rescind their intent to withdraw or enroll in or attend subsequent modules.</p>	

Schedule of Findings and Questioned Costs (Continued)

Year Ended June 30, 2023

Section III - Federal Program Audit Findings (Continued)

Reference Number	Finding	Questioned Costs
2023-003	<p>Assistance Listing Number, Federal Agency, and Program Name - Student Financial Assistance Cluster - Federal Direct Student Loan Program ALN 84.268</p> <p>Federal Award Identification Number and Year - Various</p> <p>Pass-through Entity - None</p> <p>Finding Type - Material weakness and material noncompliance with laws and regulations</p> <p>Repeat Finding - Yes</p> <p>2022-004</p> <p>Criteria - Before an institution disburses Title IV, HEA program funds for any award year, the institution must notify a student of the amount of funds that the student or his or her parent can expect to receive under each Title IV, HEA program and how and when those funds will be disbursed. If those funds include Direct Loan Program funds, the notice must indicate which funds are from subsidized loans, which are from unsubsidized loans, and which are from PLUS loans.</p> <p>Except in the case of a post-withdrawal disbursement made in accordance with Sec. 668.22(a)(5), if an institution credits a student's account at the institution with Federal Direct Loans, the institution must notify the student or parent of the following:</p> <ul style="list-style-type: none"> (i) The anticipated date and amount of the disbursement (ii) The student's or parent's right to cancel all or a portion of that loan or loan disbursement and have the loan proceeds returned to the secretary (iii) The procedures and the time by which the student or parent must notify the institution that he or she wishes to cancel the loan or loan disbursement <p>Condition - The notifications related to the direct loan borrowers did not include information on the right to cancel or instructions on how to cancel the loans.</p> <p>Questioned Costs - None</p> <p>Identification of How Questioned Costs Were Computed - N/A</p> <p>Context - Of the 50 students tested for eligibility with Federal Direct Loans, the disbursement notification sent to the student and/or parent did not include information on the right to cancel or instructions on how to cancel for 20 students/parents.</p> <p>Cause and Effect - The University did not have a control in place to ensure information on the right to cancel or instructions on how to cancel Federal Direct Loans included in the borrower notifications. As a result, borrowers may not have been aware of their right to cancel and how to cancel their Federal Direct Loans.</p>	None

Schedule of Findings and Questioned Costs (Continued)

Year Ended June 30, 2023

Section III - Federal Program Audit Findings (Continued)

Reference Number	Finding	Questioned Costs
2023-003 (Continued)	<p>Recommendation - The University should implement controls to ensure information on the right to cancel or instructions on how to cancel Federal Direct Loans are properly included in the borrower notifications.</p> <p>Views of Responsible Officials and Planned Corrective Actions - Management agrees with the finding. Missing notifications to students were a result of a coding error in the automated process that was resolved on September 5, 2023. Notifications to parents did not begin until summer 2023, with an automated procedure being implemented in the fall 2023 semester.</p>	