

## Michigan State University

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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 basic financial statements of Michigan State University (the "University") and its discretely presented component unit as of and for the year ended June 30, 2019 and the related notes to the financial statements, which collectively comprise the University's basic financial statements. We issued our report thereon dated October 24, 2019, which contained an unmodified opinion on the financial statements and its component unit. 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 24, 2019. We did not audit the financial statements of Michigan State University Foundation (the "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 the 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 financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the financial statements as a whole.

Plante & Moran, PLLC

January 17, 2020







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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 financial statements of Michigan State University (the "University") as of and for the year ended June 30, 2019 and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated October 24, 2019. Our report includes a reference to other auditors who audited the financial statements of Michigan State University Foundation (the "Foundation"), as described in our report on Michigan State University's financial statements. This report does not include the results of the other auditors' testing of internal control over financial reporting or compliance and other matters that are reported on separately by those auditors. The financial statements of the Foundation were not audited in accordance with *Government Auditing Standards*.

#### **Internal Control Over Financial Reporting**

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

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the 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 may exist that have not been identified.

#### **Compliance and Other Matters**

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



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 24, 2019



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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

We have audited Michigan State University's (the "University") compliance with the types of compliance requirements described in the U.S. 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, 2019. 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.

Michigan State University's basic financial statements include the operations of Michigan State University Foundation (the "Foundation"). Our audit, described below, did not include the operations of the Foundation because the Foundation did not expend any federal awards during the year ended June 30, 2019.

#### Management's Responsibility

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

#### Auditor's Responsibility

Our responsibility is to express an opinion on compliance for each of the University's major federal programs based on our audit of the types of compliance requirements referred to above.

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

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

#### Opinion on Each Major Federal Program

In our opinion, the University complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of the major federal programs for the year ended June 30, 2019.



To the Board of Trustees Michigan State University

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

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

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

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

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

Plante & Moran, PLLC

January 17, 2020

### Schedule of Expenditures of Federal Awards

Year Ended June 30, 2019

					Year Ended June 30, 2	
Federal Agency	Direct/ Pass-through	CFDA (Note 5)	Award Number	Grantor Name	Total Expenditures	Subaward Payments
Research and Development Cluster:	T doo unough	(11010 0)	/ Wala Hallibo	Oranio Hano	Exportanato	- aymonto
Agriculture	Direct	10	16-JV-11242305-055	USDA - FOREST SERVICE	\$ 75,482	\$ -
Agriculture	Direct	10	16-TMMSD-MI-0005	USDA - AGRI MARKETING SERV US DEPT AGR	400	-
Agriculture	Direct	10	17-CS-11090400-057	USDA - US DEPT AGRICULTURE	63,714	-
Agriculture Agriculture	Direct Direct	10 10	18-PA-11091000-025 1920-152-0103-A4	USDA - US DEPT AGRICULTURE USDA - AGRI RESEARCH SERV US DEPT	67,251 52,073	-
Agriculture	Direct	10	19-NOPXX-MI-0002	USDA - AGRI MARKETING SERV US DEPT AGR	6,814	-
Agriculture	Direct	10.001	14-PA-11091000-020	USDA - FOREST SERVICE	33,157	-
Agriculture	Direct Direct	10.001 10.001	58-3607-3-985 58-3655-4-042	USDA - AGRI RESEARCH SERV US DEPT USDA - AGRI RESEARCH SERV US DEPT	7,155 426	-
Agriculture Agriculture	Direct	10.001	58-3655-4-042 58-3655-4-044	USDA - AGRI RESEARCH SERV US DEPT USDA - AGRI RESEARCH SERV US DEPT	426 478	-
Agriculture	Direct	10.001	58-5012-7-023	USDA - AGRI RESEARCH SERV US DEPT	(111)	-
Agriculture	Direct	10.001	58-5012-8-009	USDA - AGRI RESEARCH SERV US DEPT	1,634	-
Agriculture	Direct	10.001	58-5050-7-005	USDA - AGRI RESEARCH SERV US DEPT	9,426	-
Agriculture	Direct Direct	10.001 10.001	58-5050-7-006 58-5080-5-009	USDA - AGRI RESEARCH SERV US DEPT USDA - AGRI RESEARCH SERV US DEPT	9,346 46,272	-
Agriculture Agriculture	Direct	10.001	58-5442-4-016	USDA - AGRI RESEARCH SERV US DEPT	9,716	
Agriculture	Direct	10.001	58-5442-4-017	USDA - AGRI RESEARCH SERV US DEPT	38,617	-
Agriculture	Direct	10.001	58-6040-7-025	USDA - AGRI RESEARCH SERV US DEPT	2,507	-
Agriculture	Direct	10.001	58-6040-8-012	USDA - AGRI RESEARCH SERV US DEPT	5,053	-
Agriculture Agriculture	Direct Direct	10.001 10.001	58-6040-8-013 58-6040-8-027	USDA - AGRI RESEARCH SERV US DEPT USDA - AGRI RESEARCH SERV US DEPT	4,375 24,334	-
Agriculture	Direct	10.001	58-6040-8-028	USDA - AGRI RESEARCH SERV US DEPT	8,689	-
Agriculture	Direct	10.001	58-8010-5-020	USDA - AGRI RESEARCH SERV US DEPT	20,469	-
Agriculture	Direct	10.001	58-8030-6-004	USDA - AGRI RESEARCH SERV US DEPT	5,297	-
Agriculture	Direct	10.001	58-8060-6-009	USDA - AGRI RESEARCH SERV US DEPT	7,319	-
Agriculture	Direct Direct	10.001 10.001	58-8062-5-036 59-0206-4-001	USDA - AGRI RESEARCH SERV US DEPT USDA - AGRI RESEARCH SERV US DEPT	22,869 45,195	-
Agriculture Agriculture	Direct	10.001	59-0206-4-001 59-0206-4-008	USDA - AGRI RESEARCH SERV US DEPT USDA - AGRI RESEARCH SERV US DEPT	(28,866)	-
Agriculture	Direct	10.001	59-0206-6-003	USDA - AGRI RESEARCH SERV US DEPT	125,797	-
Agriculture	Direct	10.001	59-0206-6-004	USDA - AGRI RESEARCH SERV US DEPT	33,468	-
Agriculture	Direct	10.001	59-0206-6-004	USDA - AGRI RESEARCH SERV US DEPT	33,445	-
Agriculture	Direct Direct	10.001 10.001	59-0206-8-189 59-5050-7-001	USDA - AGRI RESEARCH SERV US DEPT USDA - AGRI RESEARCH SERV US DEPT	3,942	-
Agriculture Agriculture	Direct	10.001	59-5090-5-004	USDA - AGRI RESEARCH SERV US DEPT	22,383 6,001	
Agriculture	Direct	10.001	ARS-58-5050-8-002	USDA - AGRI RESEARCH SERV US DEPT	16,000	-
Agriculture	Direct	10.001	S 58-3042-8-012	USDA - AGRI RESEARCH SERV US DEPT	3,695	-
Agriculture	Direct	10.001	S 58-8030-8-007	USDA - AGRI RESEARCH SERV US DEPT	17,455	-
Agriculture	Direct	10.001	S 58-8042-8-075	USDA - AGRI RESEARCH SERV US DEPT	16,831	-
Agriculture Agriculture	Direct Direct	10.001 10.001	S 58-8062-8-014 S-58-3060-8-022	USDA - AGRI RESEARCH SERV US DEPT USDA - AGRI RESEARCH SERV US DEPT	121,625 45,943	
Agriculture	Direct	10.001	S-58-5050-8-004	USDA - AGRI RESEARCH SERV US DEPT	137,845	-
Agriculture	Direct	10.001	S-58-5050-8-005	USDA - AGRI RESEARCH SERV US DEPT	68,901	-
Agriculture	Direct	10.001	S-58-5050-8-007	USDA - AGRI RESEARCH SERV US DEPT	60,312	-
Agriculture	Direct	10.001	S-58-5050-8-008	USDA - AGRI RESEARCH SERV US DEPT	49,483	-
Agriculture	Direct Direct	10.001 10.001	S-58-5082-8-023 S-58-6040-8-019	USDA - AGRI RESEARCH SERV US DEPT USDA - AGRI RESEARCH SERV US DEPT	5,244 42,675	-
Agriculture Agriculture	Direct	10.001	S-58-6040-8-032	USDA - AGRI RESEARCH SERV US DEPT	42,675 8,774	
Agriculture	Direct	10.001	S-59-0206-8-215	USDA - AGRI RESEARCH SERV US DEPT	74,702	-
Agriculture	Direct	10.001	S-59-2034-8-002	USDA - AGRI RESEARCH SERV US DEPT	33,793	-
Agriculture	Direct	10.025	16-8130-0666-CA	USDA - ANIMAL AND PLT HTL INSP SER	3,036	-
Agriculture	Direct	10.025	AP17PPQS&T00C017	USDA - ANIMAL AND PLT HTL INSP SER	37,371	-
Agriculture Agriculture	Direct Direct	10.025 10.025	AP17PPQS&T00C173 AP18PPQF0000C442	USDA - ANIMAL AND PLT HTL INSP SER USDA - ANIMAL AND PLT HTL INSP SER	22,061 56,438	-
Agriculture	Direct	10.025	AP18PPQS&T00C026	USDA - ANIMAL AND PLT HTL INSP SER	16,731	-
Agriculture	Direct	10.025	AP18PPQS&T00C030	USDA - ANIMAL AND PLT HTL INSP SER	40,716	-
Agriculture	Direct	10.025	AP18PPQS&T00C033	USDA - ANIMAL AND PLT HTL INSP SER	123,877	-
Agriculture	Direct	10.025	AP18PPQS&T00C206	USDA - ANIMAL AND PLT HTL INSP SER	39,667	-
Agriculture Agriculture	Direct Direct	10.025 10.156	APHIS 16FSMIPMI0007	USDA - ANIMAL AND PLT HTL INSP SER FED-STATE MARKETING IMPROVEMENT PROG	2,340 72,852	-
Agriculture	Direct	10.156	AM180100XXXXG151	USDA - AGRI MARKETING SERV US DEPT AGR	43,261	
Agriculture	Direct	10.156	AM180100XXXXG154	USDA - AGRI MARKETING SERV US DEPT AGR	43,325	-
Agriculture	Direct	10.164	17-TMMSD-MI-0001	USDA - AGRI MARKETING SERV US DEPT AGR	1,426	-
Agriculture	Direct	10.200	2015-34383-23852	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	34,991	
Agriculture	Direct Direct	10.200 10.200	2016-34141-25707 2016-70007-25756	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	866,119 45,191	682,156
Agriculture Agriculture	Direct	10.200	2017-34383-27028	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	1,839,454	
Agriculture	Direct	10.202	32100-06026 MCINTIRE-STENNIS	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	57,129	-
Agriculture	Direct	10.202	32100-06026 MCINTIRE-STENNIS	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	55,656	-
Agriculture	Direct	10.202	32100-06026 MCINTIRE-STENNIS	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	35,328	-
Agriculture	Direct	10.202	32100-06026 MCINTIRE-STENNIS	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	32,727	-
Agriculture	Direct Direct	10.202 10.202	32100-06026 MCINTIRE-STENNIS 32100-06026 MCINTIRE-STENNIS	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	32,496 30,000	-
Agriculture Agriculture	Direct	10.202	32100-06026 MCINTIRE-STENNIS	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	28,756	
Agriculture	Direct	10.202	32100-06026 MCINTIRE-STENNIS	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	17,850	-
Agriculture	Direct	10.202	32100-06026 MCINTIRE-STENNIS	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	13,662	-
Agriculture	Direct	10.202	32100-06026 MCINTIRE-STENNIS	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	10,917	-
Agriculture	Direct	10.202	32100-06026 MCINTIRE-STENNIS	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	10,363	-
Agriculture Agriculture	Direct Direct	10.202 10.203	32100-06026 MCINTIRE-STENNIS 31100-60263 HATCH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	1,734 977,196	-
Agriculture	Direct	10.203	31100-60263 HATCH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	921,423	-
Agriculture	Direct	10.203	31100-60263 HATCH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	891,518	-
Agriculture	Direct	10.203	31100-60263 HATCH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	765,200	-
Agriculture	Direct	10.203	31100-60263 HATCH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	397,334	-
Agriculture	Direct	10.203	31100-60263 HATCH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	334,122	-
Agriculture Agriculture	Direct Direct	10.203 10.203	31100-60263 HATCH 31100-60263 HATCH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	277,495 199,784	-
Agriculture	Direct	10.203	31100-60263 HATCH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	168,639	-
Agriculture	Direct	10.203	31100-60263 HATCH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	56,256	-
Agriculture	Direct	10.203	31100-60263 HATCH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	43,848	-
Agriculture	Direct	10.203	31100-60263 HATCH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	29,266	-
Agriculture Agriculture	Direct Direct	10.203 10.203	31200-06026 HATCH MULTISTATE 31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	261,837 168,244	-
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	121,757	-
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	67,536	-
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	56,501	-

					rear Ended Julie 30, 2019		
Follow I America	Direct/	CFDA	Accord November	0	Total	Subaward	
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments	
Research and Development Cluster							
(continued): Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	\$ 42,639	\$ -	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	39,681		
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	36,846	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	33,888	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE 31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	33,150	-	
Agriculture Agriculture	Direct Direct	10.203 10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	25,794 24,300	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	24,221	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	23,507	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	23,440	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	21,988	-	
Agriculture Agriculture	Direct Direct	10.203 10.203	31200-06026 HATCH MULTISTATE 31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	21,528 20,704	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	19,214	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	18,754	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	18,570	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	18,260	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	17,669	-	
Agriculture	Direct Direct	10.203 10.203	31200-06026 HATCH MULTISTATE 31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	17,186 15,161	-	
Agriculture Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	14,818		
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	13,670	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	12,868	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	11,847	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	11,762	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	10,457	-	
Agriculture Agriculture	Direct Direct	10.203 10.203	31200-06026 HATCH MULTISTATE 31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE  USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	9,586 7,994	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	5,931		
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	4,895		
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	4,413	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	3,662	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	3,204	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	2,007	-	
Agriculture Agriculture	Direct Direct	10.203 10.203	31200-06026 HATCH MULTISTATE 31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	942 798	-	
Agriculture	Direct	10.203	31200-06026 HATCH MULTISTATE	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	(80)	-	
Agriculture	Direct	10.207	36100-06026 ANIMAL HEALTH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	56,561	-	
Agriculture	Direct	10.207	36100-06026 ANIMAL HEALTH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	16,193	-	
Agriculture	Direct	10.207	36100-06026 ANIMAL HEALTH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	14,313	-	
Agriculture	Direct	10.207	36100-06026 ANIMAL HEALTH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	13,243	-	
Agriculture	Direct	10.207	36100-06026 ANIMAL HEALTH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	12,995	-	
Agriculture Agriculture	Direct Direct	10.207 10.207	36100-06026 ANIMAL HEALTH 36100-06026 ANIMAL HEALTH	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	7,888 5,529	-	
Agriculture	Direct	10.219	2013-33522-21090	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	14,307	-	
Agriculture	Direct	10.219	2013-33522-21090	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	84	-	
Agriculture	Direct	10.219	2018-33522-28736	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	71,771	-	
Agriculture	Direct	10.250	59-6000-6-0067	USDA - US DEPT AGRICULTURE	99,623	-	
Agriculture	Direct	10.303	2015-51150-23876	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	2,645	-	
Agriculture Agriculture	Direct Direct	10.303 10.303	2016-51150-25528 2017-51150-27128	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	84,556 247,371	68,852	
Agriculture	Direct	10.303	2017-31130-27128	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	84,495	3,167	
Agriculture	Direct	10.303	2018-51106-28779	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	80,483	-	
Agriculture	Direct	10.303	2018-51150-28698	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	64,796	30,206	
Agriculture	Direct	10.304	2016-37620-25765	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	488,122	390,508	
Agriculture	Direct	10.307	2016-51300-25732	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	129,956	32,559	
Agriculture	Direct Direct	10.307 10.307	2016-51300-25732 2016-51300-25732	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	120,610 46,372	-	
Agriculture Agriculture	Direct	10.307	59-5050-9-001	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	60,078	-	
Agriculture	Direct	10.309	2014-51181-22378	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	2,260,904	1,399,789	
Agriculture	Direct	10.309	2014-51181-22380	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	489,042	275,841	
Agriculture	Direct	10.309	2015-51181-24285	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	1,599,299	1,448,975	
Agriculture	Direct	10.309	2015-51181-24285	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	98,917	-	
Agriculture	Direct Direct	10.309 10.309	2015-51181-24285 2016-51181-25411	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	37,363 487,893	60,755	
Agriculture Agriculture	Direct	10.309	2017-51181-26828	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	511,760	331,844	
Agriculture	Direct	10.309	2017-51181-26828	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	123,896	-	
Agriculture	Direct	10.309	2017-51181-26828	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	26,124	-	
Agriculture	Direct	10.309	2017-51181-26828	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	7,712	-	
Agriculture	Direct	10.309	2018-51181-28377	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	29,495		
Agriculture	Direct Direct	10.310 10.310	2011-68004-30340 2013-67015-20962	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	(1,065)	(1,065)	
Agriculture Agriculture	Direct	10.310	2013-68004-20371	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	30,845 186,982	-	
Agriculture	Direct	10.310	2013-68004-20439	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	369,593	152,129	
Agriculture	Direct	10.310	2014-67009-22310	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	323,886	196,820	
Agriculture	Direct	10.310	2014-67015-21619	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	87,618	-	
Agriculture	Direct	10.310	2014-67015-21632	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	167,113	-	
Agriculture	Direct	10.310	2014-67015-21832	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	104,308	26,555	
Agriculture Agriculture	Direct Direct	10.310 10.310	2014-68004-21881 2014-68004-21952	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	265,368 168,206	-	
Agriculture	Direct	10.310	2014-68004-21972	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	111,313	-	
Agriculture	Direct	10.310	2014-68006-21828	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	69,739	-	
Agriculture	Direct	10.310	2014-68006-21863	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	54,178	17,310	
Agriculture	Direct	10.310	2014-68006-21869	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	27,722	-	
Agriculture	Direct	10.310	2014-68006-21870	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	59,916	-	
Agriculture	Direct	10.310	2014-68006-21870	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	18,680	-	
Agriculture Agriculture	Direct Direct	10.310 10.310	2015-67013-23068 2015-67019-23007	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	34,358 77,934	36,737	
Agriculture Agriculture	Direct	10.310	2015-67019-23007	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE  USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	77,934 1,448	30,/3/	
Agriculture	Direct	10.310	2015-68001-23239	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	878,041	470,835	
Agriculture	Direct	10.310	2015-68003-23415	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	761,746	462,574	
Agriculture	Direct	10.310	2015-68007-23133	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	1,145,156	202,427	
Agriculture	Direct	10.310	2016-67015-24891	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	63,172	28,195	
Agriculture	Direct	10.310	2016-67015-24898	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	6,249		
Agriculture	Direct	10.310	2016-67015-28200	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	155,425	20,589	

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	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster						
(continued):						
Agriculture	Direct	10.310	2016-67017-24514	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE		\$ -
Agriculture	Direct	10.310	2016-68004-24931	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	992,622	697,315
Agriculture	Direct	10.310	2016-68004-24931	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	53,184	- 2.522
Agriculture	Direct	10.310	2016-68006-24852	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	105,350	2,523
Agriculture	Direct	10.310 10.310	2017-67007-25947 2017-67007-26176	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	73,564	19,457
Agriculture Agriculture	Direct Direct	10.310	2017-67007-26176	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE  USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	232,264 30,703	136,758
Agriculture	Direct	10.310	2017-67011-26042	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	23,160	•
Agriculture	Direct	10.310	2017-67011-26073	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	23,756	
Agriculture	Direct	10.310	2017-67011-26074	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	35,041	_
Agriculture	Direct	10.310	2017-67013-26257	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	160,723	
Agriculture	Direct	10.310	2017-67015-26084	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	204,720	-
Agriculture	Direct	10.310	2017-67015-26673	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	154,488	_
Agriculture	Direct	10.310	2017-67015-26806	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	118,170	
Agriculture	Direct	10.310	2017-67017-26168	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	178,863	
Agriculture	Direct	10.310	2017-67017-26528	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	138,683	
Agriculture	Direct	10.310	2017-67023-26271	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	27,450	-
Agriculture	Direct	10.310	2017-67023-26395	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	105,442	24,510
Agriculture	Direct	10.310	2017-68004-26323	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	360,129	48,259
Agriculture	Direct	10.310	2018-67003-27406	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	363,062	45,514
Agriculture	Direct	10.310	2018-67013-27404	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	32,181	-
Agriculture	Direct	10.310	2018-67013-27424	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	147,980	-
Agriculture	Direct	10.310	2018-67013-27457	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	91,934	-
Agriculture	Direct	10.310	2018-67013-27592	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	78,022	-
Agriculture	Direct	10.310	2018-67013-28065	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	149,539	-
Agriculture	Direct	10.310	20186701528242	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	62,241	-
Agriculture	Direct	10.310	2018-67015-28288	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	43,415	-
Agriculture	Direct	10.310	2018-67015-28302	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	14,855	-
Agriculture	Direct	10.310	2018-67017-27876 2018-67017-28149	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	57,809	-
Agriculture	Direct	10.310 10.310	2018-67017-28359	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	21	•
Agriculture Agriculture	Direct Direct	10.310	2018-67021-27967	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE  USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	126,269 90,948	-
Agriculture	Direct	10.310	2018-67021-27967	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	3,139	•
Agriculture	Direct	10.310	2018-67030-28150	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	84,411	11,553
Agriculture	Direct	10.310	2018-68003-28151	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	289,345	169,990
Agriculture	Direct	10.310	2018-68008-27887	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	147,341	40,860
Agriculture	Direct	10.310	2019-67012-29524	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	7,921	
Agriculture	Direct	10.310	2019-67012-29536	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	3,732	_
Agriculture	Direct	10.310	2019-67013-29015	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	3,093	
Agriculture	Direct	10.310	2019-67013-29203	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	13,997	-
Agriculture	Direct	10.310	2019-67013-29203	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	528	-
Agriculture	Direct	10.310	2019-67017-29112	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	24,122	-
Agriculture	Direct	10.310	3014-67003-21812	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	125,857	92,717
Agriculture	Direct	10.329	2015-70006-24280	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	165	-
Agriculture	Direct	10.329	2018-70006-28883	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	37,133	-
Agriculture	Direct	10.329	2018-7006-28917	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	93,788	-
Agriculture	Direct	10.330	2018-70005-28738	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	23,864	-
Agriculture	Direct	10.500	2013-48765-21544	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	1,349	-
Agriculture	Direct	10.613	FE-CR-16-005	USDA - FOREIGN AG SERVICE	198,678	-
Agriculture	Direct	10.652	13-JV-11242303-078	USDA - FOREST SERVICE	528	-
Agriculture	Direct	10.652	13-JV-11242306-055	USDA - FOREST SERVICE	2,316	-
Agriculture	Direct	10.652	16-JV-11242306-101	USDA - FOREST SERVICE	1,005	-
Agriculture	Direct Direct	10.674 10.674	15-CA-11420004-084 18-DG-11420004-220	USDA - FOREST SERVICE USDA - FOREST SERVICE	12,630 64,345	-
Agriculture Agriculture	Direct	10.678	15-CS-11083601-002	USDA - FOREST SERVICE	103,118	
Agriculture	Direct	10.678	15-CS-11083601-002	USDA - FOREST SERVICE	11,844	•
Agriculture	Direct	10.678	15-JV-11242303-067	USDA - FOREST SERVICE	11,402	
Agriculture	Direct	10.680	14-CA-11420004-054	USDA - FOREST SERVICE	20,778	
Agriculture	Direct	10.680	14-CA-11420004-201	USDA - FOREST SERVICE	77,100	-
Agriculture	Direct	10.680	14-JV-11242307-114	USDA - FOREST SERVICE	(205)	-
Agriculture	Direct	10.680	15-DG-11420004-222	USDA - FOREST SERVICE	25,924	_
Agriculture	Direct	10.680	16-CA-11420004-072	USDA - FOREST SERVICE	45,650	
Agriculture	Direct	10.680	17-CA-11420004-298	USDA - FOREST SERVICE	30,113	
Agriculture	Direct	10.680	17-CA-11420004-315	USDA - FOREST SERVICE	259,940	-
Agriculture	Direct	10.680	18-CA-11420004-072	USDA - FOREST SERVICE	1,584	-
Agriculture	Direct	10.680	18-CA-11420004-167	USDA - FOREST SERVICE	9,019	-
Agriculture	Direct	10.699	17-JV-11242306-042	USDA - FOREST SERVICE	51,218	-
Agriculture	Direct	10.699	18-CR-11242303-074	USDA - FOREST SERVICE	9,604	-
Agriculture	Direct	10.777	FX18BF-10777R032	USDA - FOREIGN AG SERVICE	20,872	-
Agriculture	Direct	10.902	68-5D21-18-009	USDA - NATURAL RESOURCES CONSERVATION SERVICE	29,332	-
Agriculture	Direct	10.912	NR185D21XXXXG001	USDA - NATURAL RESOURCES CONSERVATION SERVICE	9,919	-
Agriculture	Direct	10.960	FX17TA-10960R003	USDA - FOREIGN AG SERVICE	15,009	-
Agriculture	Direct	10.960	FX18TA-10960R023 PR6732733 STH20017M3441	USDA - US DEPT AGRICULTURE	33,680	-
Agriculture	Direct Direct Tot	10.960	1 NU/32/33 31 NZUU1/M3441	USDA - FOREIGN AG SERVICE	30,249,849	7,627,214
	Direct 101	aı			30,249,849	1,021,214
Agriculture	Pass-through	10	#18-60	POTATOES USA	(6,782)	-
Agriculture	Pass-through		3-20-19 CTPB	CHRISTMAS TREE PROMOTION BOARD	8,907	
Agriculture	Pass-through	10	E17-87	U.S. ENDOWMENT FOR FORESTRY & COMMUNITIES, INC.	62,846	-
Agriculture	Pass-through	10	E18-11	U.S. ENDOWMENT FOR FORESTRY & COMMUNITIES, INC.	45,692	-
Agriculture	Pass-through	10.001	0254-ARS17-MSU	RUTGERS UNIVERSITY	13,672	-
Agriculture	Pass-through	10.001	25-6235-0275-003	NEBRASKA UNIVERSITY OF	2,585	-
Agriculture	Pass-through	10.001	58-3040-8-010	NATIONAL PORK BOARD	14,842	-
Agriculture	Pass-through	10.001	59-2080-8-001	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	96,896	-
Agriculture	Pass-through		59-6070-7-009	UNITED SOYBEAN BOARD	5,508	-
Agriculture	Pass-through	10.025	18000001989	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	48,891	-
Agriculture	Pass-through	10.025	180000002096	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	19,887	-
Agriculture	Pass-through	10.025	18000001933	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	39,988	-
Agriculture	Pass-through	10.025	19000001578	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	22,620	-
Agriculture	Pass-through	10.025	GG 18000001744	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	58,444	-
Agriculture	Pass-through	10.025	GG 190000002171	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	6,724	-
Agriculture	Pass-through	10.025	MDARD-190000002170	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	854	-
Agriculture	Pass-through	10.170	00346324	HOP GROWERS OF MICHIGAN	85,375	-
Aminulaura	Describer 1	10.170	17.05	WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND	F4 000	-
Agriculture	Pass-through	10.1/0	17-05	CONSUMER PROTECTION	51,823	-

	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster (continued):						
Agriculture		10.170	1944-205-2011936	CLEMSON UNIVERSITY	\$ 32,790	\$ -
Agriculture		10.170	2019CPS10	CENTER FOR PRODUCE SAFETY	15,204	-
Agriculture		10.170	791AgDSC1810	MICH CHERRY COMMITTEE	65,750 37	-
Agriculture Agriculture		10.170 10.170	838K935 Apple and Cherry MRL	UNIVERSITY OF WISCONSIN - MADISON MICH STATE HORTICULTURAL SOCIETY	1,066	-
Agriculture		10.170	Asparagus Management	MICH ASPARAGUS RESEARCH COMMITTEE	58,319	_
Agriculture		10.170	CRI-190000000312	CELERY RESEARCH INC	27,969	-
Agriculture	Pass-through	10.170	MAAB GG19000000306	MICH ASPARAGUS ADVISORY BOARD	8,608	-
Agriculture		10.170	MCC 791AgDSC1809	MICH CARROT COMMITTEE	67,294	-
Agriculture		10.170	MCC 791N7700187	MICH CARROT COMMITTEE	(11,290)	-
Agriculture	Pass-through	10.170	MCC GG19000000309	MICH CARROT COMMITTEE	26,304	-
Agriculture Agriculture	Pass-through Pass-through	10.170 10.170	MDARD 18000001655 MDARD 791AgDSC1811	MICHIGAN CARROT INDUSTRY DEVELOPMENT PROGRAM MICH CHRISTMAS TREE ASSN	27,583 37,371	-
Agriculture		10.170	MDARD 791N7700183	MBG MARKETING	2,201	
Agriculture		10.170	MDARD GG 10000000309	MICH CARROT COMMITTEE	14,372	
Agriculture		10.170	MDARD GG 19000000308	MICHIGAN BLUEBERRY COMMISSION	12,543	-
Agriculture		10.170	MDARD GG 190000000323	MICH VEGETABLE COUNCIL	590	-
Agriculture	Pass-through	10.170	Mi Asparagus	MICH ASPARAGUS ADVISORY BOARD	6,892	-
Agriculture		10.170	MSHS GG19000000321	MICH STATE HORTICULTURAL SOCIETY	22,626	-
Agriculture	Pass-through	10.170	MTFC 791AgDSC1814	MICHIGAN TREE FRUIT COMMISSION	77,395	-
Agriculture	Pass-through	10.170	MTFC GG190000000322	MICHIGAN TREE FRUIT COMMISSION	17,661	-
Agriculture	Pass-through	10.170	MVC - 791AgDSC18015	MICH VEGETABLE COUNCIL MICH VEGETABLE COUNCIL	87,234	-
Agriculture Agriculture	Pass-through Pass-through	10.170 10.170	MVC GG19000000324 Onion Thrips	MICH ONION COMMITTEE	4,246 18,856	-
Agriculture	Pass-through	10.170	Spotted Wing Drosophila	MICH CHERRY COMMITTEE	10,032	
Agriculture	Pass-through	10.212	33769	NVE CORP	6,015	
Agriculture		10.215	8000083963-AG	PURDUE UNIVERSITY	1,631	-
Agriculture		10.215	H004403705	UNIVERSITY OF MINNESOTA	198	-
Agriculture		10.215	H004991225	NORTH CENTRAL REGION SARE AT THE UNIVERSITY OF MN	(11)	-
Agriculture		10.215	H004991236	UNIVERSITY OF MINNESOTA	48,425	-
Agriculture		10.215	H005722934	NORTH CENTRAL REGION SARE AT THE UNIVERSITY OF MN	497	-
Agriculture	Pass-through	10.215	H005722940	NORTH CENTRAL REGION SARE AT THE UNIVERSITY OF MN	9,089	-
Agriculture		10.215	H005722943	NORTH CENTRAL REGION SARE AT THE UNIVERSITY OF MN	2,342	-
Agriculture	Pass-through	10.215	H005722948	NORTH CENTRAL REGION SARE AT THE UNIVERSITY OF MN NORTH CENTRAL REGION SARE AT THE UNIVERSITY OF MN	5,455	-
Agriculture Agriculture	Pass-through Pass-through	10.215 10.215	H005722952 H006607414	NORTH CENTRAL REGION SARE AT THE UNIVERSITY OF MIN	10,224 72,247	-
Agriculture	Pass-through	10.215	H006607435	NORTH CENTRAL REGION SARE AT THE UNIVERSITY OF MIN	72,247	-
Agriculture		10.215	H006607437	NORTH CENTRAL REGION SARE AT THE UNIVERSITY OF MN	3,697	
Agriculture		10.215	H007179306	NORTH CENTRAL REGION SARE AT THE UNIVERSITY OF MN	5,428	-
Agriculture	Pass-through	10.227	MSU2018	KEWEENAW BAY OJIBWA COMMUNITY COLLEGE	9,934	-
Agriculture	Pass-through	10.250	0005238/01222019	UNIVERSITY OF RHODE ISLAND	13,214	-
Agriculture	Pass-through	10.290	H006796003	UNIVERSITY OF MINNESOTA	7,152	-
Agriculture	Pass-through	10.303	201265-497	UTAH STATE UNIVERSITY	2,288	-
Agriculture	Pass-through	10.303	3TD388	SOUTH DAKOTA STATE UNIVERSITY	771	-
Agriculture	Pass-through	10.303	60049684 CAES-2018-22866-2	OHIO STATE UNIVERSITY STATE OF CONNECTICUT	16,295 5,715	-
Agriculture	Pass-through	10.303 10.307	1196	UNIVERSITY OF MAINE	5,715 49,825	-
Agriculture Agriculture	Pass-through Pass-through	10.307	73676-10347	CORNELL UNIVERSITY	30,307	
Agriculture	Pass-through	10.307	73676-10347	CORNELL UNIVERSITY	1,528	-
Agriculture	Pass-through	10.307	73676-10347	CORNELL UNIVERSITY	308	_
Agriculture	Pass-through	10.307	RC293-636-S000865	UNIVERSITY OF GEORGIA	27,222	-
Agriculture		10.307	SUBK00001844	UNIVERSITY OF GEORGIA	43,267	-
Agriculture	Pass-through	10.309	0799-PP2018	RUTGERS UNIVERSITY	99,431	-
Agriculture	Pass-through	10.309	133336-G003922	WASHINGTON STATE UNIVERSITY	140,832	-
Agriculture		10.309	1762-207-2020386	CLEMSON UNIVERSITY	100,794	-
Agriculture		10.309	1762-207-2020386	CLEMSON UNIVERSITY	42,750	-
Agriculture		10.309	1762-207-2020386	CLEMSON UNIVERSITY NORTH CAROLINA STATE UNIVERSITY	7,544	-
Agriculture	Pass-through Pass-through	10.309 10.309	2017-0398-06 215-0228-11	NORTH CAROLINA STATE UNIVERSITY  NORTH CAROLINA STATE UNIVERSITY	128,230 191,006	-
Agriculture Agriculture	Pass-through	10.309	6066-PP2016-Smitley	RUTGERS UNIVERSITY	71,853	
Agriculture	Pass-through	10.309	73999-10421	CORNELL UNIVERSITY	46,088	
Agriculture	Pass-through	10.309	79611-10750	CORNELL UNIVERSITY	133,608	-
Agriculture	Pass-through	10.309	8000076815-AG	PURDUE UNIVERSITY	51,877	-
Agriculture		10.309	H007082502	UNIVERSITY OF MINNESOTA	9,812	-
Agriculture	Pass-through		SUB00000423	UNIVERSITY OF GEORGIA	25,960	-
Agriculture	Pass-through		U-G-01363-05	COLORADO STATE UNIVERSITY	86,588	-
Agriculture	Pass-through		07-MI702000	TEXAS A & M	10,000	-
Agriculture		10.310	132484-G003899	WASHINGTON STATE UNIVERSITY	45,121	-
Agriculture		10.310	13-453 MSU	WEST VIRGINIA UNIVERSITY	59,752	-
Agriculture		10.310	1556077	UNIVERSITY OF COLORADO AT BOULDER	162,668	-
Agriculture	Pass-through	10.310	1556077	UNIVERSITY OF COLORADO AT BOULDER	140,430	-
Agriculture	Pass-through	10.310	20152118-01	UNIVERSITY OF CALIFORNIA - DAVIS	20,567	-
Agriculture		10.310	201603566-06	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS	96,889	-
Agriculture		10.310	2018-7-57817	CAL POLY CORP	10,629	-
Agriculture		10.310	3TB462	SOUTH DAKOTA STATE UNIVERSITY	69,582	-
Agriculture		10.310	3TC453	SOUTH DAKOTA STATE UNIVERSITY	33,836	-
Agriculture		10.310	416-41-87B	IOWA STATE UNIVERSITY	27,444	-
Agriculture		10.310	60066382 71482287	OHIO STATE UNIVERSITY UNIVERSITY OF CALIFORNIA SAN DIEGO	54,014 5.121	-
Agriculture	Pass-through Pass-through	10.310 10.310	/148228/ 8000053332-AG	UNIVERSITY OF CALIFORNIA SAN DIEGO PURDUE UNIVERSITY	5,121 42,308	-
Agriculture Agriculture	Pass-through	10.310	8000069354	PURDUE UNIVERSITY PURDUE UNIVERSITY	(2,700)	-
Agriculture	Pass-through	10.310	BKK290-SB-005	UNIVERSITY OF IDAHO	(2,700)	-
Agriculture		10.310	C00050735-1	UNIVERSITY OF MISSOURI	44,882	-
Agriculture		10.310	G211-18-W7150	MONTANA STATE UNIVERSITY	35,927	-
Agriculture		10.310	PO #000001883	UNIVERSITY OF WISCONSIN	39,340	-
Agriculture	Pass-through		076332-15448	UNIVERSITY OF ILLINOIS	8,543	-
Agriculture		10.329	128995_G003680	WASHINGTON STATE UNIVERSITY	54,540	-
Agriculture	Pass-through	10.329	2014-07306-19	UNIVERSITY OF ILLINOIS	5,102	-
Agriculture		10.329	850K146	UNIVERSITY OF WISCONSIN - MADISON	12,346	-
			780K651	UNIVERSITY OF WISCONSIN - MADISON	15,625	
Agriculture		10.330				
Agriculture Agriculture	Pass-through	10.604	150204	US HIGHBUSH BLUEBERRY COUNCIL	191,705	
Agriculture	Pass-through Pass-through					- 50,906

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	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster						
(continued):						
Agriculture	Pass-through		App 148050	RENEWABLE RESOURCE SOLUTIONS	\$ 23,819	\$ -
Agriculture	Pass-through	10.680	Root Disease APP153122	WISCONSIN DEPT. OF NATURAL RESOURCES	237	-
Agriculture	Pass-through	10.903	8000083093-AG 060915-1	PURDUE UNIVERSITY	6,444	-
Agriculture	Pass-through	10.932 10.960	0666	NATURE CONSERVANCY THE RUTGERS UNIVERSITY	17,355 50,835	-
Agriculture	Pass-through Pass-thro		0000	ROTGERS ONIVERSITY	4,167,227	50,906
	Agricultu				34,417,076	7,678,120
_	-					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Commerce	Direct Direct	11.303 11.303	ED16CHI3030037 ED16CHI3030037	ECONOMIC DEVELOPMENT ADMINISTRATION ECONOMIC DEVELOPMENT ADMINISTRATION	97,962	-
Commerce Commerce	Direct	11.429	NA16NOS4290194	NATL OCEANIC & ATMOSPHERIC ADMIN	43,252 56,858	-
Commerce	Direct	11.425	NA170AR4310132	NATE OCEANIC & ATMOSPHERIC ADMIN	71,234	
Commerce	Direct	11.609	60NAB18D212	NATL INST OF STANDARDS & TECHNOLOGY	30,556	
Commerce	Direct	11.609	60NANB18D210	NATL INST OF STANDARDS & TECHNOLOGY	5,116	
Commerce	Direct	11.609	70NANB15H280	NATL INST OF STANDARDS & TECHNOLOGY	6,189	-
Commerce	Direct	11.609	70NANB16H244	NATL INST OF STANDARDS & TECHNOLOGY	5,819	-
Commerce	Direct	11.609	70NANB17H027	NATL INST OF STANDARDS & TECHNOLOGY	84,418	
Commerce	Direct	11.620	70NANB17H319	NATL INST OF STANDARDS & TECHNOLOGY	23,692	-
	Direct To	tal			425,096	-
Commerce	Pass-through	11.417	3003003182	UNIVERSITY OF MICHIGAN	(355)	-
Commerce	Pass-through	11.417	3003807199	UNIVERSITY OF MICHIGAN	6,689	-
Commerce	Pass-through		3004752711	UNIVERSITY OF MICHIGAN	8,490	-
Commerce	Pass-through	11.417	3004924854	UNIVERSITY OF MICHIGAN	39,740	-
Commerce	Pass-through		3004924855	UNIVERSITY OF MICHIGAN	317,588	-
Commerce	Pass-through	11.417	3004924855	UNIVERSITY OF MICHIGAN	32,575	-
Commerce	Pass-through		18-CHab-001	MI ENVIRONMENTAL QUALITY	70,016	
Commerce Commerce	Pass-through	11.419 11.419	18-Chab-002 18-Chaz-001	MI ENVIRONMENTAL QUALITY MICHIGAN DEPARTMENT OF NATURAL RESOURCES	63,905	32,587
Commerce	Pass-through Pass-through	11.419	C-19-Costal Marketing-001	MICH COASTAL MANAGEMENT PROGRAM	25,000 34,772	-
Commerce	Pass-through	11.419	MDNR #19-CHaz Assistantship-001	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	23,209	
Commerce	Pass-through	11.419	MEC 19-Chab-001	MICHIGAN ENVIRONMENTAL COUNCIL	11,095	
Commerce	Pass-through	11.427	505116-78050	NORTHEASTERN UNIVERSITY	27,412	
Commerce	Pass-through	11.431	3003959776	UNIVERSITY OF MICHIGAN	65,091	22,068
Commerce	Pass-through	11.432	3004178132	UNIVERSITY OF MICHIGAN	2,000	,
Commerce	Pass-through		3004178132	UNIVERSITY OF MICHIGAN	1,638	-
Commerce	Pass-through		3004178132	UNIVERSITY OF MICHIGAN	1,573	-
Commerce	Pass-through	11.432	3004903227	UNIVERSITY OF MICHIGAN	(1,066)	-
	Pass-thro	ugh Total			729,372	54,655
	Commerc	e Total			1,154,468	54,655
Defense	Direct	12	2017-17020200004	INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY	972,559	212,782
Defense	Direct	12	2017-17020200004	INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY	624,915	271,724
Defense	Direct	12	2018-18012900001	INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY	338,554	´-
Defense	Direct	12	FA8750-17-C-0182	AIR FORCE RESEARCH LABORATORY	62,298	-
Defense	Direct	12	N00173-19-P-1337	US NAVAL RESEARCH LABORATORY	17,580	-
Defense	Direct	12	W912HQ-17-C-0006	ARMY US CORPS OF ENGINEERS	70,479	-
Defense	Direct	12.010	W912DR-17-2-0001	ARMY US CORPS OF ENGINEERS	47,079	-
Defense	Direct	12.116	FA9453-14-C-0215	AIR FORCE RESEARCH LABORATORY	(65)	-
Defense	Direct	12.116	W912HQ-13-C-0071	ARMY US CORPS OF ENGINEERS	15,339	-
Defense	Direct	12.300	FA8750-16-2-0284	AIR FORCE RESEARCH LABORATORY	254,424	-
Defense	Direct	12.300	FA8750-17-1-0139	AIR FORCE RESEARCH LABORATORY	51,924	-
Defense	Direct	12.300	N00014-14-1-0631	NAVAL RESEARCH US OFFICE OF USDN	10,668	-
Defense	Direct	12.300 12.300	N00014-15-1-2005	NAVAL RESEARCH US OFFICE OF USDN	(3)	-
Defense Defense	Direct Direct	12.300	N00014-16-1-2109 N00014-16-1-2457	NAVAL RESEARCH US OFFICE OF USDN NAVAL RESEARCH US OFFICE OF USDN	147,851 146,340	
Defense	Direct	12.300	N00014-16-1-2457	NAVAL RESEARCH US OFFICE OF USDN	165,432	
Defense	Direct	12.300	N00014-16-1-2841	NAVAL RESEARCH US OFFICE OF USDN	169,415	
Defense	Direct	12.300	N00014-16-1-3051	NAVAL RESEARCH US OFFICE OF USDN	49,211	
Defense	Direct	12.300	N00014-17-1-2102	NAVAL RESEARCH US OFFICE OF USDN	208,649	-
Defense	Direct	12.300	N00014-17-1-2265	NAVAL RESEARCH US OFFICE OF USDN	206,245	-
Defense	Direct	12.300	N00014-17-1-2678	NAVAL RESEARCH US OFFICE OF USDN	268,914	-
Defense	Direct	12.300	N00014-17-1-2713	NAVAL RESEARCH US OFFICE OF USDN	158,679	-
Defense	Direct	12.300	N00014-17-1-2886	NAVAL RESEARCH US OFFICE OF USDN	144,054	-
Defense	Direct	12.300	N00014-18-1-2032	NAVAL RESEARCH US OFFICE OF USDN	1,058,471	641,873
Defense	Direct	12.300	N00014-18-1-2230	NAVAL RESEARCH US OFFICE OF USDN	93,445	-
Defense	Direct	12.300	N00014-18-1-2273	NAVAL RESEARCH US OFFICE OF USDN	243,430	-
Defense Defense	Direct Direct	12.300 12.300	N00014-18-1-2514 N00014-18-1-2597	NAVAL RESEARCH US OFFICE OF USDN NAVAL RESEARCH US OFFICE OF USDN	93,719 88.766	-
Defense	Direct	12.300	N00014-18-1-2337 N00014-19-1-2051	NAVAL RESEARCH US OFFICE OF USDN	124,125	
Defense	Direct	12.300	W9126G-12-2-0020	ARMY US CORPS OF ENGINEERS	(340)	1,278
Defense	Direct	12.300	W9126G-18-2-0011	ARMY US CORPS OF ENGINEERS	129,714	-
Defense	Direct	12.420	W81XWH-15-1-0018	ARMY US DEPT OF	31,388	-
Defense	Direct	12.420	W81XWH-15-1-0453	ARMY US DEPT OF	77,162	-
Defense	Direct	12.420	W81XWH-15-1-0454	ARMY US DEPT OF	6,088	-
Defense	Direct	12.420	W81XWH-16-1-0631	ARMY US DEPT OF	206,284	-
Defense	Direct	12.420	W81XWH-16-1-0676	ARMY US DEPT OF	101,288	-
Defense	Direct	12.420	W81XWH-16-1-0732	ARMY US DEPT OF	74,306	-
Defense	Direct	12.420	W81XWH-16-1-0735	ARMY US DEPT OF	356,089	-
Defense	Direct	12.420	W81XWH-17-1-0270	ARMY US DEPT OF	271,656	-
Defense	Direct	12.420	W81XWH-17-1-0282	ARMY US DEPT OF	243,642	-
Defense	Direct	12.420	W81XWH-17-1-0536	ARMY US DEPT OF	420,807	48,952
Defense Defense	Direct Direct	12.420 12.431	W81XWH1910051 W911NF-15-1-0487	ARMY US DEPT OF ARMY RESEARCH OFFICE U S	49,067 (2,576)	-
Defense	Direct	12.431	W911NF-15-1-0487 W911NF-17-1-0153	ARMY RESEARCH OFFICE U S	(2,576) 244,537	-
Defense	Direct	12.431	W911NF-17-1-0155 W911NF1810190	ARMY RESEARCH OFFICE U.S	325,350	
Defense	Direct	12.431	W911NF1810190 W911NF1810330	ARMY RESEARCH OFFICE U.S	102,765	-
Defense	Direct	12.431	W911NF1810330 W911NF1910174	ARMY RESEARCH OFFICE U.S.	22,528	-
Defense	Direct	12.630	HM04761510001	DEFENSE US DEPT OF	129,030	-
Defense	Direct	12.630	W911NF-14-1-0026	ARMY US DEPT OF	252,020	-
Defense	Direct	12.630	W912HZ-17-2-0030	ARMY US DEPT OF	70,347	-
Defense	Direct	12.800	FA8650-18-2-6880	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	326,367	-
Defense	Direct	12.800	FA9550-12-1-0343	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	20	-
Defense	Direct	12.800	FA9550-15-1-0282	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	34,486	-
Defense	Direct	12.800	FA9550-17-1-0150	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	80,547	-
Defense	Direct	12.800	FA9550-17-1-0394	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	398,365	-
Defense	Direct	12.800	FA9550-17-1-0411	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	113,860	-

				Year Ended Ju	
Federal Agency		FDA ote 5) Award Number	Grantor Name	Total Expenditures	Subaward Payments
esearch and Development Cluster					
(continued):					
Defense	Direct 12.8		AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	\$ 132,299 \$	
Defense	Direct 12.8		AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	1,099,489	756,660
Defense	Direct 12.9		NATL SECURITY AGENCY	17,487	-
Defense	Direct 12.9		NATL SECURITY AGENCY	(2,385)	-
Defense	Direct 12.9		NATL SECURITY AGENCY NATL SECURITY AGENCY	25,322	-
Defense Defense	Direct 12.9 Direct 12.9		DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	216 190,988	-
	Direct 12.5		AIR FORCE US DEPT OF		260,040
Defense	Direct 12.5		DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	310,845	
Defense Defense	Direct 12.5		DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	12,915 254,455	11,949
Delense	Direct Total	10 N00001-17-1-4045	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	11,938,925	2,205,258
					2,203,230
Defense	Pass-through 12	101129	FBSCIENCES	10,674	-
Defense	Pass-through 12	201652-140858	NATL CTR FOR MANUFACTURING SCIENCE	138,560	-
Defense	Pass-through 12	201845-140914	NATL CTR FOR MANUFACTURING SCIENCE	131,699	-
Defense	Pass-through 12	201851-140919 313-0875	NATL CTR FOR MANUFACTURING SCIENCE	71,764	-
Defense	Pass-through 12 Pass-through 12	404-77-20	IOWA STATE UNIVERSITY	112,571 1	-
Defense Defense	Pass-through 12 Pass-through 12	68171-Z9233203	UNIVERSITY OF MARYLAND	28,328	
Defense	Pass-through 12	A002-2018	ARRAY INFORMATION TECHNOLOGY	130	
Defense	Pass-through 12	A17-0682-S002	TENNESSEE UNIV OF	62,475	-
Defense	Pass-through 12	A17-0682-5002 A17-0682-5002-A01	TENNESSEE UNIV OF	9,110	
			BRAINSCOPE CO INC	12,648	-
Defense	Pass-through 12	Brainscope Supplement			-
Defense	Pass-through 12	C-737911	BATTELLE COLUMBUS LABS	7,475	-
Defense	Pass-through 12	DRC.1250.00106.18	RIVERSIDE RESEARCH	62,109	-
Defense Defense	Pass-through 12 Pass-through 12	FS-18-JV-11242306-048 G42871-N01-065-MSU	USDA FOREST SERVICE	48,214	-
Defense			STRATEGIC ANALYSIS, INC. KYMA TECHNOLOGIES INC	18,310	-
Defense Defense	Pass-through 12 Pass-through 12	KTI-W911QX-18C-0005 P004957701	KYMA TECHNOLOGIES INC UNIVERSITY OF MINNESOTA	18,495	-
				199,490	-
Defense	Pass-through 12	SC-18-014	SOAR TECHNOLOGY, INC.	45,523	-
Defense Defense	Pass-through 12 Pass-through 12	TECH-X N68335-18-C-0060-MSU TECH-X W31P4Q-17-C-0037-MSU	TECH-X CORPORATION TECH-X CORPORATION	27,396 63,267	-
					-
Defense	Pass-through 12.1		MASSACHUSETTS INST OF TECHNOLOGY NORTHROP GRUMMAN CORP	28,417	-
Defense Defense	Pass-through 12.1		NATL CTR FOR MANUFACTURING SCIENCE	224,838 111,277	-
	Pass-through 12.2				-
Defense	Pass-through 12.3		UNIVERSITY OF TULSA OKLAHOMA	56,303	-
Defense	Pass-through 12.4	20 1(GG011705)	COLUMBIA UNIVERSITY	14,105	-
P. f	B	20 4475	HENRY M. JACKSON FOUNDATION FOR ADVANCEMENT OF	24.540	
Defense	Pass-through 12.4		MILITARY MEDICINE	31,610	-
Defense	Pass-through 12.4		PENNSYLVANIA STATE UNIVERSITY	49,736	-
Defense	Pass-through 12.4		UNIVERSITY OF MICHIGAN	92,570	-
Defense	Pass-through 12.4		UNIVERSITY OF WASHINGTON	11,684	-
Defense	Pass-through 12.4		BROWN UNIVERSITY	319,360	-
Defense	Pass-through 12.4		BROWN UNIVERSITY	53,813	-
Defense	Pass-through 12.4		UNIVERSITY OF UTAH	181,125	-
Defense	Pass-through 12.4		PRINCETON UNIVERSITY	74,777	-
Defense	Pass-through 12.8		UNIVERSITY OF TEXAS - SAN ANTONIO	3,088	-
Defense	Pass-through 12.8		BOISE STATE UNIVERSITY	2,182	-
Defense	Pass-through 12.9		RUTGERS UNIVERSITY	4,321	-
Defense	Pass-through 12.9		UNIVERSITY OF CALLEGRALA	5,539	-
Defense	Pass-through 12.9		UNIVERSITY OF CALIFORNIA	122,726	-
Defense	Pass-through 12.9		REGENTS OF THE UNIVERSITY OF CALIFORNIA	62	-
Defense	Pass-through 12.9		SIEMENS CORPORATION	141,264	-
Defense	Pass-through 12.9		ARIZONA STATE UNIVERSITY	9,801	-
Defense	Pass-through 12.9		RAYTHEON COMPANY	104,246	-
	Pass-through T	tal		2,711,083	2 205 250
	Defense Total			14,650,008	2,205,258
Education	Direct 84.0	15 P015B140098	US DEPT OF EDUCATION		
Education	Diseast 04.0			10,790	-
Education	Direct 84.0	15 P015B180155	US DEPT OF EDUCATION	10,790 288,133	
	Direct 84.0		US DEPT OF EDUCATION US DEPT OF EDUCATION		-
Education		15 P015B180155		288,133	- - -
	Direct 84.0	15 P015B180155 00 P200A180025	US DEPT OF EDUCATION	288,133 192,847	-
Education	Direct 84.0 Direct 84.2	15 P015B180155 00 P200A180025 00 P200A180025	US DEPT OF EDUCATION US DEPT OF EDUCATION	288,133 192,847 23,594	- - - -
Education Education	Direct 84.0 Direct 84.2 Direct 84.2	15 P015B180155 00 P200A180025 00 P200A180025 20 P220A180001	US DEPT OF EDUCATION US DEPT OF EDUCATION US DEPT OF EDUCATION	288,133 192,847 23,594 12,516	- - - - - 117,356
Education Education Education	Direct 84.0 Direct 84.2 Direct 84.2 Direct 84.2	15 P0158180155 00 P200A180025 00 P200A180025 20 P220A180001 05 R305A150210	US DEPT OF EDUCATION	288,133 192,847 23,594 12,516 181,484	- - - - - 117,356
Education Education Education Education	Direct 84.0 Direct 84.2 Direct 84.2 Direct 84.2 Direct 84.3	15 P015B180155 00 P200A180025 00 P200A180025 20 P220A180001 05 R305A150210 05 R305A160049	US DEPT OF EDUCATION	288,133 192,847 23,594 12,516 181,484 258,420	- - - - - 117,356
Education Education Education Education Education	Direct         84.0           Direct         84.1           Direct         84.2           Direct         84.3           Direct         84.3           Direct         84.3	15 P015B180155 00 P200A180025 00 P200A180025 20 P220A180001 05 R305A150210 05 R305A150049 24 R324A150063	US DEPT OF EDUCATION	288,133 192,847 23,594 12,516 181,484 258,420 224,877	117,356
Education Education Education Education Education Education Education Education	Direct         84.0           Direct         84.2           Direct         84.2           Direct         84.2           Direct         84.3           Direct         84.3           Direct         84.3	15 P0158180155 00 P200A180025 00 P200A180025 20 P220A180001 05 R305A150210 05 R305A150210 25 R324A150063 24 R324A150063	US DEPT OF EDUCATION	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405	117,356
Education Education Education Education Education Education Education Education Education	Direct         84.0           Direct         84.2           Direct         84.3           Direct         84.4           Direct         84.5           Direct         84.5           Direct         84.3           Direct         84.3	15 P0158180155 00 P200A180025 00 P200A180025 20 P220A180001 05 R305A150210 05 R305A150210 25 R324A150063 24 R324A150063	US DEPT OF EDUCATION	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376	- - -
Education Education Education Education Education Education Education Education Education	Direct         84.4           Direct         84.4           Direct         84.4           Direct         84.5           Direct         84.5           Direct         84.5           Direct         84.5           Direct         84.5           Direct Total	15 P0158180155 00 P200A180025 P200A180025 20 P220A180001 05 R305A150210 05 R305A150210 06 R305A150049 24 R324A150063 24 R324B170003	US DEPT OF EDUCATION	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446	- - -
Education	Direct   84.1	15 P0158180155 00 P200A180025 00 P200A180025 20 P220A180001 05 R305A150210 05 R305A150210 24 R324A180122 24 R324A180122 24 R324B170003	US DEPT OF EDUCATION	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446	- - -
Education	Direct	15 P0158180155 00 P200A180025 00 P200A180025 01 P200A180025 02 P220A180001 05 R305A150210 05 R305A150010 04 R324A150063 04 R324A150063 04 R324A15003	US DEPT OF EDUCATION	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,466 24,635 (195)	- - -
Education	Direct   84.0	15 P0158180155 00 P200A180025 01 P200A180025 20 P220A180001 05 R305A150210 05 R305A150210 06 R325A150049 24 R324A150063 24 R324B170003 04 8004D160011 48 173430-17133 48 183430-18133	US DEPT OF EDUCATION INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195)	- - -
Education	Direct   84.1	15 P0158180155 00 P200A180025 00 P200A180025 00 P200A180025 20 P220A180001 05 R305A150210 05 R305A150210 05 R305A160049 24 R324A150063 24 R324A150063 24 R324B170003	US DEPT OF EDUCATION INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIVE	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391)	- - -
Education	Direct	15 P0158180155 00 P200A180025 00 P200A180025 20 P220A180001 05 R305A150210 05 R305A150210 05 R305A160049 24 R324A150063 24 R324A150063 24 R324B170003  04 8004D160011 48 173430-17133 48 133430-18133 16 SP00012139-06 63 VRTAC-PEQA	US DEPT OF EDUCATION INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIV UNIVERSITY OF WISCONSIN STOUT	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107	- - -
Education	Direct   84.1	15 P0158180155 00 P200A180025 00 P200A180025 20 P220A180001 05 R305A150210 05 R305A150210 24 R324A150063 24 R324A180122 24 R324A180122 24 R324A180122 34 R324A180133 16 S000111 48 173430-17133 48 183430-18133 16 SP00012139-06 63 VRTAC-PEQA 67 182122-MSUEVAL	US DEPT OF EDUCATION INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIV UNIVERSITY OF WISCONSIN STOUT MICHIGAN DEPARTMENT OF EDUCATION	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107	- - -
Education	Direct	15 P0158180155 00 P200A180025 00 P200A180025 20 P200A180001 05 R305A150210 05 R305A150210 05 R305A160049 24 R324A150063 24 R324A180122 24 R324B170003  04 8004D160011 48 173430-17133 48 133430-18133 6 SP00012139-06 63 VRTAC-PEQA 87 182122-MSUEVAL	US DEPT OF EDUCATION INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIV UNIVERSITY OF WISCONSIN STOUT MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,860	- - -
Education	Direct   84.0	15 P0158180155 00 P200A180025 00 P200A180025 01 P200A180025 20 P220A180001 05 R305A150210 05 R305A160049 24 R324A150063 24 R324A150063 24 R324A150063 24 R324A151003 004 8004D160011 48 173430-17133 48 183430-18133 16 SP00012139-06 05 VRTAC-PEQA 87 182122-MSUEVAL 87 192122 05 0388700002	US DEPT OF EDUCATION INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIV UNIVERSITY OF WISCONSIN STOUT MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN INSTITUTES FOR RESEARCH	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,860 44,662	- - -
Education	Direct   84.1	15 P0158180155 00 P200A180025 00 P200A180025 00 P200A180025 20 P220A180001 05 R305A150210 05 R305A150210 05 R305A160049 24 R324A150063 24 R324A150063 24 R324B170003  04 8004D160011 48 173430-17133 48 183430-18133 16 SP00012139-06 63 VRTAC-PEOA 7 182122-MSUEVAL 87 192122 0 0388700002 0 04404000002	US DEPT OF EDUCATION  INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIV UNIVERSITY OF WISCONSIN STOUT MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH AMER INSTITUTES FOR RESEARCH	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,860 44,662 6,621	- - -
Education	Direct   84.1	15 P0158180155 00 P200A180025 00 P200A180025 01 P200A180025 20 P220A180001 05 R305A150210 05 R305A1500210 24 R324A150063 24 R324A150063 24 R324A150063 24 R324B17003  04 8004D160011 48 173430-17133 48 133430-18133 65 P00012139-06 63 VRTAC-PEQA 87 182122-MSUEVAL 87 19212 05 0388700002 05 0440400002 05 130596	US DEPT OF EDUCATION  INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIV UNIVERSITY OF WISCONSIN STOUT MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,860 44,662 6,621 192,086	- - -
Education	Direct   84.1	15 P0158180155 00 P200A180025 00 P200A180025 00 P200A180001 05 R305A150210 05 R305A150210 05 R305A150049 24 R324A150063 24 R324A180122 24 R324A180122 26 R324A180122 27 R324A180122 28 R324B170003 04 8004D160011 48 173430-17133 48 183430-18133 16 SP00012139-06 63 VRTAC-PEQA 637 182122-MSUEVAL 637 192122 05 0388700002 05 0388700002 05 0440400002 05 130596 05 511140-02	US DEPT OF EDUCATION INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIV UNIVERSITY OF WISCONSIN STOUT MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEP	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,860 44,662 6,621 192,086	- - -
Education	Direct   84.	15 P0158180155 00 P200A180025 00 P200A180025 01 P200A180025 20 P220A180001 05 R305A150210 05 R305A150210 05 R305A160049 24 R324A150063 24 R324A150063 24 R324B170003  04 8004D160011 48 173430-17133 48 134340-18133 45 P00012139-06 63 VRTAC-PECA 87 182122-MSUEVAL 87 192122 05 0388700002 05 0444000002 05 130596 05 511140-02 05 ED162A-A	US DEPT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLUMBIA UNIVERSITY OREGON STATE UNIVERSITY	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,860 44,662 6,621 192,086 43,022 34,572	- - -
Education	Direct   84.1	15 P0158180155 00 P200A180025 01 P200A180025 02 P200A180001 05 R305A150210 05 R305A150210 05 R305A150009 24 R324A150063 24 R324A150063 24 R324A150063 24 R324A150063 04 8004D160011 48 173430-17133 48 133430-18133 16 SP00012139-06 63 VRTAC-PEQA 87 182122-MSUEVAL 87 19212 05 0388700002 05 040400002 05 130596 05 511140-02 05 ED162A-A 05 SCC-5556404-18/19	US DEPT OF EDUCATION INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIV UNIVERSITY OF WISCONSIN STOUT MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLUMBIA UNIVERSITY OREGON STATE UNIVERSITY TULANE UNIVERSITY	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,862 4,662 6,621 192,086 43,022 34,572 209,716	- - -
Education	Direct   84.1	15 P0158180155 00 P200A180025 00 P200A180025 01 P200A180025 02 P20A180001 05 R305A150210 05 R305A150210 05 R305A160049 24 R324A150063 24 R324A150063 24 R324A150063 24 R324B170003 04 8004D160011 48 173430-17133 48 183430-18133 16 SP00012139-06 63 VRTAC-PEQA 1781222-MSUEVAL 192122 05 0388700002 05 130596 05 11140-02 05 ED162A-A 005 ED162A-A 100 P200180025 100 P20018	US DEPT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLUMBIA UNIVERSITY OREGON STATE UNIVERSITY	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 1128,106 44,662 6,621 192,086 43,022 34,572 209,716 81,585	- - -
Education	Direct	15 P0158180155 00 P200A180025 00 P200A180025 01 P200A180025 02 P20A180001 05 R305A150210 05 R305A150210 05 R305A150210 06 R305A150210 07 R305A150210 08 R324A150063 08 R324A150063 09 R324A150063 09 R324A150063 09 R324A15013 00	US DEPT OF EDUCATION INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIV UNIVERSITY OF WISCONSIN STOUT MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLUMBIA UNIVERSITY OREGON STATE UNIVERSITY TULANE UNIVERSITY	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,860 44,662 6,621 192,086 43,022 34,572 209,716 81,585 1,386,871	117,356
Education	Direct   84.1	15 P0158180155 00 P200A180025 00 P200A180025 01 P200A180025 02 P20A180001 05 R305A150210 05 R305A150210 05 R305A150210 06 R305A150210 07 R305A150210 08 R324A150063 08 R324A150063 09 R324A150063 09 R324A150063 09 R324A15013 00	US DEPT OF EDUCATION INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIV UNIVERSITY OF WISCONSIN STOUT MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLUMBIA UNIVERSITY OREGON STATE UNIVERSITY TULANE UNIVERSITY	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 1128,106 44,662 6,621 192,086 43,022 34,572 209,716 81,585	117,356
Education	Direct	15 P0158180155 00 P200A180025 00 P200A180025 01 P200A180025 02 P20A180001 05 R305A150210 05 R305A150210 05 R305A150210 06 R305A150210 07 R305A150210 08 R324A150063 08 R324A150063 09 R324A150063 09 R324A150063 09 R324A15013 00	US DEPT OF EDUCATION INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIV UNIVERSITY OF WISCONSIN STOUT MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLUMBIA UNIVERSITY OREGON STATE UNIVERSITY TULANE UNIVERSITY	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,862 6,621 192,086 43,022 34,572 209,716 81,585 1,386,871 3,254,317	117,356
Education	Direct	15 P0158180155 00 P200A180025 00 P200A180025 00 P200A180001 05 R305A150210 05 R305A150210 05 R305A150203 24 R324A150063 24 R324A150063 24 R324A150063 25 R305A160011 48 173430-17133 48 138430-18133 16 SP00012139-06 63 VRTAC-PEOA 7 182122-MSUEVAL 87 192122 05 0388700002 05 4040400002 05 130596 05 511140-02 05 ED162A-A 05 SCC-556404-18/19 11 Investing in Innovation (i3)	US DEPT OF EDUCATION US DEPT OF DEPUCATION US DEPT OF EDUCATION US DEPT OF EDUCATION US DEPT OF EDUCATION US DEPT OF EDUCATION  INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION GEORGIA STATE UNIV UNIVERSITY OF WISCONSIN STOUT MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLLUMBIA UNIVERSITY ORGON STATE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY US DEPT OF ENERGY	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446  24,635 (195) (391) 205,704 128,107 104,887 311,860 44,662 6,621 192,086 43,022 34,572 209,716 81,585 1,386,871 3,254,317	117,356
Education	Direct	15 P0158180155 00 P200A180025 00 P200A180025 01 P200A180025 02 P20A180001 05 R305A150210 05 R305A150210 05 R305A160049 24 R324A150063 24 R324A180122 24 R324B170003  04 8004D160011 48 173430-17133 48 133430-18133 65 P00012139-06 63 VRTAC-PEQA 87 182122-MSUEVAL 197122 05 0388700002 05 130596 05 511140-02 05 ED162A-A 05 SCC-556404-18/19 11 Investing in Innovation (i3) tal	US DEPT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN STATE UNIV UNIVERSITY OF WISCONSIN STOUT MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLUMBIA UNIVERSITY OREGON STATE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY HIGH/SCOPE EDUCATIONAL RESEARCH FDN.  US DEPT OF ENERGY US DEPT OF ENERGY	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,860 44,662 6,621 192,086 43,022 34,572 209,716 81,585 1,386,871 3,254,317 18,490 53,250	117,356
Education	Direct	15 P0158180155 00 P200A180025 00 P200A180025 00 P200A180001 05 R305A150210 05 R305A150210 05 R305A150010 05 R305A150009 24 R324A150063 24 R324A180122 24 R324A180122 26 R324A180122 27 R324A180122 28 R324A180122 29 R324A180122 20 R324A180133 21 R31232-MSUEVAL 21 R324A180133 21 R32122-MSUEVAL 21 R324A18012 21 R324A18	US DEPT OF EDUCATION  INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION AMEN INSTITUTES OF RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLUMBIA UNIVERSITY ORGON STATE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY US DEPT OF ENERGY US DEPT OF ENERGY	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,860 44,662 6,621 192,086 43,022 34,572 209,716 81,585 1,386,871 3,254,317 18,490 53,250 45,852	117,356
Education	Direct   84.1	15 P0158180155 00 P200A180025 00 P200A180025 01 P200A180025 02 P20A180001 05 R305A150210 05 R305A150210 05 R305A160049 24 R324A150063 24 R324A150063 24 R324A150063 24 R324B170003 04 8004D160011 48 173430-17133 48 138430-18133 16 SP00012139-06 63 VRTAC-PEQA 77 182122-MSUEVAL 87 192122 05 038870002 05 040400002 05 130596 05 511140-02 05 ED162A-A 05 SCC-556404-18/19 11 Investing in Innovation (i3) 8tal	US DEPT OF EDUCATION  INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLUMBIA UNIVERSITY OREGON STATE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY HIGH/SCOPE EDUCATIONAL RESEARCH FDN.	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 1128,106 44,662 6,621 192,086 43,022 34,572 209,716 81,585 1,386,871 3,254,317 18,490 53,250 45,852 93,710	117,356
Education	Direct	15 P0158180155 00 P200A180025 00 P200A180025 01 P200A180025 02 P20A180001 05 R305A150210 05 R305A150210 05 R305A150210 06 R305A150210 07 R305A150210 08 R305A150210 09 R305	US DEPT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLUMBIA UNIVERSITY ORGOON STATE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY US DEPT OF ENERGY	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,860 44,662 6,621 192,086 43,022 34,572 209,716 81,585 1,386,871 32,54,317 18,490 53,250 45,852 93,710 205,630	117,356
Education Educat	Direct   84.1	15 P0158180155 00 P200A180025 00 P200A180025 00 P200A180025 01 P20A180001 05 R305A150210 05 R305A150210 05 R305A150210 05 R305A150210 06 R305A150210 07 R305A150210 08 R324A150063 08 R324A150063 08 R324A150063 08 R324A150063 09 R324A150063 00 R324	US DEPT OF EDUCATION  INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLLUMBIA UNIVERSITY ORGON STATE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY US DEPT OF ENERGY	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446  24,635 (195) (391) 205,704 1128,107 104,887 311,860 44,662 6,621 192,086 43,022 34,572 209,716 81,585 1,386,871 3,254,317 18,490 53,250 45,852 93,710 205,630	117,356
Education Educat	Direct	15 P0158180155 00 P200A180025 01 P200A180025 02 P200A180001 05 R305A150210 05 R305A150210 05 R305A150210 05 R305A150210 06 R305A150210 07 R305A150210 08 R305A150210 08 R305A150210 09 R30	US DEPT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION AMER INSTITUTES FOR RESEARCH AMER INSTITUTES FOR RESEARCH UNIVERSITY OF CONNECTICUT TEACHERS COLLEGE, COLUMBIA UNIVERSITY ORGOON STATE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY TULANE UNIVERSITY US DEPT OF ENERGY	288,133 192,847 23,594 12,516 181,484 258,420 224,877 345,405 232,376 97,004 1,867,446 24,635 (195) (391) 205,704 128,107 104,887 311,860 44,662 6,621 192,086 43,022 34,572 209,716 81,585 1,386,871 32,54,317 18,490 53,250 45,852 93,710 205,630	117,356

					Year Ended June 30, 2019		
	Direct/	CFDA			Total	Subaward	
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments	
Research and Development Cluster							
(continued): Energy	Direct	81.049	DE-FG02-91ER20021	US DEPT OF ENERGY	\$ 116,790	\$ -	
Energy	Direct	81.049	DE-FG02-98ER20305	US DEPT OF ENERGY	(173)	-	
Energy	Direct	81.049	DE-FG02-99ER62848	US DEPT OF ENERGY	34,214	-	
Energy	Direct Direct	81.049 81.049	DE-SC0000661 DE-SC0000661	US DEPT OF ENERGY US DEPT OF ENERGY	42,848,012 1,812,821	8,042	
Energy Energy	Direct	81.049	DE-SC0000661 DE-SC0000661	US DEPT OF ENERGY	736,755		
Energy	Direct	81.049	DE-SC0000661	US DEPT OF ENERGY	33,767	-	
Energy	Direct	81.049	DE-SC0001525	US DEPT OF ENERGY	220,830	-	
Energy	Direct	81.049	DE-SC0002325	US DEPT OF ENERGY	78,458	-	
Energy	Direct	81.049	DE-SC0007101	US DEPT OF ENERGY	226,610	-	
Energy Energy	Direct Direct	81.049 81.049	DE-SC0009962 DE-SC0010847	US DEPT OF ENERGY US DEPT OF ENERGY	321,624 133,696	125,360	
Energy	Direct	81.049	DE-SC0013365	US DEPT OF ENERGY	270,310		
Energy	Direct	81.049	DE-SC0013617	US DEPT OF ENERGY	374,387	71,037	
Energy	Direct	81.049	DE-SC0013617	US DEPT OF ENERGY	18,382	-	
Energy	Direct	81.049	DE-SC0014108	US DEPT OF ENERGY	253,572	-	
Energy	Direct Direct	81.049 81.049	DE-SC0014108 DE-SC0014108	US DEPT OF ENERGY US DEPT OF ENERGY	199,435 5,135	-	
Energy Energy	Direct	81.049	DE-SC0014108 DE-SC0014108	US DEPT OF ENERGY	2,828	-	
Energy	Direct	81.049	DE-SC0014384	US DEPT OF ENERGY	2,403,195	210,958	
Energy	Direct	81.049	DE-SC0014530	US DEPT OF ENERGY	259,007	-	
Energy	Direct	81.049	DE-SC0014554	US DEPT OF ENERGY	83,218	21,248	
Energy	Direct	81.049	DE-SC0015903	US DEPT OF ENERGY	133,148	-	
Energy	Direct	81.049	DE-SC0015904	US DEPT OF ENERGY	40,970	-	
Energy Energy	Direct Direct	81.049 81.049	DE-SC0016052 DE-SC0016604	US DEPT OF ENERGY US DEPT OF ENERGY	151,218 64,662	-	
Energy	Direct	81.049	DE-SC0016948	US DEPT OF ENERGY	158,975	-	
Energy	Direct	81.049	DE-SC0017342	US DEPT OF ENERGY	210,254		
Energy	Direct	81.049	DE-SC0017883	US DEPT OF ENERGY	242,031	11,820	
Energy	Direct	81.049	DE-SC0017887	US DEPT OF ENERGY	158,253	-	
Energy	Direct	81.049	DE-SC0017888	US DEPT OF ENERGY	256,612	64,510	
Energy	Direct	81.049	DE-SC0017889	US DEPT OF ENERGY	31,933	-	
Energy	Direct Direct	81.049 81.049	DE-SC0017952 DE-SC0017955	US DEPT OF ENERGY US DEPT OF ENERGY	126,688 202,344	- 85,978	
Energy Energy	Direct	81.049	DE-SC0017955	US DEPT OF ENERGY	2,315		
Energy	Direct	81.049	DE-SC0018083	US DEPT OF ENERGY	338,890	111,056	
Energy	Direct	81.049	DE-SC0018083	US DEPT OF ENERGY	43,635	-	
Energy	Direct	81.049	DE-SC0018269	US DEPT OF ENERGY	1,218,825	815,831	
Energy	Direct	81.049	DE-SC0018269	US DEPT OF ENERGY	209,581	-	
Energy	Direct	81.049	DE-SC0018269	US DEPT OF ENERGY	170,007	-	
Energy	Direct	81.049	DE-SC0018362	US DEPT OF ENERGY	270,581	-	
Energy Energy	Direct Direct	81.049 81.049	DE-SC0018432 DE-SC001863	US DEPT OF ENERGY US DEPT OF ENERGY	110,635 158,761		
Energy	Direct	81.049	DE-SC0018637	US DEPT OF ENERGY	208,836	-	
Energy	Direct	81.049	DE-SC0018638	US DEPT OF ENERGY	157,605	-	
Energy	Direct	81.049	DE-SC0018966	US DEPT OF ENERGY	100,673	-	
Energy	Direct	81.049	DE-SC0018973	US DEPT OF ENERGY	20,263	-	
Energy	Direct	81.049	DE-SC0019015	US DEPT OF ENERGY	14,022	-	
Energy Energy	Direct Direct	81.049 81.049	DE-SC0019034 DE-SC0019058	US DEPT OF ENERGY US DEPT OF ENERGY	147,318 94,707	-	
Energy	Direct	81.049	DE-SC0019072	US DEPT OF ENERGY	105,045	-	
Energy	Direct	81.049	DE-SC0019113	US DEPT OF ENERGY	21,282		
Energy	Direct	81.049	DE-SC0019120	US DEPT OF ENERGY	44,506	-	
Energy	Direct	81.049	DE-SC0019203	US DEPT OF ENERGY	2,966	-	
Energy	Direct	81.049	DE-SC0019209	US DEPT OF ENERGY	128,664	-	
Energy	Direct	81.049	DE-SC0019252	US DEPT OF ENERGY US DEPT OF ENERGY	76,173	-	
Energy	Direct Direct	81.049 81.049	DE-SC0019259 DE-SC0019260	US DEPT OF ENERGY US DEPT OF ENERGY	40,693 15,000	-	
Energy Energy	Direct	81.049	DE-SC0019260 DE-SC0019369	US DEPT OF ENERGY	39,400	-	
Energy	Direct	81.049	DESC0019403-	US DEPT OF ENERGY	25,676		
Energy	Direct	81.049	DE-SC0019455	US DEPT OF ENERGY	4,023	-	
Energy	Direct	81.086	DE-EE0007803	US DEPT OF ENERGY	293,838	158,717	
Energy	Direct	81.086	DE-EE0008320	US DEPT OF ENERGY	62,641	-	
Energy	Direct	81.086	DE-EE0008455	US DEPT OF ENERGY	152,757	400.055	
Energy Energy	Direct Direct	81.087 81.089	DE-EE0008148 DE-FE0023315	US DEPT OF ENERGY US DEPT OF ENERGY	620,415 15,226	409,858	
Energy	Direct	81.089	DE-FE0023313 DE-FE0030977	US DEPT OF ENERGY	369,761	2,573	
Energy	Direct	81.089	DE-FE0031250	US DEPT OF ENERGY	136,346	77,358	
Energy	Direct	81.089	DE-FE0031672	US DEPT OF ENERGY	224,301	,	
Energy	Direct	81.112	DE-NA0002847	US DEPT OF ENERGY	2,197	-	
Energy	Direct	81.112	DE-NA0002923	US DEPT OF ENERGY	223,281	-	
Energy	Direct	81.112	DE-NA0002924	US DEPT OF ENERGY	170,092	-	
Energy	Direct	81.112	DE-NA0003221	US DEPT OF ENERGY	210,672	-	
Energy Energy	Direct Direct	81.112 81.135	DE-NA0003885 DE-AR0000455	US DEPT OF ENERGY US DEPT OF ENERGY	117,995 (136)	-	
Energy	Direct	81.135	DE-AR0000455 DE-AR0000991	US DEPT OF ENERGY US DEPT OF ENERGY	177,636	-	
- 🕠	Direct Tot				62,636,766	2,255,520	
Energy	Pass-through	81	16-P0616	JEFFERSON SCIENCE ASSOCIATES LLC	32		
				THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR			
Energy	Pass-through	81	186853	UNIVERSITY - SLAC	13,917	-	
Energy	Pass-through	81	1955343	SANDINA NATIONAL LABORATORIES	81,541	-	
Energy	Pass-through		276363	LOS ALAMOS NATIONAL LABORATORY	(6,375)	-	
Energy	Pass-through		308720	BROOKHAVEN NATL LABORATORY	71,132	-	
Energy	Pass-through		319838	LOS ALAMOS NATIONAL LABORATORY	14,014	-	
Energy Energy	Pass-through Pass-through	81 81	332574 344028	LOS ALAMOS NATIONAL LABORATORY BROOKHAVEN NATL LABORATORY	71,321 91,525	-	
Energy	Pass-through	81	344514	BROOKHAVEN NATE LABORATORY BROOKHAVEN NATE LABORATORY	63,453	-	
Energy	Pass-through	81	4000166582	OAK RIDGE NATIONAL LAB	42,179		
Energy	Pass-through	81	404227	LOS ALAMOS NATIONAL LABORATORY	148,124	-	
Energy	Pass-through	81	510272	LOS ALAMOS NATIONAL LABORATORY	68,592	-	
Energy	Pass-through		510272	LOS ALAMOS NATIONAL LABORATORY	38,809	-	
Energy	Pass-through		527464	LOS ALAMOS NATIONAL LABORATORY	11,085	-	
Energy	Pass-through		638420	FERMI NATL ACCELERATOR LAB	60,738	-	
Energy	Pass-through		640672 642883	FERMI NATL ACCELERATOR LAB	122,960	-	
Energy	Pass-through	01	072003	FERMI NATL ACCELERATOR LAB	27,109	-	

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	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster						
(continued):						
Energy	Pass-through		645950	FERMI NATL ACCELERATOR LAB	\$ 25,851	\$ -
Energy		81	646732	FERMI NATL ACCELERATOR LAB	152,325	-
Energy		81	650703	FERMI NATL ACCELERATOR LAB THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - LBNL	37,248	-
Energy		81 81	7436735 8F-30001	ARGONNE NATIONAL LABORATORY	2,790 (25)	-
Energy Energy		81	9F-60106	ARGONNE NATIONAL LABORATORY	12,431	
Energy		81	B632490	LAWRENCE LIVERMORE NATL LAB	82,480	
Energy	Pass-through		ILAB-645751	FERMI NATL ACCELERATOR LAB	36,794	
Energy		81	Joint Appt Hao	BROOKHAVEN SCIENCE ASSOC LLC	153,484	
Energy	Pass-through		N000251535	HONEYWELL CORPORATION	22,389	
Energy		81	N000254451	HONEYWELL CORPORATION	138,399	
Energy		81	N000295611	HONEYWELL CORPORATION	223,617	-
Energy		81	PO1910351	SANDINA NATIONAL LABORATORIES	78,404	-
Energy	Pass-through	81.041	MEO-18-007	MICHIGAN ENERGY OFFICE	184,143	-
Energy	Pass-through	81.049	00340757	NIOWAVE, INC	49,945	-
Energy	Pass-through	81.049	2014-13	UNIVERSITY OF OKLAHOMA	93,980	-
Energy		81.049	201801	UHV TECHNOLOGIES INC	40,518	-
Energy	Pass-through	81.049	3003805140	UNIVERSITY OF MICHIGAN	169,015	-
Energy		81.049	348207	PHDS CO.	11,313	-
Energy		81.049	384H963	BD OF REGENTS OF THE UNIV WISC	353,989	-
Energy		81.049	508145	LOS ALAMOS NATIONAL LABORATORY	49,098	-
Energy		81.049	5103977	UNIVERSITY OF NORTH CAROLINA	25,711	-
Energy		81.049	53793	MARINE BIOLOGICAL LABORATORY	37,386	-
Energy		81.049	812K980	UNIVERSITY OF WISCONSIN - MADISON	10,677,076	-
Energy		81.049	AGR2017 00021	ESTEC SERVICE, LLC	442	-
Energy		81.049	CORP-82429-4066-46	PHYSICAL SCIENCES INC	49,310	-
Energy		81.049 81.049	DOE 17630-Z7181004 GF70041-2	UNIVERSITY OF MARYLAND UNIVERSITY OF NORTH TEXAS	94,622	-
Energy					24,507	-
Energy		81.049	S00460-01 SUB0000288	UNIVERSITY OF IOWA	2,041	-
Energy		81.049 81.086	SUB0000288 4300501633	PRINCETON UNIVERSITY GENERAL MOTORS CORPORATION	98,236	-
Energy Energy		81.086 81.086	4300501633 A16-0349-S005	GENERAL MOTORS CORPORATION  COLLABORATIVE COMPOSITE SOLUTIONS CORP.	98,437 84,393	-
		81.086	A16-0349-S005	COLLABORATIVE COMPOSITE SOLUTIONS CORP.	(373,675)	•
Energy Energy		81.086	CORP-A16-0349-S005	COLLABORATIVE COMPOSITE SOLUTIONS CORP.	63,955	
Energy		81.086	CORP-A16-0349-S005	COLLABORATIVE COMPOSITE SOLUTIONS CORP.	36,466	
Energy		81.086	DOE PA16-0349-3.1-01	COLLABORATIVE COMPOSITE SOLUTIONS CORP.	950,183	
Energy		81.086	MB-DE-EE0008235	MERCEDES BENZ RESEARCH & DEVELOPMENT NORTH AMERICA, INC.		-
Energy		81.086	PA16-0349-3.16-01	COLLABORATIVE COMPOSITE SOLUTIONS CORP.	22,047	
Energy		81.086	PA16-0349-3.2-02	COLLABORATIVE COMPOSITE SOLUTIONS CORP.	198,894	
Energy		81.086	PA16-0349-3.7-01	COLLABORATIVE COMPOSITE SOLUTIONS CORP.	608,953	-
Energy		81.086	PA16-0349-3.9-01	COLLABORATIVE COMPOSITE SOLUTIONS CORP.	27,026	-
Energy	Pass-through	81.087	2108-219-2023054	CLEMSON UNIVERSITY	4,620	-
Energy	Pass-through	81.087	3004665464	UNIVERSITY OF MICHIGAN	60,360	-
Energy	Pass-through	81.087	G0174A-B	OREGON STATE UNIVERSITY	63,410	-
Energy	Pass-through	81.089	401469-5801	COLORADO SCHOOL OF MINES	14,822	-
Energy	Pass-through	81.112	18-S17	GEORGE WASHINGTON UNIVERSITY	39,591	-
Energy	Pass-through	81.112	4-10469-28	CARNEGIE INSTITUTE	(399)	-
Energy	Pass-through	81.112	S1924106 5108	RUTGERS UNIVERSITY	56,513	-
Energy	Pass-through		S1928815 5109 PO 579853	RUTGERS UNIVERSITY	147,469	-
Energy	Pass-through		00009330	UNIVERSITY OF CALIFORNIA BERKELEY	1,156,912	
	Pass-throug				17,141,214	
	Energy Tota	ıl			79,777,980	2,255,520
Environmental Protection Agency	Direct	66.001	83589201	ENVIRONMENTAL PROTECTION AGENCY	38,735	-
Environmental Protection Agency	Direct	66.509	83579801	ENVIRONMENTAL PROTECTION AGENCY	133,551	69,617
Environmental Protection Agency	Direct	66.509	83616801	ENVIRONMENTAL PROTECTION AGENCY	156,925	-
Environmental Protection Agency	Direct	66.516	83594101	ENVIRONMENTAL PROTECTION AGENCY	14,958	-
Environmental Protection Agency	Direct	66.951	00E01570-0	ENVIRONMENTAL PROTECTION AGENCY	4,774	-
	Direct Total	l			348,943	69,617
Environmental Protection Agency	Pass-through	66	10006-7-105247	CH2M HILL	22,208	
Environmental Protection Agency		66.419	2017-7216	MI ENVIRONMENTAL QUALITY	20,452	
Environmental Protection Agency		66.469	143652	THE STEWARDSHIP NETWORK	1,661	-
Environmental Protection Agency		66.469	1509080Z2	MICH TECHNOLOGICAL UNIVERSITY	26,879	-
Environmental Protection Agency		66.469	18-AOC-014	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	86,457	-
Environmental Protection Agency		66.469	19000001785	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	1,038	-
Environmental Protection Agency	Pass-through	66.469	AOC18-ECON-002	MI ENVIRONMENTAL QUALITY	95,881	-
Environmental Protection Agency		66.469	GL-00E02209	GREAT LAKES COMMISSION	53,670	-
Environmental Protection Agency		66.509	429-40-10D	IOWA STATE UNIVERSITY	22,391	-
Environmental Protection Agency		66.511	4109-79628	PURDUE UNIVERSITY	148,021	81,335
Environmental Protection Agency		66.511	4109-79628	PURDUE UNIVERSITY	46,930	-
Environmental Protection Agency		66.511	4109-79628	PURDUE UNIVERSITY	7,454	
	Pass-throug				533,042	81,335
	Environmer	ntal Protecti	on Agency Total		881,985	150,952
Federal Council on the Arts and Humanities	Direct	45.169	HK-50173-14	NATL ENDOWMENT FOR THE HUMANITIES	8,372	-
	Direct Total	l		•	8,372	-
Federal Council on the Arts and Humanities	Pass-through	4E 02E	18PS4197AC	MICHIGAN COUNCIL OF ARTS & CULTURAL AFFAIRS	15,000	
rederal Codifici off the Arts and Humanities	Pass-through		10F34157AC	MICHIGAN COUNCIL OF ARTS & COLTORAL AFFAIRS	15,000	
			Arts and Humanities Total	-	23,372	
				·		
Health and Human Services		93	200-2016-89831	CENTERS FOR DISEASE CONTROL AND PREVENTION	678,314	-
Health and Human Services		93	200-2016-89831	CENTERS FOR DISEASE CONTROL AND PREVENTION	305,733	-
Health and Human Services		93	200-2016-89831	CENTERS FOR DISEASE CONTROL AND PREVENTION	33,695	-
Health and Human Services		93	200-2016-89831	CENTERS FOR DISEASE CONTROL AND PREVENTION	21,000	-
Health and Human Services		93.110	5 R40MC27704-03-00	HEALTH RESOURCES & SERVICES ADMIN -PHS	40,560	-
Health and Human Services		93.113	1K01ES029115-01	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	167,789	-
Health and Human Services		93.113	1R01ES029227-01A1	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	67,483	-
Health and Human Services		93.113	1R01ES029541-01A1	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	33,728	-
Health and Human Services		93.113	1R21ES029205-01	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	261,350	-
Health and Human Services		93.113	4R01ES002520-29	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	288,402	-
Health and Human Services		93.113	5R01ES022302-03	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	371,370	200,646
Health and Human Services		93.113	5R01ES024064-02	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	439,883	-
Health and Human Services		93.113	5R21ES026022 - 02	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	3,427	956
Health and Human Services		93.113	5R25ES0250602-04S1	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	21,287	-
Health and Human Services		93.113 93.113	5T3ES007255-29 5T3ES007255-30	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	155,365 195,637	-
Health and Human Services					173,03/	

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	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster						
(continued):						
Health and Human Services	Direct	93.113	9R56ES029064-05A1	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	\$ 122,580	\$ 12,831
Health and Human Services	Direct	93.113	KES025435C	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	108,938	-
Health and Human Services	Direct	93.113 93.113	KES026208A	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	181,207	-
Health and Human Services	Direct		KES028047B		204,290	-
Health and Human Services Health and Human Services	Direct	93.113	R01ES027863	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	164,032	- 22.002
	Direct	93.113	RES017537C	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	369,676	22,092
Health and Human Services Health and Human Services	Direct Direct	93.113 93.113	RES024064A RES024570B	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	58,066 190,966	-
Health and Human Services	Direct	93.113	RES0247/0B RES024795B	NATE INST OF ENVIRON HEALTH SCI -NIH/PHS	111,603	-
Health and Human Services	Direct	93.113	RES024806B	NATE INST OF ENVIRON HEALTH SCI -NIH/PHS	203,432	
Health and Human Services	Direct	93.113	RES024966A	NATE INST OF ENVIRON HEALTH SCI -NIH/PHS	347,150	
Health and Human Services	Direct	93.113	RES025060A	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	44,442	
Health and Human Services	Direct	93.113	RES027353A	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	625,444	102,058
Health and Human Services	Direct	93.113	RES027418A	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	46,131	102,030
Health and Human Services	Direct	93.113	TES007255E	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	1,566	
Health and Human Services	Direct	93.113	UES026119A	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	861,869	156,313
Health and Human Services	Direct	93.121	1R03DE027429-01A1	NATL INST DENTAL & CRANIOFACIAL RESEARCH -NIH/PHS	111,982	130,313
Health and Human Services	Direct	93.121	7R01DE026125-03	NATL INST DENTAL & CRANIOFACIAL RESEARCH -NIH/PHS	454,334	246,346
Health and Human Services	Direct	93.121	RDE027108A	NATL INST DENTAL & CRANIOFACIAL RESEARCH -NIH/PHS	21,804	
Health and Human Services	Direct	93.136	5R01CE002682-04	CENTERS FOR DISEASE CONTROL AND PREVENTION	171,674	
Health and Human Services	Direct	93.143	NIH 5PA2ES004911-26S1	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	76,670	
Health and Human Services	Direct	93.143	NIH-5PA2ES004911-26	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	185,802	-
Health and Human Services	Direct	93.143	NIH-5PA2ES004911-26	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	142,963	-
Health and Human Services	Direct	93.143	NIH-5PA2ES004911-26	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	134,937	134,937
Health and Human Services	Direct	93.143	NIH-5PA2ES004911-26	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	127,885	-
Health and Human Services	Direct	93.143	NIH-5PA2ES004911-26	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	102,614	-
Health and Human Services	Direct	93.143	NIH-5PA2ES004911-26	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	51,018	-
Health and Human Services	Direct	93.143	NIH-5PA2ES004911-26	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	47,403	-
Health and Human Services	Direct	93.143	NIH-5PA2ES004911-26	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	36,060	-
Health and Human Services	Direct	93.143	NIH-5PA2ES004911-26	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	16,070	-
Health and Human Services	Direct	93.143	NIH-5PA2ES004911-26S1	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	130,028	-
Health and Human Services	Direct	93.143	NIH-5PA2ES004911-26S1	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	102,403	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	147,349	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	139,043	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	131,371	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	108,872	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	101,264	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	65,235	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	54,448	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	33,481	33,481
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	30,293	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	24,807	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	22,273	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	9,044	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	7,202	7,202
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	5,979	-
Health and Human Services	Direct	93.143	PES004911F	NATL INST OF ENVIRON HEALTH SCI -NIH/PHS	(35,136)	-
Health and Human Services	Direct	93.172	NIH-5R01HG007060-03	NATL HUMAN GENOME RESEARCH INST -NIH/PHS	(18)	-
Health and Human Services	Direct	93.173	1K01DC017751-01	NATL INST DEAFNESS & COMMUNICATION DISORDERS -NIH/PHS	27,661	-
Health and Human Services	Direct	93.173	1R21DC017227-01	NATL INST DEAFNESS & COMMUNICATION DISORDERS -NIH/PHS	101,781	24,457
Health and Human Services	Direct	93.173	5R01DC012315-04	NATL INST DEAFNESS & COMMUNICATION DISORDERS -NIH/PHS	235,752	90,531
Health and Human Services	Direct	93.173	5R21DC015550-02	NATL INST DEAFNESS & COMMUNICATION DISORDERS -NIH/PHS	163,401	-
Health and Human Services	Direct	93.173	5R21DC016102-02	NATL INST DEAFNESS & COMMUNICATION DISORDERS -NIH/PHS	108,843	-
Health and Human Services	Direct	93.213	1K99AT009156-01A1	NATL CTR COMPLEMENTARY & INTEGRATIVE HEALTH -NIH/PHS	(430)	-
Health and Human Services	Direct	93.213	3U19AT006057-01A1S1	NATL CTR COMPLEMENTARY & INTEGRATIVE HEALTH -NIH/PHS	65,073	-
Health and Human Services	Direct	93.213	4R00AT009156-03	NATL CTR COMPLEMENTARY & INTEGRATIVE HEALTH -NIH/PHS	30,581	-
Health and Human Services	Direct	93.213	5F32AT008761-03	NATL CTR COMPLEMENTARY & INTEGRATIVE HEALTH -NIH/PHS	10,090	
Health and Human Services	Direct	93.213	5R01AT007695-05	NATL CTR COMPLEMENTARY & INTEGRATIVE HEALTH -NIH/PHS	(33,658)	32,124
Health and Human Services	Direct	93.226	5R18HS020208-05	AGENCY FOR HEALTHCARE RSCH & QUAL -PHS	(743)	
Health and Human Services	Direct	93.226	RHS025386A	AGENCY FOR HEALTHCARE RSCH & QUAL -PHS	263,126	39,558
Health and Human Services	Direct	93.242	1R01MH119149-01	NATL INST OF MENTAL HEALTH - NIH/PHS	70,652	-
Health and Human Services	Direct	93.242	1RF1MH117802-01	NATL INST OF MENTAL HEALTH - NIH/PHS	228,745	-
Health and Human Services	Direct	93.242	1UG3MH114249-01	NATL INST OF MENTAL HEALTH - NIH/PHS	7,868	-
Health and Human Services Health and Human Services	Direct Direct	93.242 93.242	3U01MH106660-04S1 5R1GM125991	NATL INST OF MENTAL HEALTH - NIH/PHS NATL INST OF MENTAL HEALTH - NIH/PHS	128,161 587,767	- 154,957
Health and Human Services Health and Human Services	Direct	93.242	R00MH110665	NATE INST OF MENTAL HEALTH - NIH/PHS  NATE INST OF MENTAL HEALTH - NIH/PHS	42,749	154,95/
				NATE INST OF MENTAL HEALTH - NIH/PHS  NATE INST OF MENTAL HEALTH - NIH/PHS		-
Health and Human Services Health and Human Services	Direct Direct	93.242 93.242	R01MH108511 R01MH111715	NATE INST OF MENTAL HEALTH - NIH/PHS NATE INST OF MENTAL HEALTH - NIH/PHS	26,242 68,148	-
Health and Human Services	Direct	93.242	R01MH112644	NATE INST OF MENTAL HEALTH - NIH/PHS	312,645	30,262
Health and Human Services	Direct	93.242	R01MH118848	NATL INST OF MENTAL HEALTH - NIH/PHS	12,242	30,202
Health and Human Services	Direct	93.242	RHD083058A	NATE INST OF MENTAL HEALTH - NIH/PHS	349,142	-
Health and Human Services	Direct	93.242	RMH108511A	NATL INST OF MENTAL HEALTH - NIH/PHS	629,344	60,813
Health and Human Services	Direct	93.242	RMH111276A	NATE INST OF MENTAL HEALTH - NIH/PHS	351,333	-
Health and Human Services	Direct	93.242	RMH111604A	NATL INST OF MENTAL HEALTH - NIH/PHS	388,272	-
Health and Human Services	Direct	93.242	RMH111715A	NATL INST OF MENTAL HEALTH - NIH/PHS	712,613	6,754
Health and Human Services	Direct	93.242	UH3MH114249	NATL INST OF MENTAL HEALTH - NIH/PHS	332,220	220,137
Health and Human Services	Direct	93.242	UMH106660A	NATL INST OF MENTAL HEALTH - NIH/PHS	1,607,691	1,013,188
Health and Human Services	Direct	93.262	1U60OH010892-01A1	NATL INST OCCUP SAFETY &HEALTH -CDC	169,798	20,000
Health and Human Services	Direct	93.262	CDC 0084660H15	NATL INST OCCUP SAFETY &HEALTH -CDC	680,086	135,470
Health and Human Services	Direct	93.273	1R01AA026057	NATL INST ALCOHOL ABUSE & ALCOHOLISM -NIH/PHS	114,852	50,981
Health and Human Services	Direct	93.273	1R21AA026674-01A1	NATL INST ALCOHOL ABUSE & ALCOHOLISM -NIH/PHS	36,547	
Health and Human Services	Direct	93.273	5R03AA024288-02	NATL INST ALCOHOL ABUSE & ALCOHOLISM -NIH/PHS	47,957	-
Health and Human Services	Direct	93.279	1R01DA047180-01	NATL INST ON DRUG ABUSE -NIH/PHS	134,243	-
Health and Human Services	Direct	93.279	5R25DA030310-05	NATL INST ON DRUG ABUSE -NIH/PHS	321,620	107,047
Health and Human Services	Direct	93.279	FDA042502A	NATL INST ON DRUG ABUSE -NIH/PHS	5,908	-
Health and Human Services	Direct	93.279	R01DA039112	NATL INST ON DRUG ABUSE -NIH/PHS	530,374	213,045
Health and Human Services	Direct	93.279	RDA037271B	NATL INST ON DRUG ABUSE -NIH/PHS	284,920	,9
Health and Human Services	Direct	93.279	RDA039895A	NATL INST ON DRUG ABUSE -NIH/PHS	405,809	-
Health and Human Services	Direct	93.279	RDA043501A	NATL INST ON DRUG ABUSE -NIH/PHS	276,115	-
Health and Human Services	Direct	93.279	TDA021129C	NATL INST ON DRUG ABUSE -NIH/PHS	8,578	-
Health and Human Services	Direct	93.286	1R21EB023051-01A1	NATL INST BIOMEDICAL IMAGING & BIOENGINEERING - NIH/PHS	220,549	-
Health and Human Services	Direct	93.286	2R01EB01207	NATL INST BIOMEDICAL IMAGING & BIOENGINEERING - NIH/PHS	88,909	-
Health and Human Services	Direct	93.286	5R00EB016753-04 Revised	NATL INST BIOMEDICAL IMAGING & BIOENGINEERING - NIH/PHS	143,713	-
Health and Human Services	Direct	93.286	UEB018818A	NATL INST BIOMEDICAL IMAGING & BIOENGINEERING - NIH/PHS	593,830	391,878
Health and Human Services	Direct	93.307	5U54MD011227-02S1	NATL INSTITUTE ON MINORITY HEALTH AND HEALTH DISPARITIES	110,112	-

					rear Ended	Julie 30, 2019	
	Direct/	CFDA			Total	Subaward	
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments	
Research and Development Cluster							
(continued):  Health and Human Services	Direct	93.307	UMD011227A	NATL INSTITUTE ON MINORITY HEALTH AND HEALTH DISPARITIES	\$ 2,759,207	\$ 240,506	
Health and Human Services	Direct	93.310	5UG3OD0232	NATL INST OF HEALTH - NIH/PHS	1,221,939	999,104	
Health and Human Services	Direct	93.310	DOD020320A	NATL INST OF HEALTH - NIH/PHS	293,341	-	
Health and Human Services	Direct	93.310	UH3OD023285-03	NATL INST OF HEALTH - NIH/PHS	1,836,386	781,065	
Health and Human Services	Direct	93.350	7R21TR001743-02	NATL CTR ADVANCING TRANSLATIONAL SCIENCES -NIH/PHS	448,947	200,996	
Health and Human Services	Direct	93.351	5R010D012206-04	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	(520)	-	
Health and Human Services Health and Human Services	Direct Direct	93.351 93.351	5R24OD012221-15 Revised ROD012091D	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	(2,038)	-	
Health and Human Services	Direct	93.351	ROD012231E	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	66,500 1		
Health and Human Services	Direct	93.351	ROD016534A	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	294,690	68,202	
Health and Human Services	Direct	93.361	1R21NR015589-01A1	NATL INSTITUTE OF NURSING RESEARCH -NIH/PHS	141,369	32,838	
Health and Human Services	Direct	93.361	7R01NR014484-04	NATL INSTITUTE OF NURSING RESEARCH -NIH/PHS	78,281	18,320	
Health and Human Services	Direct	93.361	R00NR017191	NATL INSTITUTE OF NURSING RESEARCH -NIH/PHS	42,012	-	
Health and Human Services	Direct	93.393	1R01CA225105	NATL CANCER INSTITUTE -NIH/PHS	304,341	-	
Health and Human Services	Direct	93.393	1R01CA226690-01A1	NATL CANCER INSTITUTE -NIH/PHS	10,134	-	
Health and Human Services	Direct	93.393	1R21CA226579-01A1	NATL CANCER INSTITUTE -NIH/PHS	97,510	-	
Health and Human Services Health and Human Services	Direct Direct	93.393 93.393	5R00CA177868-03 RCA175088B	NATL CANCER INSTITUTE -NIH/PHS NATL CANCER INSTITUTE -NIH/PHS	39,552 14,925	-	
Health and Human Services	Direct	93.394	7R01CA135650-09	NATE CANCER INSTITUTE -NIH/PHS	571,197	329,076	
Health and Human Services	Direct	93.394	7R01CA182043-04	NATL CANCER INSTITUTE -NIH/PHS	611,740	323,070	
Health and Human Services	Direct	93.395	1R21CA216867-01A1	NATL CANCER INSTITUTE -NIH/PHS	139,274		
Health and Human Services	Direct	93.395	1R21CA240875-01	NATL CANCER INSTITUTE -NIH/PHS	13,202	-	
Health and Human Services	Direct	93.395	RCA193706A	NATL CANCER INSTITUTE -NIH/PHS	653,094	229,901	
Health and Human Services	Direct	93.396	7R01CA197398	NATL CANCER INSTITUTE -NIH/PHS	505,186	242,524	
Health and Human Services	Direct	93.396	R01CA172895	NATL CANCER INSTITUTE -NIH/PHS	367,672	164,071	
Health and Human Services	Direct	93.396	RCA188305A	NATL CANCER INSTITUTE -NIH/PHS	264,890	-	
Health and Human Services	Direct	93.398	1F31CA232555-01 5K22CA188149-03	NATL CANCER INSTITUTE -NIH/PHS	25,148	-	
Health and Human Services Health and Human Services	Direct Direct	93.398 93.398	5K22CA188149-03 5T32OD011167-14	NATL CANCER INSTITUTE -NIH/PHS NATL CANCER INSTITUTE -NIH/PHS	21,767 19,933		
Health and Human Services	Direct	93.398	5T32OD011167-15	NATL CANCER INSTITUTE -NIH/PHS	44,540		
Health and Human Services	Direct	93.398	FCA212221A	NATE CANCER INSTITUTE -NIH/PHS	4,826	-	
Health and Human Services	Direct	93.837	1F31HL143937-01	NATL HEART LUNG BLOOD INST -NIH/PHS	23,788	-	
Health and Human Services	Direct	93.837	2R25HL108864-06A1	NATL HEART LUNG BLOOD INST -NIH/PHS	206,304	-	
Health and Human Services	Direct	93.837	4RO0HL121073-03	NATL HEART LUNG BLOOD INST -NIH/PHS	194,256	-	
Health and Human Services	Direct	93.837	5R00HL121160-05	NATL HEART LUNG BLOOD INST -NIH/PHS	269,578	-	
Health and Human Services	Direct	93.837	5R01HL117847-03	NATL HEART LUNG BLOOD INST -NIH/PHS	129,106	-	
Health and Human Services	Direct	93.837	7K01HL135464-03	NATL HEART LUNG BLOOD INST -NIH/PHS	238,751	-	
Health and Human Services Health and Human Services	Direct Direct	93.837 93.837	I RHL140319A KHL128843A	NATL HEART LUNG BLOOD INST -NIH/PHS NATL HEART LUNG BLOOD INST -NIH/PHS	12,424 156,003	-	
Health and Human Services	Direct	93.837	PHL070687C	NATL HEART LUNG BLOOD INST -NIH/PHS	381,125		
Health and Human Services	Direct	93.837	PHL070687C	NATL HEART LUNG BLOOD INST -NIH/PHS	225,791	-	
Health and Human Services	Direct	93.837	PHL070687C	NATL HEART LUNG BLOOD INST -NIH/PHS	196,765		
Health and Human Services	Direct	93.837	PHL070687C	NATL HEART LUNG BLOOD INST -NIH/PHS	168,482	-	
Health and Human Services	Direct	93.837	PHL070687C	NATL HEART LUNG BLOOD INST -NIH/PHS	118,109	-	
Health and Human Services	Direct	93.837	PHL070687C	NATL HEART LUNG BLOOD INST -NIH/PHS	97,868	-	
Health and Human Services	Direct	93.837	PHL070687C	NATL HEART LUNG BLOOD INST -NIH/PHS	43,621	-	
Health and Human Services	Direct	93.837	R56HL109327	NATL HEART LUNG BLOOD INST -NIH/PHS	48,111	-	
Health and Human Services Health and Human Services	Direct Direct	93.837 93.837	RHL103156B RHL117847A	NATL HEART LUNG BLOOD INST -NIH/PHS NATL HEART LUNG BLOOD INST -NIH/PHS	96,763 (851)	-	
Health and Human Services	Direct	93.837	RHL122223B	NATE HEART LUNG BLOOD INST -NIH/PHS	213,540		
Health and Human Services	Direct	93.837	RHL128628B	NATE HEART LUNG BLOOD INST -NIH/PHS	223,713	_	
Health and Human Services	Direct	93.837	RHL130624A	NATL HEART LUNG BLOOD INST -NIH/PHS	646,519	562,498	
Health and Human Services	Direct	93.837	RHL134841A	NATL HEART LUNG BLOOD INST -NIH/PHS	617,843	501,445	
Health and Human Services	Direct	93.837	RHL137694A	NATL HEART LUNG BLOOD INST -NIH/PHS	635,956	32,380	
				NATL INST ARTHRITIS & MUSCULOSKELETAL & SKIN DISEASES			
Health and Human Services	Direct	93.846	1F30AR071201-01A1	- NIH/PHS	39,973	-	
Health and Human Services	Direct	93.847	1R01DK108798-01A1	NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	375,874	-	
Health and Human Services Health and Human Services	Direct	93.847	1R01DK112695		248,519	-	
Health and Human Services	Direct Direct	93.847 93.847	3R01DK108798-02S1 3R01DK110665-02S1	NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	64,247 92,041		
Health and Human Services	Direct	93.847	5R01DK073566 - 09	NATE INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	14,836		
Health and Human Services	Direct	93.847	5R01DK101050-03	NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	(8,244)		
Health and Human Services	Direct	93.847	7K01DK103840-05	NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	44,775	-	
Health and Human Services	Direct	93.847	FDK107163A	NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	37,427	-	
Health and Human Services	Direct	93.847	RDK103723A	NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	559,239	47,080	
Health and Human Services	Direct	93.847	RDK103759A	NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	212,149	61,884	
Health and Human Services	Direct	93.847	RDK103808A	NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	240,288	-	
Health and Human Services Health and Human Services	Direct Direct	93.847 93.847	RDK105099A RDK105468B	NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	269,191 531 987	22,450	
Health and Human Services Health and Human Services	Direct	93.847	RDK105468B RDK105503B	NATE INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS NATE INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	531,987 504,380	334,510 375,183	
Health and Human Services Health and Human Services	Direct	93.847	RDK105503B RDK107697A	NATE INSTITUTE DIGESTIVE & KIDNEY DISEASES - NIH/PHS NATE INSTITUTE DIGESTIVE & KIDNEY DISEASES - NIH/PHS	451,608	375,183 37,559	
Health and Human Services	Direct	93.847	RDK110665A	NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	392,608	58,901	
Health and Human Services	Direct	93.847	RDK111475A	NATL INST DIABETES DIGESTIVE & KIDNEY DISEASES -NIH/PHS	355,996	,	
Health and Human Services	Direct	93.853	1R01NS104306-01	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	298,970	-	
Health and Human Services	Direct	93.853	1R01NS107451-01A1	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	122,726	-	
Health and Human Services	Direct	93.853	1R21NS099416-01A1	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	36,416	14,756	
Health and Human Services	Direct	93.853	1R21NS099632-01	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	82,882	-	
Health and Human Services	Direct	93.853	5R00NS096108	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	160,885	-	
Health and Human Services	Direct	93.853 93.853	5R03NS095202-02 5R21NS090107-02	NATL INST NEURO DISORDERS & STROKE -NIH/PHS NATL INST NEURO DISORDERS & STROKE -NIH/PHS	(1,621)	-	
Health and Human Services Health and Human Services	Direct Direct	93.853	5R21NS094900-02 Revised	NATE INST NEURO DISORDERS & STROKE -NIH/PHS	(844) 33,173	-	
Health and Human Services Health and Human Services	Direct	93.853	5R21NS094900-02 Revised 5R21NS096637-02	NATE INST NEURO DISORDERS & STROKE -NIH/PHS NATE INST NEURO DISORDERS & STROKE -NIH/PHS	33,173 271,183	227,204	
Health and Human Services	Direct	93.853	5R21NS098079-02	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	118,313	80,104	
Health and Human Services	Direct	93.853	FNS090866A	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	17,895	,	
Health and Human Services	Direct	93.853	R01NS105826	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	147,399	-	
Health and Human Services	Direct	93.853	R01NS110398	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	236,383	-	
Health and Human Services	Direct	93.853	R21NS098173-S1	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	56,286	-	
Health and Human Services	Direct	93.853	R33NS099416	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	302,202	16,904	
Health and Human Services	Direct	93.853	RNS045195D	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	274,000	-	
Health and Human Services	Direct	93.853	RNS072171C	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	217,850	17,330	
Health and Human Services	Direct	93.853	RNS090989A	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	310,413	-	
Health and Human Services	Direct	93.853	RNS094460A	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	503,667	300,470	
Health and Human Services Health and Human Services	Direct Direct	93.853 93.853	RNS095656A (P) RNS098173A	NATL INST NEURO DISORDERS & STROKE -NIH/PHS NATL INST NEURO DISORDERS & STROKE -NIH/PHS	776 40,690	-	
Health and Human Services Health and Human Services	Direct	93.853	RNS098173A RNS098231A	NATE INST NEURO DISORDERS & STROKE -NIH/PHS NATE INST NEURO DISORDERS & STROKE -NIH/PHS	639,176	4,959	
Health and Human Services Health and Human Services	Direct	93.853	RNS105888A	NATE INST NEURO DISORDERS & STROKE -NIH/PHS NATE INST NEURO DISORDERS & STROKE -NIH/PHS	400,504	4,959 92,801	
Health and Human Services	Direct	93.853	TNS044928C	NATE INST NEURO DISORDERS & STROKE -NIH/PHS	7,333	-	
					.,555		

### Schedule of Expenditures of Federal Awards (Continued)

Year Ended June 30, 2019

					rear Ended C	Julie 30, 2019
	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster						
(continued):						
Health and Human Services	Direct	93.853	TNS044928C	NATL INST NEURO DISORDERS & STROKE -NIH/PHS	\$ (8,205)	\$ -
Health and Human Services	Direct	93.855	1R01Al121178-01A1	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	132,107	-
Health and Human Services Health and Human Services	Direct Direct	93.855 93.855	1R01AI121178-01A1 1R01AI147634-01	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	125,270 1,789	
Health and Human Services	Direct	93.855	1R21AI138707-01	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	62,750	
Health and Human Services	Direct	93.855	1R21AI138707-01 1R21AI138707-01	NATE INST OF ALLERGY & INFEC DISEASE -NIH/PHS	63,830	
Health and Human Services	Direct	93.855	1R21Al140413-01A1	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	121,890	-
Health and Human Services	Direct	93.855	1R21AI144395-01	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	14,062	
Health and Human Services	Direct	93.855	1R21AI144395-01	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	8,530	-
Health and Human Services	Direct	93.855	1R21Al144504-01	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	34,984	
Health and Human Services	Direct	93.855	1U01Al126610-01	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	(39)	
Health and Human Services	Direct	93.855	4R01AI048758-17	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	32,999	-
Health and Human Services	Direct	93.855	5R01AI113257-04	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	236,605	38,377
Health and Human Services	Direct	93.855	5R01AI120189-03	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	227,012	
Health and Human Services	Direct	93.855	5R21AI111192-03	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	143,196	-
Health and Human Services	Direct	93.855	5R21AI121748-02	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	82,369	-
Health and Human Services	Direct	93.855	5R21AI122808-02	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	42,675	-
Health and Human Services	Direct	93.855	5R21AI122863-02	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	52,318	-
Health and Human Services	Direct	93.855	5R21AI126359-02	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	125,778	-
Health and Human Services	Direct	93.855	5R21AI17018-02	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	64,597	-
Health and Human Services	Direct	93.855	5R37AI021884 - 32	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	124,818	-
Health and Human Services	Direct	93.855	R01AI047153-16A1	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	270,563	-
Health and Human Services	Direct	93.855	R01Al139039	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	98,873	-
Health and Human Services	Direct	93.855	R21AI138345	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	80,677	-
Health and Human Services	Direct	93.855	R21Al142517	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	83,843	-
Health and Human Services	Direct	93.855	RAI047153D	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	6,781	
Health and Human Services	Direct	93.855	RAI116605A	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	438,615	70,281
Health and Human Services	Direct	93.855	RAI117018A	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	39,856	-
Health and Human Services	Direct	93.855	RAI130554A	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	20,963	-
Health and Human Services Health and Human Services	Direct	93.855	RAI133094A	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	151,643	75,600
	Direct	93.855	RAI139074A		59,781	- 5,487
Health and Human Services	Direct Direct	93.855 93.855	RAI140258A RAI21178A	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	32,232	5,487
Health and Human Services Health and Human Services	Direct	93.855	UAI089683C	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	392,778	1,112,971
Health and Human Services	Direct	93.855	UAI126610A	NATL INST OF ALLERGY & INFEC DISEASE -NIH/PHS	1,592,939 1,548,451	1,248,412
Health and Human Services	Direct	93.859	1F30GM123632-01A1	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	41,266	1,240,412
Health and Human Services	Direct	93.859	1R01GM121499	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	281,818	
Health and Human Services	Direct	93.859	1R01GM124137	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	388,977	
Health and Human Services	Direct	93.859	1R01GM125743-01	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	309,991	
Health and Human Services	Direct	93.859	1R01GM127431-01	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	283,531	24,842
Health and Human Services	Direct	93.859	1R25GM116761	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	188,069	
Health and Human Services	Direct	93.859	1R35GM126948-01	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	317,783	
Health and Human Services	Direct	93.859	1R35GM128765-01	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	227,961	
Health and Human Services	Direct	93.859	2T32GM092715-08	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	155,009	
Health and Human Services	Direct	93.859	4R01GM100908-05	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	63,264	
Health and Human Services	Direct	93.859	4R01GM101353 - 04	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	14,764	-
Health and Human Services	Direct	93.859	5R01GM026916-35	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	81	-
Health and Human Services	Direct	93.859	5R01GM084953-08	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	180,529	-
Health and Human Services	Direct	93.859	5R01GM101219-06	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	204,597	-
Health and Human Services	Direct	93.859	5R01GM101386-04	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	41	-
Health and Human Services	Direct	93.859	5R01GM104009-04	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	548,100	-
Health and Human Services	Direct	93.859	5R01GM110195-03	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	12,472	-
Health and Human Services	Direct	93.859	5R25GM115335	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	21,342	-
Health and Human Services	Direct	93.859	5R25GM115335-03	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	66,327	12,268
Health and Human Services	Direct	93.859	5T32GM092715-07	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	17,708	-
Health and Human Services	Direct	93.859	5T32GM110523-04	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	37,718	-
Health and Human Services	Direct	93.859	5T32GM110523-05	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	144,049	-
Health and Human Services	Direct	93.859	7F32GM128283-02	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	2,096	-
Health and Human Services	Direct	93.859	R00GM120386	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	294,900	-
Health and Human Services	Direct	93.859	R01 GM129004	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	90,725	-
Health and Human Services	Direct	93.859	R01GM043585	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	472,507	-
Health and Human Services Health and Human Services	Direct Direct	93.859 93.859	R01GM122085 R01GM125991	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	74,339 273,523	39,671
Health and Human Services	Direct	93.859	R01GM125991 R01GM125991	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS  NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS		39,071
Health and Human Services	Direct	93.859	R01GM125351 R01GM126189	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	35,313 19,379	
Health and Human Services	Direct	93.859	R01GM130794	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	328,747	
Health and Human Services	Direct	93.859	R01GM131398	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	79,441	
Health and Human Services	Direct	93.859	R01GM131398	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	12,362	
Health and Human Services	Direct	93.859	RGM063188D	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	304,521	
Health and Human Services	Direct	93.859	RGM072667D	NATE INST GENERAL MEDICAL SCIENCES -NIH/PHS	130,289	81,343
Health and Human Services	Direct	93.859	RGM094534B	NATE INST GENERAL MEDICAL SCIENCES -NIH/PHS	422,296	175,290
Health and Human Services	Direct	93.859	RGM101038B	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	348,835	31,658
Health and Human Services	Direct	93.859	RGM108593A	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	153,620	32,263
Health and Human Services	Direct	93.859	RGM109259A	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	403,517	116,382
Health and Human Services	Direct	93.859	RGM109928A	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	67,835	-
Health and Human Services	Direct	93.859	RGM110185A	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	315,719	-
Health and Human Services	Direct	93.859	RGM110525A	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	209,359	-
Health and Human Services	Direct	93.859	RGM115373A	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	310,857	-
Health and Human Services	Direct	93.859	RGM115459A	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	254,582	123,707
Health and Human Services	Direct	93.859	RGM115475A	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	191,073	-
Health and Human Services	Direct	93.859	RGM118685A	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	286,253	-
Health and Human Services	Direct	93.859	RGM122085A	NATL INST GENERAL MEDICAL SCIENCES -NIH/PHS	307,625	202,001
Health and Human Services	Direct	93.865	1R01HD094842-01	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	375,133	95,613
Health and Human Services	Direct	93.865	1R01HD098027-01	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	60,639	-
Health and Human Services	Direct	93.865	1R03HD097085-01-L	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	6,458	-
Health and Human Services	Direct	93.865	1R21HD083058-01A1	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	98,956	-
Health and Human Services	Direct	93.865	1R21HD090406	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	218,345	40,501
Health and Human Services	Direct	93.865	1T32HD087166-01	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	184,414	-
Health and Human Services	Direct	93.865	1T32HD087166-01	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	2,897	-
Health and Human Services	Direct	93.865	1T32HD087166-02	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	148,264	-
Health and Human Services	Direct	93.865	2R01HD042280-10A1	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	370,793	30,238
Health and Human Services	Direct	93.865	3R21HD088169-02S1	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	102,206	52,101
Health and Human Services	Direct	93.865	5R01HD064416-05	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	97	-
Health and Human Services	Direct	93.865	5R01HD070723-05	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	4,331	5,449
Health and Human Services	Direct	93.865	5R01HD072489-05	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	(5)	-
Health and Human Services	Direct	93.865	5R01HD072968-05 Revised	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	(6)	46 323
Health and Human Services	Direct	93.865	5R21HD085138-02	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	58,405	16,332

	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster (continued):						
Health and Human Services	Direct	93.865	R00HD084759	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	\$ 185,526	\$ -
Health and Human Services	Direct	93.865	R01HD095371-01	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	172,513	-
Health and Human Services Health and Human Services	Direct Direct	93.865 93.865	R03 HD09614 R03HD091640(	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	24,877 57,713	4,220
Health and Human Services	Direct	93.865	RHD070723A	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	10,693	7,690
Health and Human Services	Direct	93.865	RHD075903A	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	128,537	16,823
Health and Human Services	Direct	93.865	RHD083273A	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	408,073	-
Health and Human Services	Direct	93.865	RHD084377A	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	567,129	185,177
Health and Human Services Health and Human Services	Direct Direct	93.865 93.865	RHD084478A RHD084494A	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	343,446 225,934	-
Health and Human Services	Direct	93.865	RHD085990A	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	802,101	326,932
Health and Human Services	Direct	93.865	RHD086062B	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	403,412	-
Health and Human Services	Direct	93.865	RHD088169A	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	179,849	102,557
Health and Human Services	Direct	93.865	RHD091429A	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	196,113	-
Health and Human Services	Direct	93.865	RHD093334A	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	705,865	437,843
Health and Human Services	Direct	93.866	1 RO1 AG 062217-01	NATL INST ON AGING -NIH/PHS	269,887	-
Health and Human Services Health and Human Services	Direct Direct	93.866 93.866	1R01AG062435-01 1RA56AG0523328-01A1	NATL INST ON AGING -NIH/PHS NATL INST ON AGING -NIH/PHS	6,036 79,777	73,242
Health and Human Services	Direct	93.866	5K01AG043417-03	NATL INST ON AGING -NIH/PHS	76,024	75,242
Health and Human Services	Direct	93.866	5R01AG040715-05	NATL INST ON AGING -NIH/PHS	19,393	-
Health and Human Services	Direct	93.866	5R21AG051820-02	NATL INST ON AGING -NIH/PHS	65,945	46,597
Health and Human Services	Direct	93.866	5R21AG053581-02	NATL INST ON AGING -NIH/PHS	179,173	-
Health and Human Services	Direct	93.866	7R01AG051500-3	NATL INST ON AGING -NIH/PHS	717,181	263,547
Health and Human Services	Direct	93.866	R01AG060731	NATL INST ON AGING -NIH/PHS	63,223	-
Health and Human Services	Direct Direct	93.866 93.866	R21AG054960	NATL INST ON AGING -NIH/PHS NATL INST ON AGING -NIH/PHS	381,881	43,089
Health and Human Services Health and Human Services	Direct	93.866	R21AG057951 RAG044372A	NATE INST ON AGING -NIH/PHS NATE INST ON AGING -NIH/PHS	145,119 255,104	30,950
Health and Human Services	Direct	93.866	RAG054705A	NATL INST ON AGING -NIH/PHS	67,050	-
Health and Human Services	Direct	93.867	1F32EY028426-01A1	NATL EYE INSTITUTE -NIH/PHS	60,159	-
Health and Human Services	Direct	93.867	2T35OD016477-16	NATL EYE INSTITUTE -NIH/PHS	50,436	-
Health and Human Services	Direct	93.867	4R01EY022727-05	NATL EYE INSTITUTE -NIH/PHS	(6,485)	-
Health and Human Services	Direct	93.867	5R01EY016077	NATL EYE INSTITUTE -NIH/PHS	20,281	-
Health and Human Services	Direct	93.867	5T35OD016477-17	NATL EYE INSTITUTE -NIH/PHS	41,515	-
Health and Human Services	Direct	93.867	FEY030029A	NATL EYE INSTITUTE -NIH/PHS	12,876	- 54.010
Health and Human Services Health and Human Services	Direct Direct	93.867 93.867	REY016077C REY025752A	NATL EYE INSTITUTE -NIH/PHS NATL EYE INSTITUTE -NIH/PHS	383,921 709,836	54,019 199,565
Health and Human Services	Direct	93.867	REY027285A	NATL EYE INSTITUTE -NIH/PHS	1,470,703	735,264
Health and Human Services	Direct	93.867	REY028049A	NATL EYE INSTITUTE -NIH/PHS	389,471	-
Health and Human Services	Direct	93.879	RLM012848A	NATIONAL LIBRARY OF MEDICINE - NIH/PHS	230,209	-
Health and Human Services	Direct	93.989	1R21TW010896	FOGARTY INTERNATIONAL CENTER - NIH/PHS	189,858	145,851
	Direct Tot	al			72,346,683	15,907,238
Health and Human Services	Pass-through	93	BCHS/MSU FY19	MICH DEPT OF LICENSING & REGULATORY AFFAIRS	244,209	81,110
Health and Human Services	Pass-through	93	E1A11	NRG ONCOLOGY	1,815	-
Health and Human Services	Pass-through	93.000	E20192723-00-AI	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	235,726	-
Health and Human Services	Pass-through	93.000 93	E20192772-00-AH	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES NRG ONCOLOGY	370,613	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93	NCT02775383 PROTOCOL S1207	NRG ONCOLOGY NRG ONCOLOGY	19,711 288	
Health and Human Services	Pass-through	93	R43AG060886	HESPEROS INC	14,875	_
Health and Human Services	Pass-through	93	S1418/BR006	NRG ONCOLOGY	5,245	
Health and Human Services	Pass-through	93.001	B-43	NRG ONCOLOGY	1,003	-
Health and Human Services	Pass-through	93.001	CLINICAL TRIAL	SOUTHWEST ONCOLOGY GROUP	51,123	-
Health and Human Services	Pass-through	93.070	E20180657-00-I	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	11,953	-
Health and Human Services	Pass-through	93.070	E20191311-00-I	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	23,569	-
Health and Human Services Health and Human Services	Pass-through	93.077 93.084	114970-5101334 723K866	HARVARD UNIVERSITY UNIVERSITY OF WISCONSIN	14,450 345,090	-
Health and Human Services	Pass-through Pass-through	93.110	SUBK00009095	UNIVERSITY OF WISCONSIN	2,554	
Health and Human Services	Pass-through	93.113	10009736-MSU01	BOWLING GREEN UNIVERSITY	15,767	
Health and Human Services	Pass-through	93.113	1009036	OREGON HEALTH SCIENCES UNIVERSITY	103,684	-
Health and Human Services	Pass-through	93.113	3004687116	UNIVERSITY OF MICHIGAN	23,231	-
Health and Human Services	Pass-through	93.113	3RBB7	UNIVERSITY OF NEW MEXICO	142,570	-
Health and Human Services	Pass-through	93.113	782K261	UNIVERSITY OF WISCONSIN - MADISON	11,800	-
Health and Human Services	Pass-through	93.113	796K305	UNIVERSITY OF WISCONSIN	37,592	24,253
Health and Human Services Health and Human Services	Pass-through Pass-through	93.113 93.117	WSU16078 18-3637	WAYNE STATE UNIVERSITY UNIVERSITY OF SOUTH CAROLINA	2,397 61,403	-
Health and Human Services	Pass-through	93.121	576283	PENNSYLVANIA STATE UNIVERSITY	25,105	_
Health and Human Services	Pass-through		S00426-01	UNIVERSITY OF IOWA	34,365	-
Health and Human Services	Pass-through	93.121	SUBK00008454	UNIVERSITY OF MICHIGAN	61,168	-
Health and Human Services	Pass-through		WSU19004	WAYNE STATE UNIVERSITY	50,473	-
Health and Human Services	Pass-through		0044466 (125619-1)	UNIVERSITY OF PITTSBURGH	82,486	-
Health and Human Services		93.173	17-0491	BRIGHAM YOUNG UNIVERSITY	24,877	-
Health and Human Services Health and Human Services	Pass-through	93.173 93.173	18-0527 3004138691	BRIGHAM YOUNG UNIVERSITY UNIVERSITY OF MICHIGAN	27,267	-
Health and Human Services	Pass-through Pass-through	93.173	3004138691	UNIVERSITY OF MICHIGAN	324,237 14,841	
Health and Human Services	Pass-through	93.173	60051342	OHIO STATE UNIVERSITY	163,818	
Health and Human Services	Pass-through	93.173	BL-4633518-MSU	INDIANA UNIVERSITY	76,804	-
Health and Human Services	Pass-through	93.173	VUMC56181	VANDERBILT UNIVERSITY	3,972	-
Health and Human Services	Pass-through	93.213	00001330	BROWN UNIVERSITY	4,150	-
Health and Human Services	Pass-through	93.226	FY17.688.002	UNIVERSITY OF COLORADO - DENVER	37,289	-
Health and Human Services	Pass-through	93.226	UWSC8138	UNIVERSITY OF WASHINGTON	44,045	-
Health and Human Services	Pass-through	93.242	0255-4061-4609	MOUNT SINAI MEDICAL CENTER	52,099	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93.242 93.242	18A0-00-1001852 3003210937	NEW YORK UNIVERSITY SCHOOL OF MEDICINE UNIVERSITY OF MICHIGAN	18,723 8,386	-
Health and Human Services	Pass-through	93.242	5003210937	BUTLER HOSPITAL	12,313	-
Health and Human Services	Pass-through	93.242	5110592	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	46,423	-
Health and Human Services	Pass-through	93.242	5-27105	SCRIPPS RESEARCH INST	12,463	-
Health and Human Services	Pass-through	93.242	5-27254	SCRIPPS RESEARCH INST	15,600	-
Health and Human Services	Dana Abana ab	93.242	FP00004867_SA001	VIRGINIA COMMONWEALTH UNIVERSITY	20,570	-
Hanlik and House Condess	Pass-through		Daring CARE	BROWN UNIVERSITY	27,233	-
Health and Human Services	Pass-through	93.242	Project CARE			
Health and Human Services	Pass-through Pass-through	93.242	WSU16128	WAYNE STATE UNIVERSITY	(8)	-
Health and Human Services Health and Human Services	Pass-through Pass-through Pass-through	93.242 93.243	WSU16128 192734-AWARE19	WAYNE STATE UNIVERSITY MICHIGAN DEPT OF EDUCATION	93,495	-
Health and Human Services Health and Human Services Health and Human Services	Pass-through Pass-through Pass-through Pass-through	93.242 93.243 93.262	WSU16128 192734-AWARE19 S00452-01	WAYNE STATE UNIVERSITY MICHIGAN DEPT OF EDUCATION UNIVERSITY OF IOWA	93,495 7,972	- - -
Health and Human Services Health and Human Services Health and Human Services Health and Human Services	Pass-through Pass-through Pass-through Pass-through Pass-through	93.242 93.243 93.262 93.273	WSU16128 192734-AWARE19 S00452-01 9053-8349	WAYNE STATE UNIVERSITY MICHIGAN DEPT OF EDUCATION UNIVERSITY OF IOWA BUTLER HOSPITAL	93,495 7,972 55,225	- - - -
Health and Human Services Health and Human Services Health and Human Services	Pass-through Pass-through Pass-through Pass-through	93.242 93.243 93.262 93.273 93.273	WSU16128 192734-AWARE19 S00452-01	WAYNE STATE UNIVERSITY MICHIGAN DEPT OF EDUCATION UNIVERSITY OF IOWA	93,495 7,972	- - - -
Health and Human Services	Pass-through Pass-through Pass-through Pass-through Pass-through Pass-through	93.242 93.243 93.262 93.273 93.273 93.279	WSU16128 192734-AWARE19 S00452-01 9053-8349 ORI 1R34AA024275-01	WAYNE STATE UNIVERSITY MICHIGAN DEPT OF EDUCATION UNIVERSITY OF IOWA BUTLER HOSPITAL OREGON RESEARCH INSTITUTE	93,495 7,972 55,225 70,181	- - - - - -

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	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster						
(continued):						
Health and Human Services	Pass-through	93.279	UTA17-000881	UNIVERSITY OF TEXAS AT AUSTIN		\$ -
Health and Human Services	Pass-through	93.286	2003719763	JOHNS HOPKINS UNIVERSITY	181,980	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93.307 93.307	057063-87D5 WSU17108	UNIVERSITY OF NEW MEXICO WAYNE STATE UNIVERSITY	17,073 21,436	-
Health and Human Services	Pass-through	93.310	5108608	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	26,750	
Health and Human Services	Pass-through	93.310	5111878	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	77,144	
Health and Human Services	Pass-through	93.310	68-1096430	CALIFORNIA INSTITUTE OF TECHNOLOGY	311,375	
Health and Human Services	Pass-through	93.310	706K672	UNIVERSITY OF WISCONSIN - MADISON	31,922	
Health and Human Services	Pass-through	93.310	SUB00001823	UNIVERSITY OF GEORGIA	28,530	
Health and Human Services	Pass-through	93.351	4102-83615	PURDUE UNIVERSITY	2,800	
Health and Human Services	Pass-through	93.351	App 143125	FREEZEBACK, LLC	323	
Health and Human Services	Pass-through	93.351	U-215720B	UNIVERSITY OF OREGON	146,688	
Health and Human Services	Pass-through	93.361	0000977827	FRED HUTCHINSON CANCER RESEARCH CENTER	2,073	
Health and Human Services	Pass-through	93.361	0255-3001-4609	MOUNT SINAI MEDICAL CENTER	2,984	
Health and Human Services	Pass-through	93.393	481270	ARIZONA STATE UNIVERSITY	28,679	-
Health and Human Services	Pass-through	93.394	228473	MASSACHUSETTS GENERAL HOSPITAL	12,724	-
Health and Human Services	Pass-through	93.395	233016	MASSACHUSETTS GENERAL HOSPITAL	287,100	-
Health and Human Services	Pass-through	93.395	450683	ARIZONA STATE UNIVERSITY	47,699	-
Health and Human Services	Pass-through	93.395	9500080216-13e	CHILDRENS HOSPITAL OF PHILADELPHIA	28,226	-
Health and Human Services	Pass-through	93.395	A021502	NRG ONCOLOGY	19	-
Health and Human Services	Pass-through	93.395	FP00017458 SUB40 01	CHILDRENS HOSPITAL OF PHILADELPHIA	1,983	-
Health and Human Services	Pass-through	93.397	16157	UNIVERSITY OF ILLINOIS - CHICAGO	2,022	-
Health and Human Services	Pass-through	93.397	36001068803	THE UNIVERSITY OF TEXAS MD ANDERSON CANCER CENTER	28,162	-
Health and Human Services	Pass-through	93.600	WSU17121	WAYNE STATE UNIVERSITY	31,126	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93.624 93.624	E20182361-00-AL E20182362-00-AM	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	210,957 219,399	-
Health and Human Services	-	93.624	E20192723-00-AIV	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	112.436	
Health and Human Services	Pass-through Pass-through	93.624	E20192772-00-AH	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	76,152	
Health and Human Services	Pass-through	93.799	E20180566-00-AA	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	176,822	113,304
Health and Human Services	Pass-through	93.810	E20180229-00-AB	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	4,125	113,304
Health and Human Services	Pass-through	93.810	E20180292-00-N	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	6,341	
Health and Human Services	Pass-through	93.810	E20192091-00-L	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	18,208	
Health and Human Services	Pass-through	93.810	E20192184-00-Y	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	23,725	
Health and Human Services	Pass-through	93.837	0001531091	CEDARS SINAI HEALTH SYSTEM	19,276	
Health and Human Services	Pass-through	93.837	3004463783	UNIVERSITY OF MICHIGAN	217,908	
Health and Human Services	Pass-through	93.837	3004463783	UNIVERSITY OF MICHIGAN	70,188	-
Health and Human Services	Pass-through	93.837	3004463783	UNIVERSITY OF MICHIGAN	(50,291)	-
Health and Human Services	Pass-through	93.837	3200001401-18-026	UNIVERSITY OF KENTUCKY	136,690	-
Health and Human Services	Pass-through	93.837	N003631001	UNIVERSITY OF MINNESOTA	16,795	-
Health and Human Services	Pass-through	93.837	OOS100311-MSU	KAISER PERMANENTE	14,796	-
Health and Human Services	Pass-through	93.837	WSU15107	WAYNE STATE UNIVERSITY	8,052	-
Health and Human Services	Pass-through	93.837	WU-19-133	WASHINGTON UNIVERSITY IN ST LOUIS	73,092	-
Health and Human Services	Pass-through	93.838	540544	UNIVERSITY OF MEMPHIS	86,041	-
Health and Human Services	Pass-through	93.838	540544	UNIVERSITY OF MEMPHIS	483	-
Health and Human Services	Pass-through	93.846	000514824-SP004-SC003	UNIVERSITY OF ALABAMA BIRMINGHAM	18,608	-
Health and Human Services	Pass-through	93.847	3003071149	UNIVERSITY OF MICHIGAN	(211)	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93.847 93.847	306065 60069375	CHILDRENS HOSPITAL OF CINCINNATI OHIO STATE UNIVERSITY	7,927 271	-
Health and Human Services	Pass-through	93.847	MD-15-A0-00-003649-01	NEW YORK UNIVERSITY SCHOOL OF MEDICINE	22,522	
Health and Human Services	Pass-through	93.847	MD-17-A1-00-007381-01	NEW YORK UNIVERSITY SCHOOL OF MEDICINE	24,399	
Health and Human Services	Pass-through	93.847	SUBK00010651	MDRC	16,984	
Health and Human Services	Pass-through	93.853	1(GG015025-01)	COLUMBIA UNIVERSITY	23,511	
Health and Human Services	Pass-through	93.853	3004548920	UNIVERSITY OF MICHIGAN	29,334	
Health and Human Services	Pass-through	93.853	416854	UNIVERSITY OF ROCHESTER	11,212	
Health and Human Services	Pass-through	93.853	417168	UNIVERSITY OF ROCHESTER	43,322	
Health and Human Services	Pass-through	93.853	60036745	NORTHWESTERN UNIVERSITY	2,951	-
Health and Human Services	Pass-through	93.853	7000000711	BAYLOR COLLEGE OF MEDICINE	50,416	-
Health and Human Services	Pass-through	93.853	7357	UNIVERSITY OF ILLINOIS - CHICAGO	305,343	-
Health and Human Services	Pass-through	93.853	PG18-61028-01	UNIVERSITY OF MONTANA	821	-
Health and Human Services	Pass-through	93.853	PG19-61068-01	UNIVERSITY OF MONTANA	33,129	-
Health and Human Services	Pass-through	93.853	PSG 186	MASSACHUSETTS GENERAL HOSPITAL	7,294	-
Health and Human Services	Pass-through	93.853	V3535-1	VAN ANDEL RESEARCH INSTITUTE	2,302	-
Health and Human Services	Pass-through	93.855	151062	UNIVERSITY OF PRETORIA	12	-
Health and Human Services	Pass-through	93.855	2(GG011631-02)	COLUMBIA UNIVERSITY	17,764	-
Health and Human Services Health and Human Services	Pass-through	93.855	2(GG011631-02)	COLUMBIA UNIVERSITY	2,419	-
Health and Human Services	Pass-through		2R44AI112164-03A1-MSU	VISIONQUEST BIOMEDICAL, LLC VISIONQUEST BIOMEDICAL, LLC	(12)	-
Health and Human Services Health and Human Services	Pass-through	93.855 93.855	2R44AI112164-05 3200000654-17-016	UNIVERSITY OF KENTUCKY	10,165 12,941	-
Health and Human Services	Pass-through	93.855	TSRL R41AI143098-01A1	THERAPEUTIC SYSTEMS RESEARCH LABORATORIES INC	6,974	-
Health and Human Services	Pass-through	93.855	U-540478	UNIVERSITY OF MEMPHIS	111,631	-
Health and Human Services	Pass-through		VUMC63296	VANDERBILT UNIVERSITY	138,737	-
Health and Human Services	Pass-through		00020791	QUANTUMBIO, INC.	23,158	-
Health and Human Services	Pass-through	93.859	0051314 (126984-2)	UNIVERSITY OF PITTSBURGH	64,056	-
Health and Human Services	Pass-through	93.859	0056117(129070-1)	UNIVERSITY OF PITTSBURGH	10,079	-
Health and Human Services	Pass-through	93.859	4500002876	BOSTON UNIVERSITY	9,642	-
Health and Human Services	Pass-through	93.859	60067850	OHIO STATE UNIVERSITY	40,278	-
Health and Human Services	Pass-through	93.859	F63600	CENTRAL MICHIGAN UNIVERSITY	8,234	-
Health and Human Services	Pass-through	93.859	SP00013312-01	GEORGIA STATE UNIV	70,861	-
Health and Human Services	Pass-through	93.865	5112242	UNIVERSITY OF NORTH CAROLINA	18,259	-
Health and Human Services	Pass-through	93.865	9922sc	CALIFORNIA AT SAN FRANCISCO - UNIV OF	65,064	-
Health and Human Services	Pass-through	93.865	GC-10075-00-05	DARTMOUTH HITCHCOCK MEDICAL CENTER	14,921	-
Health and Human Services	Pass-through	93.865	R-16-0019	UNIVERSITY OF HOUSTON	5,224	-
Health and Human Services	Pass-through		R866	TRUSTEES OF DARTMOUTH COLLEGE	10,790	-
Health and Human Services	Pass-through	93.865	RNG200543-02 (2680-2828)	KAISER PERMANENTE	13,078	-
Health and Human Services	Pass-through	93.865	SUBK00010325	UNIVERSITY OF MICHIGAN	10,666	-
Health and Human Services	Pass-through	93.865	VUMC67407	VANDERBILT UNIVERSITY	95,014	-
Health and Human Services Health and Human Services	Pass-through	93.865	WU-15-394 ZAC000A0	WASHINGTON UNIVERSITY IN ST LOUIS UNIV OF KANSAS MEDICAL CENTER RESEARCH INST INC	50,598	-
Health and Human Services Health and Human Services	Pass-through	93.865		CAYMAN CHEMICAL CO INC	8,145 118,099	-
Health and Human Services Health and Human Services	Pass-through	93.866	00326063 1032114-MSU	DIGNITY HEALTH	118,099	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93.866 93.866	160236	UNIV OF TEXAS SOUTHWESTERN MED	193,026	-
Health and Human Services	Pass-through	93.866	207041-02	GRAND VALLEY STATE UNIVERSITY	34,369	-
Health and Human Services	Pass-through	93.866	207042-01	GRAND VALLEY STATE UNIVERSITY	13,203	-
Health and Human Services	Pass-through	93.866	3003090374	UNIVERSITY OF MICHIGAN	80,732	-
Health and Human Services	Pass-through		3004127215	UNIVERSITY OF MICHIGAN	40,752	-
Health and Human Services	Pass-through		3004127215	UNIVERSITY OF MICHIGAN	(2,301)	-
Health and Human Services	Pass-through		3004657721	UNIVERSITY OF MICHIGAN	1,932	-
					,	

	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster (continued):						
Health and Human Services	Pass-through		6118-1080-00-A	SOUTH UNIVERSITY OF FLORIDA	\$ 100,048	\$ -
Health and Human Services	Pass-through	93.866	F-1136054-76472	RESEARCH FOUNDATION OF S.U.N.Y.	16,240	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93.866 93.866	FY2019-089 GMO 181212	UNIV OF KANSAS MEDICAL CENTER RESEARCH INST INC UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	7,589 51,070	-
Health and Human Services	Pass-through	93.866	H-1R44AG058330-01	HESPEROS INC	89,484	-
Health and Human Services	Pass-through	93.866	S-1R41AH058283-01	STARWISE THERAPEUTICS, LLC	179,464	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93.866 93.866	SUBK00007878 SUBK00007878	UNIVERSITY OF MICHIGAN UNIVERSITY OF MICHIGAN	20,987 19,995	-
Health and Human Services	Pass-through	93.866	SUBK00007878	UNIVERSITY OF MICHIGAN	7,941	-
Health and Human Services	Pass-through	93.866	SUBK00007977	UNIVERSITY OF MICHIGAN	112,833	-
Health and Human Services	Pass-through	93.866	SUBK00007977 SUBK00011103	UNIVERSITY OF MICHIGAN	20,221	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93.866 93.866	UTA18-000523	UNIVERSITY OF MICHIGAN UNIVERSITY OF TEXAS AT AUSTIN	922 14,037	-
Health and Human Services	Pass-through	93.867	000517565-003	UNIVERSITY OF ALABAMA BIRMINGHAM	138,205	-
Health and Human Services	Pass-through	93.867	000517565-003	UNIVERSITY OF ALABAMA BIRMINGHAM	632	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93.867 93.867	000518070-02 153768	UNIVERSITY OF ALABAMA BIRMINGHAM BIO TIME, INC.	5,515 254,578	-
Health and Human Services	Pass-through	93.867	4500002464	BOSTON UNIVERSITY	45,391	
Health and Human Services	Pass-through	93.867	RES512052	CASE WESTERN RESERVE UNIV	(8,792)	-
Health and Human Services	Pass-through	93.867	RES513081	CASE WESTERN RESERVE UNIV	80,529	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93.867 93.958	UCI-2019-3696 E20170238-00-F	UNIVERSITY OF CALIFORNIA IRVINE MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	246,340	-
Health and Human Services	Pass-through	93.958	E20180370-00-X	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	1,258 617	
Health and Human Services	Pass-through	93.958	E20182632-00-H	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	25,883	-
Health and Human Services	Pass-through	93.958	E20182633-00-V	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	14,311	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93.958 93.958	E20182634-00-AE E20182635-00-AQ	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	22,764 43,330	-
Health and Human Services	Pass-through		E20191310-00-H	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	67,861	_
Health and Human Services	Pass-through		E20191314-00-S	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	51,840	-
Health and Human Services	Pass-through	93.958	E20191315-00-AA	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	43,824	-
Health and Human Services Health and Human Services	Pass-through Pass-through	93.958 93.958	E20191320-00-AP E20192824-00-U	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	118,512 19,055	-
Health and Human Services	Pass-through	93.989	1600922	UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE	45,608	-
Health and Human Services	Pass-through	93.989	4D43TW009639-05	FOGARTY INTL CENTER -NIH/PHS	340,267	125,515
Health and Human Services	Pass-through		KTW009654A	FOGARTY INTL CENTER -NIH/PHS	128,077	15,947
	Pass-thro	-	: T-4-I		10,476,585 82,823,268	360,129
Hamilton de la companya de la compan		d Human Serv	F2042937	GEORGE MACON UNIVERSITY		16,267,367
Homeland Security Homeland Security	Pass-through Pass-through		E2042937 30345-Z9058104	GEORGE MASON UNIVERSITY UNIVERSITY OF MARYLAND	105,374 50,005	20,455
nomerand security		Security Tota		ONVENSITION INJURIENTS	155,379	20,455
Interior	Direct	15	140G0119C0009	US GEOLOGICAL SURVEY	35,684	
Interior	Direct	15.608	F13AC00565	US FISH & WILDLIFE SERVICE	(559)	-
Interior	Direct	15.608	F17AP00582	US FISH & WILDLIFE SERVICE	44,805	-
Interior	Direct Direct	15.608 15.608	F18AC00360 F19AP00229	US FISH & WILDLIFE SERVICE US FISH & WILDLIFE SERVICE	6,873 11,662	-
Interior Interior	Direct	15.630	F17AC00989	US FISH & WILDLIFE SERVICE	52,889	-
Interior	Direct	15.637	F14AC00225	US FISH & WILDLIFE SERVICE	(11,441)	-
Interior	Direct	15.637	F17AP00743	US FISH & WILDLIFE SERVICE	15,052	-
Interior	Direct Direct	15.647 15.657	F14AC00397 F18AP00536	US FISH & WILDLIFE SERVICE US FISH & WILDLIFE SERVICE	611	-
Interior Interior	Direct	15.662	17AC00774	US FISH & WILDLIFE SERVICE	5,395 60,335	
Interior	Direct	15.662	F16AC00099	US FISH & WILDLIFE SERVICE	102,106	-
Interior	Direct	15.662	F16AP00875	US FISH & WILDLIFE SERVICE	22,462	-
Interior Interior	Direct Direct	15.662 15.678	F18AC00566 F17AC00575	US FISH & WILDLIFE SERVICE US FISH & WILDLIFE SERVICE	50,260 54,786	18,376
Interior	Direct	15.678	F17AC00975	US FISH & WILDLIFE SERVICE	14,523	-
Interior	Direct	15.805	G16AP00063	US GEOLOGICAL SURVEY	43,498	-
Interior	Direct	15.805	G17AP00031	US GEOLOGICAL SURVEY	43,037	-
Interior Interior	Direct Direct	15.808 15.808	16AX00421 G12AC20394	US GEOLOGICAL SURVEY US GEOLOGICAL SURVEY	145,030 1,368	-
Interior	Direct	15.808	G13AC00044	US GEOLOGICAL SURVEY	(2,787)	-
Interior	Direct	15.808	G13AC00244	US GEOLOGICAL SURVEY	(2,611)	-
Interior	Direct	15.808	G13AC00284	US GEOLOGICAL SURVEY	(4)	-
Interior Interior	Direct Direct	15.808 15.808	G15AC00026 G15AC00164	US GEOLOGICAL SURVEY US GEOLOGICAL SURVEY	41,353 (2)	-
Interior	Direct	15.808	G16AC00116	US GEOLOGICAL SURVEY	27,172	-
Interior	Direct	15.808	G16AC00116	US GEOLOGICAL SURVEY	18,702	-
Interior	Direct	15.808	G16AC00244	US GEOLOGICAL SURVEY	2,161	-
Interior Interior	Direct Direct	15.808 15.808	G17AC00148 G17AC00152	US GEOLOGICAL SURVEY US GEOLOGICAL SURVEY	83,442 150,436	-
Interior	Direct	15.808	G17AC00273	US GEOLOGICAL SURVEY	35,316	-
Interior	Direct	15.808	G17AC00385	US GEOLOGICAL SURVEY	48,367	-
Interior	Direct	15.808	G17AC00387	US GEOLOGICAL SURVEY	48,242	-
Interior Interior	Direct Direct	15.808 15.808	G17AC00408 G18AC00105	US GEOLOGICAL SURVEY US GEOLOGICAL SURVEY	4,137 48,569	-
Interior	Direct	15.808	G18AC00153	US GEOLOGICAL SURVEY	36,944	-
Interior	Direct	15.808	G19AC00109	US GEOLOGICAL SURVEY	3,220	-
Interior	Direct	15.808 15.811	G1AC20368 G14AC00321	US GEOLOGICAL SURVEY	8,227	-
Interior Interior	Direct Direct	15.811	G17AC00185	US GEOLOGICAL SURVEY US GEOLOGICAL SURVEY	206 165,376	-
Interior	Direct	15.820	G15AC00351	US GEOLOGICAL SURVEY	4,450	-
Interior	Direct	15.820	G17AC00291	US GEOLOGICAL SURVEY	6,320	-
Interior Interior	Direct Direct	15.945 15.945	P16AC01326 P17AC01465	NATIONAL PARK SERVICE NATIONAL PARK SERVICE	191,689	-
interior	Direct Tot		P1/AC01405	NATIONAL PARK SERVICE	6,632 1,623,933	18,376
Interior	Pass-through		ITC BIA A15AV00507	INTER TRIBAL COUNCIL OF MICH	12,660	-
Interior	Pass-through		15-JV-11242313-115	USDA - FOREST SERVICE	77,427	-
Interior	Pass-through	15.232	60064793	OHIO STATE UNIVERSITY	16,155	-
Interior Interior	Pass-through Pass-through		Arkansas Darter SCIT F&W F16AP00301	KANSAS DEPARTMENT OF WILDLIFE, PARKS & TOURISM SAGINAW CHIPPEWA INDIAN TRIBE OF MICHIGAN	65,880 68,877	-
Interior	Pass-through		101817-1	NATURE CONSERVANCY THE	4,027	-
Interior	Pass-through	15.662	1131928-74394	RESEARCH FOUNDATION OF S.U.N.Y.	9,739	-
Interior	Pass-through		UAF19-0068	UNIVERSITY OF ALASKA	46,004	-
Interior Interior	Pass-through Pass-through		404-42-07A App 152482	IOWA STATE UNIVERSITY COLLEGE OF MENOMINEE NATION	4,747 12,983	-
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					rear Ended 3	June 30, 2019
Fordered America	Direct/	CFDA	Accord Normhon	Creater Name	Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster (continued):						
Interior	Pass-through	15.945	2018-2109-01	NORTH CAROLINA STATE UNIVERSITY	\$ 6,861	\$ -
Interior	Pass-through		PG19-65888-01	UNIVERSITY OF MONTANA	41,874	· -
	Pass-throu				367,234	-
	Interior To	otal			1,991,167	18,376
Justice	Direct	16.026	2017-SI-AX-0002	JUSTICE US DEPT OF	116,368	10,511
Justice	Direct	16.026	2018-SI-AX-0001	JUSTICE US DEPT OF	48,608	-
Justice	Direct	16.550	2016-BJ-CX-K026	BUREAU OF JUSTICE STATISTICS	(457)	-
Justice	Direct	16.550	2017-BJ-CX-K020	BUREAU OF JUSTICE STATISTICS	106,688	-
Justice Justice	Direct Direct	16.550 16.560	2018-86-CX-K033 2013-R2-CX-0015	BUREAU OF JUSTICE STATISTICS NATIONAL INSTITUTE OF JUSTICE	20,559 38,975	-
Justice	Direct	16.560	2014-NE-BX-0006	NATIONAL INSTITUTE OF JUSTICE	60,423	
Justice	Direct	16.560	2015-CK-BX-0003	NATIONAL INSTITUTE OF JUSTICE	217,636	110,455
Justice	Direct	16.560	2015-CK-BX-0017	NATIONAL INSTITUTE OF JUSTICE	1,117,178	949,897
Justice	Direct	16.560	2015-DN-BX-K012	NATIONAL INSTITUTE OF JUSTICE	61,294	-
Justice	Direct	16.560	2015-DN-BX-K013	NATIONAL INSTITUTE OF JUSTICE	33,220	-
Justice	Direct	16.560	2015-DN-BX-K031	NATIONAL INSTITUTE OF JUSTICE	22,199	-
Justice	Direct	16.560	2015-DN-BX-K036	NATIONAL INSTITUTE OF JUSTICE	(3,577)	-
Justice Justice	Direct Direct	16.560 16.560	2015-IJ-CX-K008 2015-R2-CX-K041	NATIONAL INSTITUTE OF JUSTICE NATIONAL INSTITUTE OF JUSTICE	1,087 158,906	76,144
Justice Justice	Direct	16.560	2016-R2-CX-0052	NATIONAL INSTITUTE OF JUSTICE	52,634	70,144
Justice	Direct	16.560	2018-DU-BX-0225	NATIONAL INSTITUTE OF JUSTICE	40,143	2,75
Justice	Direct	16.560	2018-ZD-CX-0003	NATIONAL INSTITUTE OF JUSTICE	85,523	-
Justice	Direct	16.562	2015-R2-CX-0005	NATIONAL INSTITUTE OF JUSTICE	10,894	-
Justice	Direct	16.562	2017-IJ-CX-0002	NATIONAL INSTITUTE OF JUSTICE	2,145	-
Justice	Direct	16.609	2015-GP-BX-K003	BUREAU OF JUSTICE ASSISTANCE	123,546	-
Justice	Direct	16.738	2016-MU-BX-K001	BUREAU OF JUSTICE ASSISTANCE	663,768	385,852
Justice	Direct Direct Tota	16.738	2016-MU-BX-K001	BUREAU OF JUSTICE ASSISTANCE	6,102	4 505 615
					2,983,862	1,535,610
Justice	Pass-through		09-097CCC-MSU	WEST VIRGINIA UNIVERSITY	231,898	-
Justice	Pass-through	16	09-097III-MSU	WEST VIRGINIA UNIVERSITY	34	-
Justice Justice	Pass-through	16 16	09-097JJJ-MSU 09-097NN-MSU	WEST VIRGINIA UNIVERSITY WEST VIRGINIA UNIVERSITY	263,564 70,987	-
Justice	Pass-through		6000742	CITY OF DETROIT	29,320	-
Justice	Pass-through Pass-through	16.123 16.560	19008-3125-1	TEXAS STATE UNIVERSITY	31,496	-
Justice	Pass-through	16.560	40582-Z9246101	UNIVERSITY OF MARYLAND	3,582	
Justice	Pass-through	16.560	CM00000097-00	JOHN JAY COLLEGE	84,338	-
Justice	Pass-through	16.560	GR101771	YALE UNIVERSITY	124,859	-
Justice	Pass-through	16.575	C-32001-115-504200	MICHIGAN PUBLIC HEALTH INSTITUTE	10,736	-
Justice	Pass-through	16.575	C-32001-115-504200	MICHIGAN PUBLIC HEALTH INSTITUTE	219,647	-
Justice	Pass-through	16.609	#BFDI-153908	BLACK FAMILY DEVELOPMENT, INC.	46,724	-
Justice	Pass-through	16.662	2016-0113	MI ENVIRONMENTAL QUALITY	49,552	-
Justice Justice	Pass-through Pass-through	16.738 16.738	6001197 PF 2016-VI-X-K001	CITY OF DETROIT POLICE FOUNDATION DBA THE NATIONAL POLICE FOUNDATION	53,018 51,891	-
Justice	Pass-through	16.751	6001224	CITY OF DETROIT	23,253	
Justice		16.751	WCPO 2017-DG-BX-K012	WAYNE COUNTY	25,639	_
Justice	Pass-through		DRMM-17479-001	DETROIT RESCUE MISSION MINISTRIES	477	-
Justice	Pass-through		SAKI-15-04	MI STATE POLICE	80,652	-
	Pass-throu	ıgh Total			1,401,667	-
	Justice Tot	tal			4,385,529	1,535,610
Library of Congress	Direct	42.000	Home Care Aides	LIBRARY OF CONGRESS	11,859	-
		Congress Tot			11,859	
Miscellaneous	Pass-through Miscellane	99	PO0500091	PRICEWATERHOUSE COOPERS PUBLIC SECTOR LLP	17,904 17,904	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC17K0259	NATL AFRONAUTICS AND SPACE ADM	714,385	303,962
National Aeronautics and Space Administration National Aeronautics and Space Administration	Direct Direct	43.001 43.001	80NSSC17K0507 80NSSC18K0382	NATL AERONAUTICS AND SPACE ADM NATL AERONAUTICS AND SPACE ADM	29,003 35,656	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC18K1134	NATL AERONAUTICS AND SPACE ADM	97,556	
National Aeronautics and Space Administration	Direct	43.001	80NSSC18K1707	NATL AERONAUTICS AND SPACE ADM	87,197	
National Aeronautics and Space Administration	Direct	43.001	80NSSC18K1746	NATL AERONAUTICS AND SPACE ADM	12,198	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC19K0302	NATL AERONAUTICS AND SPACE ADM	64,433	-
National Aeronautics and Space Administration	Direct	43.001	80NSSC19K0522	NATL AERONAUTICS AND SPACE ADM	5,154	-
National Aeronautics and Space Administration	Direct	43.001	NNX12AN71G	NATL AERONAUTICS AND SPACE ADM	60,040	-
National Aeronautics and Space Administration	Direct	43.001	NNX15AD51G	NATL AERONAUTICS AND SPACE ADM	39,409	-
National Aeronautics and Space Administration	Direct	43.001	NNX15AI71G	NATL AERONAUTICS AND SPACE ADM	10,380	-
National Aeronautics and Space Administration National Aeronautics and Space Administration	Direct Direct	43.001 43.001	NNX15AP39G NNX16AE52G	NATL AERONAUTICS AND SPACE ADM NATL AERONAUTICS AND SPACE ADM	172,941 27,815	-
National Aeronautics and Space Administration  National Aeronautics and Space Administration	Direct	43.001	NNX16AP81G	NATE AERONAUTICS AND SPACE ADM NATE AERONAUTICS AND SPACE ADM	22,691	-
National Aeronautics and Space Administration	Direct	43.001	NNX16AQ44G	NATL AERONAUTICS AND SPACE ADM	12,908	740
National Aeronautics and Space Administration	Direct	43.001	NNX17AE16G	NATL AERONAUTICS AND SPACE ADM	376,042	-
National Aeronautics and Space Administration	Direct	43.003	NNX13AI44G	NATL AERONAUTICS AND SPACE ADM	59,390	-
National Aeronautics and Space Administration	Direct	43.003	NNX16AR52G	NATL AERONAUTICS AND SPACE ADM	67,718	-
National Aeronautics and Space Administration	Direct	43.007	80NSSC19M0128	NATL AERONAUTICS AND SPACE ADM	78	-
National Aeronautics and Space Administration	Direct	43.007	NNX16AC24A	NATL AERONAUTICS AND SPACE ADM	62,532	-
National Aeronautics and Space Administration	Direct	43.007	NNX16AD52A	NATL AERONAUTICS AND SPACE ADM	18,552	-
National Aeronautics and Space Administration	Direct Total	43.007	NNX16AT85G	NATL AERONAUTICS AND SPACE ADM	7,751 1,983,829	304,702
						304,702
National Aeronautics and Space Administration	Pass-through		1587104	JET PROPULSION LABORATORY	(7,114)	-
National Aeronautics and Space Administration		43	HST-GO-14086.001-A	SPACE TELESCOPE SCIENCE INSTITUTE	2,856	-
National Aeronautics and Space Administration	Pass-through	43 43	HST-GO-14351.001-A	SPACE TELESCOPE SCIENCE INSTITUTE SPACE TELESCOPE SCIENCE INSTITUTE	405 4,353	-
National Aeronautics and Space Administration National Aeronautics and Space Administration	Pass-through Pass-through		HST-GO-14639.008-A HST-GO-14704.003-A	SPACE TELESCOPE SCIENCE INSTITUTE  SPACE TELESCOPE SCIENCE INSTITUTE	4,353 15,384	-
National Aeronautics and Space Administration  National Aeronautics and Space Administration	Pass-through		HST-GO-14704.003-A HST-GO-14738.004-A	SPACE TELESCOPE SCIENCE INSTITUTE  SPACE TELESCOPE SCIENCE INSTITUTE	2,583	-
National Aeronautics and Space Administration			HST-GO-15308.003	SPACE TELESCOPE SCIENCE INSTITUTE  SPACE TELESCOPE SCIENCE INSTITUTE	7,021	-
National Aeronautics and Space Administration	Pass-through	43	NNX17CK13P	ROLF MILES OLSEN DBA TWO PLANET STEEL	(34,911)	-
National Aeronautics and Space Administration	Pass-through	43.001	1552613	COLORADO UNIVERSITY OF	75,639	-
		43.001	1580232	JET PROPULSION LABORATORY	79,992	-
National Aeronautics and Space Administration	Pass-through					_
National Aeronautics and Space Administration National Aeronautics and Space Administration		43.001	1609082Z1	MICHIGAN TECH RESEARCH INSTITUTE	229,455	
	Pass-through		1609082Z1 1626984	MICHIGAN TECH RESEARCH INSTITUTE JET PROPULSION LABORATORY	1,674	-
National Aeronautics and Space Administration	Pass-through Pass-through	43.001				-
National Aeronautics and Space Administration National Aeronautics and Space Administration National Aeronautics and Space Administration National Aeronautics and Space Administration	Pass-through Pass-through Pass-through Pass-through Pass-through	43.001 43.001 43.001 43.001	1626984 19-0053 403356	JET PROPULSION LABORATORY UNIVERSITY OF ALASKA ARIZONA STATE UNIVERSITY	1,674 1,538 111	-
National Aeronautics and Space Administration National Aeronautics and Space Administration National Aeronautics and Space Administration National Aeronautics and Space Administration National Aeronautics and Space Administration	Pass-through Pass-through Pass-through Pass-through Pass-through Pass-through	43.001 43.001 43.001 43.001 43.001	1626984 19-0053 403356 AR7-18008X	JET PROPULSION LABORATORY UNIVERSITY OF ALASKA ARIZONA STATE UNIVERSITY SMITHSONIAN ASTROPHYSICAL OBSERVATORY	1,674 1,538 111 1,772	-
National Aeronautics and Space Administration National Aeronautics and Space Administration	Pass-through Pass-through Pass-through Pass-through Pass-through Pass-through Pass-through	43.001 43.001 43.001 43.001 43.001 43.001	1626984 19-0053 403356 AR7-18008X G06-17040X	JET PROPULSION LABORATORY UNIVERSITY OF ALASKA ARIZONA STATE UNIVERSITY SMITHSONIAN ASTROPHYSICAL OBSERVATORY SMITHSONIAN ASTROPHYSICAL OBSERVATORY	1,674 1,538 111 1,772 66,344	- - - -
National Aeronautics and Space Administration National Aeronautics and Space Administration	Pass-through Pass-through Pass-through Pass-through Pass-through Pass-through Pass-through Pass-through	43.001 43.001 43.001 43.001 43.001 43.001 43.001	1626984 19-0053 403356 AR7-18008X G06-17040X GO4-15089A	JET PROPULSION LABORATORY UNIVERSITY OF ALASKA ARIZONA STATE UNIVERSITY SMITHSONIAN ASTROPHYSICAL OBSERVATORY SMITHSONIAN ASTROPHYSICAL OBSERVATORY SMITHSONIAN ASTROPHYSICAL OBSERVATORY SMITHSONIAN ASTROPHYSICAL OBSERVATORY	1,674 1,538 111 1,772 66,344 19,407	- - - -
National Aeronautics and Space Administration National Aeronautics and Space Administration	Pass-through Pass-through Pass-through Pass-through Pass-through Pass-through Pass-through Pass-through	43.001 43.001 43.001 43.001 43.001 43.001 43.001 43.001	1626984 19-0053 403356 AR7-18008X G06-17040X	JET PROPULSION LABORATORY UNIVERSITY OF ALASKA ARIZONA STATE UNIVERSITY SMITHSONIAN ASTROPHYSICAL OBSERVATORY SMITHSONIAN ASTROPHYSICAL OBSERVATORY	1,674 1,538 111 1,772 66,344	

	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster						
(continued):						
National Aeronautics and Space Administration	Pass-through		GO6-17045X	SMITHSONIAN ASTROPHYSICAL OBSERVATORY		\$ -
National Aeronautics and Space Administration National Aeronautics and Space Administration	Pass-through Pass-through	43.001 43.001	GO7-18036X GO8-19122X	SMITHSONIAN ASTROPHYSICAL OBSERVATORY SMITHSONIAN ASTROPHYSICAL OBSERVATORY	6,027 5,667	-
National Aeronautics and Space Administration	Pass-through		HST-AR-13923.001-A	SPACE TELESCOPE SCIENCE INSTITUTE	43,934	
National Aeronautics and Space Administration	Pass-through		HST-AR-14315.001-A	SPACE TELESCOPE SCIENCE INSTITUTE	4,096	_
National Aeronautics and Space Administration	Pass-through	43.001	HST-GO-13720.001-A	SPACE TELESCOPE SCIENCE INSTITUTE	50,528	
National Aeronautics and Space Administration	Pass-through	43.001	HST-GO-14132.001-A	SPACE TELESCOPE SCIENCE INSTITUTE	25,709	-
National Aeronautics and Space Administration	Pass-through	43.001	HST-GO-14203.002-A	SPACE TELESCOPE SCIENCE INSTITUTE	16,535	-
National Aeronautics and Space Administration	Pass-through	43.001	NS2210-SB-223334	UNIVERSITY OF IDAHO	4,535	-
National Aeronautics and Space Administration	Pass-through	43.001	SV9-89010	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	14,891	-
National Aeronautics and Space Administration	Pass-through	43.001	TM7-18005X	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	27,453	-
National Aeronautics and Space Administration	Pass-through	43.001	TM8-19006X 700000820	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	1,913	-
National Aeronautics and Space Administration National Aeronautics and Space Administration	Pass-through Pass-through	43.003 43.008	3004469965	BAYLOR COLLEGE OF MEDICINE UNIVERSITY OF MICHIGAN	108,407 6,005	-
National Aeronautics and Space Administration  National Aeronautics and Space Administration	Pass-through	43.008	SUBK00009426	MICHIGAN SPACE GRANT CONSORTIUM	2,252	-
National Aeronautics and Space Administration	Pass-through		SUBK00009426	UNIVERSITY OF MICHIGAN	6,402	
National Aeronautics and Space Administration	Pass-through	43.012	438296	ARIZONA STATE UNIVERSITY	84,272	-
	Pass-thro				883,927	-
	National A	Aeronautics a	nd Space Administration Total		2,867,756	304,702
National Science Foundation	Direct	47.041	1462118	NATIONAL SCIENCE FOUNDATION	17,207	-
National Science Foundation	Direct	47.041	1463164	NATIONAL SCIENCE FOUNDATION	25,463	-
National Science Foundation	Direct	47.041	1510895	NATIONAL SCIENCE FOUNDATION	52,295	-
National Science Foundation	Direct	47.041	1510895	NATIONAL SCIENCE FOUNDATION	7,555	-
National Science Foundation	Direct	47.041	1511098	NATIONAL SCIENCE FOUNDATION	40,509	-
National Science Foundation	Direct	47.041	1544068	NATIONAL SCIENCE FOUNDATION	7,259	-
National Science Foundation	Direct	47.041	1547518	NATIONAL SCIENCE FOUNDATION	(6,270)	-
National Science Foundation	Direct	47.041	1549517	NATIONAL SCIENCE FOUNDATION	9,213	-
National Science Foundation	Direct	47.041	1561628	NATIONAL SCIENCE FOUNDATION	21,029	-
National Science Foundation	Direct	47.041	1561964	NATIONAL SCIENCE FOUNDATION	135,816	-
National Science Foundation	Direct	47.041	1565232	NATIONAL SCIENCE FOUNDATION	126,012	-
National Science Foundation	Direct	47.041	1600417	NATIONAL SCIENCE FOUNDATION	57,685	(58
National Science Foundation	Direct	47.041	1603347	NATIONAL SCIENCE FOUNDATION	83,282	-
National Science Foundation National Science Foundation	Direct Direct	47.041 47.041	1603646 1603646	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	127,473 5,737	-
National Science Foundation  National Science Foundation	Direct	47.041	1603705	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	72,302	-
National Science Foundation	Direct	47.041	1603703	NATIONAL SCIENCE FOUNDATION	86,767	
National Science Foundation	Direct	47.041	1603892	NATIONAL SCIENCE FOUNDATION	43,072	-
National Science Foundation	Direct	47.041	1603892	NATIONAL SCIENCE FOUNDATION	303	-
National Science Foundation	Direct	47.041	1628958	NATIONAL SCIENCE FOUNDATION	393,169	137,38
National Science Foundation	Direct	47.041	1632051	NATIONAL SCIENCE FOUNDATION	146,346	6,45
National Science Foundation	Direct	47.041	1639115	NATIONAL SCIENCE FOUNDATION	768,325	40,94
National Science Foundation	Direct	47.041	1651674	NATIONAL SCIENCE FOUNDATION	114,657	
National Science Foundation	Direct	47.041	1661618	NATIONAL SCIENCE FOUNDATION	34,966	-
National Science Foundation	Direct	47.041	1700785	NATIONAL SCIENCE FOUNDATION	2,737	-
National Science Foundation	Direct	47.041	1700787	NATIONAL SCIENCE FOUNDATION	72,249	-
National Science Foundation	Direct	47.041	1702591	NATIONAL SCIENCE FOUNDATION	145,854	-
National Science Foundation	Direct	47.041	1702987	NATIONAL SCIENCE FOUNDATION	52,650	-
National Science Foundation	Direct	47.041	1703735	NATIONAL SCIENCE FOUNDATION	82,602	-
National Science Foundation	Direct	47.041	1703735	NATIONAL SCIENCE FOUNDATION	21,917	-
National Science Foundation	Direct	47.041	1708820	NATIONAL SCIENCE FOUNDATION	71,904	-
National Science Foundation	Direct	47.041	1724941	NATIONAL SCIENCE FOUNDATION	50,191	-
National Science Foundation	Direct	47.041	1725278	NATIONAL SCIENCE FOUNDATION	119,459	-
National Science Foundation National Science Foundation	Direct Direct	47.041 47.041	1727525 1744273	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	189,137 37,255	-
National Science Foundation	Direct	47.041	1744604	NATIONAL SCIENCE FOUNDATION	54,261	
National Science Foundation	Direct	47.041	1750785	NATIONAL SCIENCE FOUNDATION	33,650	-
National Science Foundation	Direct	47.041	1752773	NATIONAL SCIENCE FOUNDATION	94,375	-
National Science Foundation	Direct	47.041	1759823	NATIONAL SCIENCE FOUNDATION	51,602	_
National Science Foundation	Direct	47.041	1762331	NATIONAL SCIENCE FOUNDATION	111,633	-
National Science Foundation	Direct	47.041	1800466	NATIONAL SCIENCE FOUNDATION	57,832	-
National Science Foundation	Direct	47.041	1801785	NATIONAL SCIENCE FOUNDATION	66,260	-
National Science Foundation	Direct	47.041	1802992	NATIONAL SCIENCE FOUNDATION	85,166	-
National Science Foundation	Direct	47.041	1803695	NATIONAL SCIENCE FOUNDATION	43,889	-
National Science Foundation	Direct	47.041	1808436	NATIONAL SCIENCE FOUNDATION	61,952	-
National Science Foundation	Direct	47.041	1823684	NATIONAL SCIENCE FOUNDATION	20,000	-
National Science Foundation	Direct	47.041	1824976	NATIONAL SCIENCE FOUNDATION	110,337	-
National Science Foundation	Direct	47.041	1825678	NATIONAL SCIENCE FOUNDATION	77,368	-
National Science Foundation	Direct	47.041	1825678	NATIONAL SCIENCE FOUNDATION	468	-
National Science Foundation	Direct	47.041	1830269	NATIONAL SCIENCE FOUNDATION	12,713	-
National Science Foundation National Science Foundation	Direct Direct	47.041 47.041	1836682 1854750	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	38,442 1,662	-
National Science Foundation  National Science Foundation	Direct	47.041 47.041	1923187	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	29,217	-
National Science Foundation  National Science Foundation	Direct	47.041	1923187 CBET-1236120	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	29,217 11,405	11,405
National Science Foundation	Direct	47.041	CBET-1254238	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	60,737	
National Science Foundation	Direct	47.041	CBET-1254238	NATIONAL SCIENCE FOUNDATION	11,590	-
National Science Foundation	Direct	47.041	CBET-1254453	NATIONAL SCIENCE FOUNDATION	3,930	-
National Science Foundation	Direct	47.041	CBET-1437657	NATIONAL SCIENCE FOUNDATION	(36)	-
National Science Foundation	Direct	47.041	CBET-1438105	NATIONAL SCIENCE FOUNDATION	(107)	-
National Science Foundation	Direct	47.041	CBET-1507789	NATIONAL SCIENCE FOUNDATION	43,100	-
National Science Foundation	Direct	47.041	CBET-1510203	NATIONAL SCIENCE FOUNDATION	25,841	-
National Science Foundation	Direct	47.041	CBET-1845006	NATIONAL SCIENCE FOUNDATION	14,638	-
National Science Foundation	Direct	47.041	CMMI-1030821	NATIONAL SCIENCE FOUNDATION	(2,188)	-
National Science Foundation	Direct	47.041	CMMI-1435126	NATIONAL SCIENCE FOUNDATION	6,850	-
National Science Foundation	Direct	47.041	CMMI-1462118	NATIONAL SCIENCE FOUNDATION	49,466	-
National Science Foundation	Direct	47.041	CMMI-1463006	NATIONAL SCIENCE FOUNDATION	133,361	-
National Science Foundation	Direct	47.041	ECCS-1350560	NATIONAL SCIENCE FOUNDATION	126	-
National Science Foundation	Direct	47.041	ECCS-1350560	NATIONAL SCIENCE FOUNDATION	(22,959)	-
	Direct	47.041	ECCS-1407880	NATIONAL SCIENCE FOUNDATION	21,085	21,64
National Science Foundation			ECCS-1408115	NATIONAL SCIENCE FOUNDATION	(761)	-
National Science Foundation	Direct	47.041				
National Science Foundation National Science Foundation	Direct Direct	47.041	ECCS-1408506	NATIONAL SCIENCE FOUNDATION	63,850	-
National Science Foundation National Science Foundation National Science Foundation	Direct Direct Direct	47.041 47.041	ECCS-1408506 ECCS-1446793	NATIONAL SCIENCE FOUNDATION	362,148	-
National Science Foundation National Science Foundation National Science Foundation National Science Foundation	Direct Direct Direct Direct	47.041 47.041 47.041	ECCS-1408506 ECCS-1446793 ECCS-175165	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	362,148 27,964	-
National Science Foundation National Science Foundation National Science Foundation National Science Foundation National Science Foundation	Direct Direct Direct Direct Direct	47.041 47.041 47.041 47.041	ECCS-1408506 ECCS-1446793 ECCS-175165 PHY-1531199	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	362,148 27,964 280,706	-
National Science Foundation National Science Foundation National Science Foundation National Science Foundation	Direct Direct Direct Direct	47.041 47.041 47.041	ECCS-1408506 ECCS-1446793 ECCS-175165	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	362,148 27,964	- - - -

						Year Ended	June 30, 2019
	Direct/	CFDA				Total	Subaward
Federal Agency	Pass-through	(Note 5)		Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster							
(continued):							
National Science Foundation	Direct Direct	47.049 47.049	1453661 1462156		NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	\$ 5,360	\$ -
National Science Foundation National Science Foundation	Direct	47.049	1462156		NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	160,504 64,680	-
National Science Foundation	Direct	47.049	1465043		NATIONAL SCIENCE FOUNDATION	119,569	_
National Science Foundation	Direct	47.049	1502135		NATIONAL SCIENCE FOUNDATION	8,951	
National Science Foundation	Direct	47.049	1502135		NATIONAL SCIENCE FOUNDATION	1,422	-
National Science Foundation	Direct	47.049	1505364		NATIONAL SCIENCE FOUNDATION	(2,917)	-
National Science Foundation	Direct	47.049	1507226		NATIONAL SCIENCE FOUNDATION	50,393	-
National Science Foundation	Direct	47.049	1514591		NATIONAL SCIENCE FOUNDATION	94	-
National Science Foundation	Direct	47.049	1514700		NATIONAL SCIENCE FOUNDATION	118,056	-
National Science Foundation National Science Foundation	Direct Direct	47.049 47.049	1514763 1516969		NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	99,066 50,700	-
National Science Foundation	Direct	47.049	1519045		NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	22,667	
National Science Foundation	Direct	47.049	1520929		NATIONAL SCIENCE FOUNDATION	27,599	
National Science Foundation	Direct	47.049	1522249		NATIONAL SCIENCE FOUNDATION	15,665	
National Science Foundation	Direct	47.049	1554315		NATIONAL SCIENCE FOUNDATION	83,127	-
National Science Foundation	Direct	47.049	1559776		NATIONAL SCIENCE FOUNDATION	65,672	-
National Science Foundation	Direct	47.049	1559776		NATIONAL SCIENCE FOUNDATION	11,523	-
National Science Foundation	Direct	47.049	1559866		NATIONAL SCIENCE FOUNDATION	82,278	-
National Science Foundation	Direct	47.049	1559866		NATIONAL SCIENCE FOUNDATION	18,106	-
National Science Foundation	Direct	47.049 47.049	1562140		NATIONAL SCIENCE FOUNDATION	80,884	-
National Science Foundation National Science Foundation	Direct Direct	47.049	1600065 1607089		NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	150,472 42,642	
National Science Foundation	Direct	47.049	1607942		NATIONAL SCIENCE FOUNDATION	129,468	_
National Science Foundation	Direct	47.049	1608752		NATIONAL SCIENCE FOUNDATION	95,734	
National Science Foundation	Direct	47.049	1612867		NATIONAL SCIENCE FOUNDATION	90,551	-
National Science Foundation	Direct	47.049	1612885		NATIONAL SCIENCE FOUNDATION	29,758	-
National Science Foundation	Direct	47.049	1613899		NATIONAL SCIENCE FOUNDATION	(430)	-
National Science Foundation	Direct	47.049	1614566		NATIONAL SCIENCE FOUNDATION	140,820	-
National Science Foundation	Direct	47.049	1619960		NATIONAL SCIENCE FOUNDATION	71,144	-
National Science Foundation National Science Foundation	Direct Direct	47.049 47.049	1620216 1621798		NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	80,970 55.625	-
National Science Foundation	Direct	47.049	162494		NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	210,836	6,301
National Science Foundation	Direct	47.049	1625181		NATIONAL SCIENCE FOUNDATION	306,325	
National Science Foundation	Direct	47.049	1632761		NATIONAL SCIENCE FOUNDATION	60,346	
National Science Foundation	Direct	47.049	1636557		NATIONAL SCIENCE FOUNDATION	144,616	-
National Science Foundation	Direct	47.049	1653405		NATIONAL SCIENCE FOUNDATION	102,592	-
National Science Foundation	Direct	47.049	1654610		NATIONAL SCIENCE FOUNDATION	121,907	-
National Science Foundation	Direct	47.049	1663778		NATIONAL SCIENCE FOUNDATION	22,809	-
National Science Foundation	Direct	47.049	1664823		NATIONAL SCIENCE FOUNDATION	107,858	-
National Science Foundation  National Science Foundation	Direct Direct	47.049 47.049	1665285 1700094		NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	56,946 43,815	-
National Science Foundation	Direct	47.049	1700034		NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	54,480	
National Science Foundation	Direct	47.049	1701619		NATIONAL SCIENCE FOUNDATION	49,077	_
National Science Foundation	Direct	47.049	1702115		NATIONAL SCIENCE FOUNDATION	58,971	
National Science Foundation	Direct	47.049	1707812		NATIONAL SCIENCE FOUNDATION	1,023,401	-
National Science Foundation	Direct	47.049	1707842		NATIONAL SCIENCE FOUNDATION	179,371	-
National Science Foundation	Direct	47.049	1708249		NATIONAL SCIENCE FOUNDATION	99,908	-
National Science Foundation	Direct	47.049	1708331		NATIONAL SCIENCE FOUNDATION	116,347	-
National Science Foundation National Science Foundation	Direct Direct	47.049 47.049	1709016 1709158		NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	90,558 154,205	-
National Science Foundation  National Science Foundation	Direct	47.049	1713901		NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	210,399	-
National Science Foundation	Direct	47.049	1714144		NATIONAL SCIENCE FOUNDATION	3,138	
National Science Foundation	Direct	47.049	1714825		NATIONAL SCIENCE FOUNDATION	63,044	
National Science Foundation	Direct	47.049	1715178		NATIONAL SCIENCE FOUNDATION	31,459	-
National Science Foundation	Direct	47.049	1719863		NATIONAL SCIENCE FOUNDATION	58,403	-
National Science Foundation	Direct	47.049	1719914		NATIONAL SCIENCE FOUNDATION	110,201	-
National Science Foundation	Direct	47.049	1720002		NATIONAL SCIENCE FOUNDATION	86,819	-
National Science Foundation	Direct	47.049	1720023		NATIONAL SCIENCE FOUNDATION	19,214	-
National Science Foundation	Direct	47.049	1721024		NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	202,869	-
National Science Foundation National Science Foundation	Direct Direct	47.049 47.049	1734183 1751857		NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	3,129 9,092	-
National Science Foundation	Direct	47.049	1751857		NATIONAL SCIENCE FOUNDATION	1,000	-
National Science Foundation	Direct	47.049	1751874		NATIONAL SCIENCE FOUNDATION	121,667	
National Science Foundation	Direct	47.049	1754967		NATIONAL SCIENCE FOUNDATION	19,560	-
National Science Foundation	Direct	47.049	1758326		NATIONAL SCIENCE FOUNDATION	36,616	-
National Science Foundation	Direct	47.049	1759824		NATIONAL SCIENCE FOUNDATION	39,927	-
National Science Foundation	Direct	47.049	1761320		NATIONAL SCIENCE FOUNDATION	142,539	-
National Science Foundation	Direct	47.049	1761320		NATIONAL SCIENCE FOUNDATION	77,288	-
National Science Foundation National Science Foundation	Direct Direct	47.049 47.049	1761320 1763371		NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	22,560 49,329	-
National Science Foundation	Direct	47.049	1763855		NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	11,764	
National Science Foundation	Direct	47.049	1800446		NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	46,442	-
National Science Foundation	Direct	47.049	1802934		NATIONAL SCIENCE FOUNDATION	(673)	_
National Science Foundation	Direct	47.049	1803719		NATIONAL SCIENCE FOUNDATION	120,737	
National Science Foundation	Direct	47.049	1806473		NATIONAL SCIENCE FOUNDATION	105,822	67,339
National Science Foundation	Direct	47.049	1807073		NATIONAL SCIENCE FOUNDATION	40,164	-
National Science Foundation	Direct	47.049	1807073		NATIONAL SCIENCE FOUNDATION	9,163	-
National Science Foundation	Direct	47.049	1807573		NATIONAL SCIENCE FOUNDATION	133,935	-
National Science Foundation	Direct	47.049	1810575		NATIONAL SCIENCE FOUNDATION	10,437	-
National Science Foundation National Science Foundation	Direct	47.049	1811777		NATIONAL SCIENCE FOUNDATION	5,000	-
	Direct	47.049 47.049	1811815		NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	39,582	-
National Science Foundation National Science Foundation	Direct Direct	47.049 47.049	1811855 1812332		NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	103,831 62,394	-
National Science Foundation  National Science Foundation	Direct	47.049 47.049	1812332		NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	62,394 42,931	-
National Science Foundation	Direct	47.049	1812856		NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	9,940	-
National Science Foundation	Direct	47.049	1813203		NATIONAL SCIENCE FOUNDATION	33,505	-
National Science Foundation	Direct	47.049	1813203		NATIONAL SCIENCE FOUNDATION	2,311	-
National Science Foundation	Direct	47.049	1832808		NATIONAL SCIENCE FOUNDATION	9,721	-
National Science Foundation	Direct	47.049	1833447		NATIONAL SCIENCE FOUNDATION	25,000	-
National Science Foundation	Direct	47.049	1836498		NATIONAL SCIENCE FOUNDATION	154,334	-
National Science Foundation	Direct	47.049	1843472		NATIONAL SCIENCE FOUNDATION	4,505	-
National Science Foundation	Direct	47.049	1851776		NATIONAL SCIENCE FOUNDATION	40,304	-
National Science Foundation	Direct	47.049	1851776	40	NATIONAL SCIENCE FOUNDATION	12,784	-
National Science Foundation National Science Foundation	Direct Direct	47.049 47.049	AST-14125 AST-14127		NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	58,118 (8,307)	-
National Science Foundation  National Science Foundation	Direct	47.049	AST-14127 AST-14129		NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	(8,507) 88,654	-
						,	

					rear Ended	Julie 30, 2019
	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster						
(continued): National Science Foundation	Direct	47.049	CHE 1151590	NATIONAL SCIENCE FOUNDATION	\$ (228)	\$ -
National Science Foundation	Direct	47.049	CHE-1358842	NATIONAL SCIENCE FOUNDATION	8,256	-
National Science Foundation	Direct	47.049	CHE-1358842	NATIONAL SCIENCE FOUNDATION	4,176	-
National Science Foundation	Direct	47.049	CHE-1362812	NATIONAL SCIENCE FOUNDATION	124,399	-
National Science Foundation	Direct	47.049	CHE-1507588	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	49,209	-
National Science Foundation National Science Foundation	Direct Direct	47.049 47.049	CHE-1516126 CHE-1516126	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	69,044 54,791	-
National Science Foundation	Direct	47.049	CHE-1510120	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	97,276	
National Science Foundation	Direct	47.049	DMR-1410850	NATIONAL SCIENCE FOUNDATION	31,164	-
National Science Foundation	Direct	47.049	DMR-1411102	NATIONAL SCIENCE FOUNDATION	(47)	-
National Science Foundation	Direct	47.049	DMR-1507489	NATIONAL SCIENCE FOUNDATION	1,349	-
National Science Foundation	Direct	47.049	DMS-1149408	NATIONAL SCIENCE FOUNDATION	1,215	-
National Science Foundation	Direct	47.049	DMS-1352407	NATIONAL SCIENCE FOUNDATION	41,722	-
National Science Foundation	Direct	47.049	DMS-1360733	NATIONAL SCIENCE FOUNDATION	15,290	-
National Science Foundation	Direct	47.049	DMS-1404754	NATIONAL SCIENCE FOUNDATION	(1,201)	-
National Science Foundation  National Science Foundation	Direct Direct	47.049 47.049	DMS-1409940	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	14,120	-
National Science Foundation	Direct	47.049	DMS-1409940 DMS-1411411	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	12,110 29,413	
National Science Foundation	Direct	47.049	DMS-1413060	NATIONAL SCIENCE FOUNDATION	4,289	-
National Science Foundation	Direct	47.049	DMS-1416752	NATIONAL SCIENCE FOUNDATION	(2,862)	
National Science Foundation	Direct	47.049	DMS-1418804	NATIONAL SCIENCE FOUNDATION	(601)	-
National Science Foundation	Direct	47.049	DMS-1500386	NATIONAL SCIENCE FOUNDATION	35,280	-
National Science Foundation	Direct	47.049	DMS-1513481	NATIONAL SCIENCE FOUNDATION	30,703	-
National Science Foundation	Direct	47.049	DMS-1622301	NATIONAL SCIENCE FOUNDATION	55,102	-
National Science Foundation	Direct	47.049	DMS-1852066	NATIONAL SCIENCE FOUNDATION	25,487	-
National Science Foundation	Direct	47.049	PHY-1350234	NATIONAL SCIENCE FOUNDATION	76,073	-
National Science Foundation	Direct	47.049	PHY-1350234	NATIONAL SCIENCE FOUNDATION	6,737	-
National Science Foundation National Science Foundation	Direct Direct	47.049 47.049	PHY-1403906 PHY-1410972	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	2,024 39,480	-
National Science Foundation	Direct	47.049	PHY-1415462	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	61,836	
National Science Foundation	Direct	47.049	PHY-1410462 PHY-1430152	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	2,504,105	1,521,670
National Science Foundation	Direct	47.049	PHY-1430152	NATIONAL SCIENCE FOUNDATION	58,712	-
National Science Foundation	Direct	47.049	PHY-1520971	NATIONAL SCIENCE FOUNDATION	46,359	
National Science Foundation	Direct	47.049	PHY-1565546	NATIONAL SCIENCE FOUNDATION	24,922,122	15,448
National Science Foundation	Direct	47.050	1443165	NATIONAL SCIENCE FOUNDATION	46,396	-
National Science Foundation	Direct	47.050	1446328	NATIONAL SCIENCE FOUNDATION	61,656	-
National Science Foundation	Direct	47.050	1523628	NATIONAL SCIENCE FOUNDATION	166,415	108,667
National Science Foundation	Direct	47.050	1531086	NATIONAL SCIENCE FOUNDATION	123,517	-
National Science Foundation	Direct	47.050	1540576	NATIONAL SCIENCE FOUNDATION	25,748	20,220
National Science Foundation	Direct	47.050	1549764	NATIONAL SCIENCE FOUNDATION	83,000	-
National Science Foundation National Science Foundation	Direct Direct	47.050 47.050	1551872 1620509	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	57,770	-
National Science Foundation  National Science Foundation	Direct	47.050	1629439	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	105,308 70,603	-
National Science Foundation	Direct	47.050	1630399	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	94,378	
National Science Foundation	Direct	47.050	1638958	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	216,389	
National Science Foundation	Direct	47.050	1644453	NATIONAL SCIENCE FOUNDATION	13,700	_
National Science Foundation	Direct	47.050	1645299	NATIONAL SCIENCE FOUNDATION	14,620	
National Science Foundation	Direct	47.050	1649186	NATIONAL SCIENCE FOUNDATION	13,640	-
National Science Foundation	Direct	47.050	1664332	NATIONAL SCIENCE FOUNDATION	59,218	-
National Science Foundation	Direct	47.050	1722623	NATIONAL SCIENCE FOUNDATION	24,524	-
National Science Foundation	Direct	47.050	1751664	NATIONAL SCIENCE FOUNDATION	90,259	-
National Science Foundation	Direct	47.050	1752729	NATIONAL SCIENCE FOUNDATION	78,100	-
National Science Foundation	Direct	47.050	1802247	NATIONAL SCIENCE FOUNDATION	69,396	-
National Science Foundation	Direct	47.050	1842078	NATIONAL SCIENCE FOUNDATION	33,747	-
National Science Foundation National Science Foundation	Direct Direct	47.050 47.050	1842078 1842989	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	7,126 13,433	-
National Science Foundation	Direct	47.050	1846855	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	66,179	-
National Science Foundation	Direct	47.050	1917435	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	4,028	
National Science Foundation	Direct	47.050	EAR-1348935	NATIONAL SCIENCE FOUNDATION	8,882	
National Science Foundation	Direct	47.050	OCE 1829406	NATIONAL SCIENCE FOUNDATION	43,852	
National Science Foundation	Direct	47.070	1524698	NATIONAL SCIENCE FOUNDATION	20,920	
National Science Foundation	Direct	47.070	1533802	NATIONAL SCIENCE FOUNDATION	96,056	-
National Science Foundation	Direct	47.070	1547015	NATIONAL SCIENCE FOUNDATION	99,872	-
National Science Foundation	Direct	47.070	1560168	NATIONAL SCIENCE FOUNDATION	115,977	-
National Science Foundation	Direct	47.070	1560168	NATIONAL SCIENCE FOUNDATION	13,952	-
National Science Foundation	Direct	47.070	1565596	NATIONAL SCIENCE FOUNDATION	40,007	-
National Science Foundation	Direct	47.070	1565604	NATIONAL SCIENCE FOUNDATION	40,649	-
National Science Foundation National Science Foundation	Direct Direct	47.070 47.070	1615489 1615597	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	99,108	-
National Science Foundation  National Science Foundation	Direct	47.070	1615597 1615612	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	91,101 52,661	-
National Science Foundation  National Science Foundation	Direct	47.070	1617412	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	12,404	-
National Science Foundation	Direct	47.070	1617412	NATIONAL SCIENCE FOUNDATION	96,384	-
National Science Foundation	Direct	47.070	1617627	NATIONAL SCIENCE FOUNDATION	172,695	-
National Science Foundation	Direct	47.070	1617682	NATIONAL SCIENCE FOUNDATION	194,078	-
National Science Foundation	Direct	47.070	1618518	NATIONAL SCIENCE FOUNDATION	162,421	-
National Science Foundation	Direct	47.070	1622659	NATIONAL SCIENCE FOUNDATION	175,670	-
National Science Foundation	Direct	47.070	1645783	NATIONAL SCIENCE FOUNDATION	19,899	-
National Science Foundation	Direct	47.070	1655422	NATIONAL SCIENCE FOUNDATION	2,238	-
National Science Foundation	Direct	47.070	1656905	NATIONAL SCIENCE FOUNDATION	47,230	-
National Science Foundation	Direct	47.070	1714126	NATIONAL SCIENCE FOUNDATION	88,871	-
National Science Foundation National Science Foundation	Direct Direct	47.070 47.070	1714126 1714417	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	4,313	-
National Science Foundation  National Science Foundation			1/1441/ 1714741		83,028	-
National Science Foundation  National Science Foundation	Direct Direct	47.070 47.070	1715714	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	147,974 8,210	-
National Science Foundation  National Science Foundation	Direct	47.070	1715940	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	73,779	-
National Science Foundation	Direct	47.070	1719275	NATIONAL SCIENCE FOUNDATION	15,406	-
National Science Foundation	Direct	47.070	1730137	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	97,008	-
National Science Foundation	Direct	47.070	1730137	NATIONAL SCIENCE FOUNDATION	679	-
National Science Foundation	Direct	47.070	1734272	NATIONAL SCIENCE FOUNDATION	203,137	-
National Science Foundation	Direct	47.070	1738677	NATIONAL SCIENCE FOUNDATION	235,628	99,982
National Science Foundation	Direct	47.070	1738677	NATIONAL SCIENCE FOUNDATION	96	-
National Science Foundation	Direct	47.070	1749018	NATIONAL SCIENCE FOUNDATION	87,460	-
National Science Foundation	Direct	47.070	1749940	NATIONAL SCIENCE FOUNDATION	34,262	-
National Science Foundation	Direct	47.070	1807622	NATIONAL SCIENCE FOUNDATION	36,452	-
National Science Foundation	Direct	47.070	1810584	NATIONAL SCIENCE FOUNDATION	6,318	-
National Science Foundation	Direct	47.070	1814551	NATIONAL SCIENCE FOUNDATION	33,758	-
National Science Foundation	Direct	47.070	1815636	NATIONAL SCIENCE FOUNDATION	53,085	-

					Year Ended	June 30, 2019
	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster						
(continued):						
National Science Foundation	Direct	47.070	1822932	NATIONAL SCIENCE FOUNDATION	\$ 56,247	\$ -
National Science Foundation  National Science Foundation	Direct Direct	47.070 47.070	1830244 1832740	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	1,700 14,689	-
National Science Foundation	Direct	47.070	1835267	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	51,586	
National Science Foundation	Direct	47.070	1835426	NATIONAL SCIENCE FOUNDATION	38,066	
National Science Foundation	Direct	47.070	1837146	NATIONAL SCIENCE FOUNDATION	39,141	-
National Science Foundation	Direct	47.070	1841590	NATIONAL SCIENCE FOUNDATION	14,404	-
National Science Foundation	Direct	47.070	1845081	NATIONAL SCIENCE FOUNDATION	6,233	-
National Science Foundation	Direct	47.070	1845208	NATIONAL SCIENCE FOUNDATION	5,598	-
National Science Foundation  National Science Foundation	Direct Direct	47.070 47.070	1848945 1854985	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	8,095	-
National Science Foundation  National Science Foundation	Direct	47.070	1854985	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	23,954 21,823	
National Science Foundation	Direct	47.070	ACI-1514580	NATIONAL SCIENCE FOUNDATION	(5,422)	
National Science Foundation	Direct	47.070	ACI-1566049	NATIONAL SCIENCE FOUNDATION	72,691	
National Science Foundation	Direct	47.070	CCF-1422262	NATIONAL SCIENCE FOUNDATION	173,102	-
National Science Foundation	Direct	47.070	CCF-1565719	NATIONAL SCIENCE FOUNDATION	54,775	-
National Science Foundation	Direct	47.070	CNS 1305358	NATIONAL SCIENCE FOUNDATION	156,047	-
National Science Foundation	Direct	47.070	CNS 1502462	NATIONAL SCIENCE FOUNDATION	38,047	12,145
National Science Foundation	Direct	47.070	CNS-1405273	NATIONAL SCIENCE FOUNDATION	158,697	79,741
National Science Foundation National Science Foundation	Direct Direct	47.070 47.070	CNS-1421407 CNS-1423221	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	13,525 9,207	
National Science Foundation	Direct	47.070	CNS-1502462	NATIONAL SCIENCE FOUNDATION	6,085	
National Science Foundation	Direct	47.070	CNS-1524296	NATIONAL SCIENCE FOUNDATION	106,171	-
National Science Foundation	Direct	47.070	CNS-1524520	NATIONAL SCIENCE FOUNDATION	(241)	-
National Science Foundation	Direct	47.070	CNS-1547015	NATIONAL SCIENCE FOUNDATION	8,038	-
National Science Foundation	Direct	47.070	CNS-1609339	NATIONAL SCIENCE FOUNDATION	75,192	-
National Science Foundation	Direct	47.070	CNS-1609339	NATIONAL SCIENCE FOUNDATION	65,534	-
National Science Foundation National Science Foundation	Direct Direct	47.070 47.070	IIS-1302285 IIS-1302285	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	24,609 4,000	-
National Science Foundation  National Science Foundation	Direct	47.070	IIS-1319909	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	12,688	-
National Science Foundation	Direct	47.070	IIS-1350253	NATIONAL SCIENCE FOUNDATION	75,034	
National Science Foundation	Direct	47.070	IIS-1350253	NATIONAL SCIENCE FOUNDATION	1,552	
National Science Foundation	Direct	47.070	IIS-1422316	NATIONAL SCIENCE FOUNDATION	16,092	-
National Science Foundation	Direct	47.070	IIS-1422316	NATIONAL SCIENCE FOUNDATION	1,948	-
National Science Foundation	Direct	47.070	IIS-1452479	NATIONAL SCIENCE FOUNDATION	101,295	-
National Science Foundation	Direct	47.070	IIS-1615612	NATIONAL SCIENCE FOUNDATION	87,941	
National Science Foundation  National Science Foundation	Direct	47.070	OAC-1835144	NATIONAL SCIENCE FOUNDATION	64,388	12,263
National Science Foundation National Science Foundation	Direct Direct	47.070 47.074	REU-1617682 0939454	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	(4,844) 19,512	-
National Science Foundation	Direct	47.074	0939454	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	11,987	7,809
National Science Foundation	Direct	47.074	1027253	NATIONAL SCIENCE FOUNDATION	18	-
National Science Foundation	Direct	47.074	1354085	NATIONAL SCIENCE FOUNDATION	5,321	
National Science Foundation	Direct	47.074	1444499	NATIONAL SCIENCE FOUNDATION	1,302,083	889,470
National Science Foundation	Direct	47.074	1444499	NATIONAL SCIENCE FOUNDATION	21,459	-
National Science Foundation	Direct	47.074	1455405	NATIONAL SCIENCE FOUNDATION	208,633	-
National Science Foundation	Direct	47.074	1455405	NATIONAL SCIENCE FOUNDATION	1,032	-
National Science Foundation	Direct	47.074	1456615	NATIONAL SCIENCE FOUNDATION	12,958	-
National Science Foundation  National Science Foundation	Direct Direct	47.074 47.074	1514706 1518366	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	(2,310) 62,496	-
National Science Foundation	Direct	47.074	1546617	NATIONAL SCIENCE FOUNDATION	523,914	172,210
National Science Foundation	Direct	47.074	1546617	NATIONAL SCIENCE FOUNDATION	178,013	-
National Science Foundation	Direct	47.074	1546617	NATIONAL SCIENCE FOUNDATION	112,504	-
National Science Foundation	Direct	47.074	1546617	NATIONAL SCIENCE FOUNDATION	71,205	-
National Science Foundation	Direct	47.074	1546617	NATIONAL SCIENCE FOUNDATION	53,145	-
National Science Foundation	Direct	47.074	1546657	NATIONAL SCIENCE FOUNDATION	874,020	392,339
National Science Foundation	Direct	47.074	1546657	NATIONAL SCIENCE FOUNDATION	321,754	-
National Science Foundation	Direct	47.074 47.074	1546657	NATIONAL SCIENCE FOUNDATION	10,164	-
National Science Foundation National Science Foundation	Direct Direct	47.074	1546657 1550686	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	1,361 16,719	
National Science Foundation	Direct	47.074	1550765	NATIONAL SCIENCE FOUNDATION	16,142	
National Science Foundation	Direct	47.074	1550765	NATIONAL SCIENCE FOUNDATION	9,876	-
National Science Foundation	Direct	47.074	1557324	NATIONAL SCIENCE FOUNDATION	177,887	-
National Science Foundation	Direct	47.074	1557324	NATIONAL SCIENCE FOUNDATION	19,120	-
National Science Foundation	Direct	47.074	1557437	NATIONAL SCIENCE FOUNDATION	53,977	-
National Science Foundation	Direct	47.074	1557657	NATIONAL SCIENCE FOUNDATION	45,284	-
National Science Foundation	Direct	47.074	1600556	NATIONAL SCIENCE FOUNDATION	70,764	-
National Science Foundation	Direct	47.074	1637653	NATIONAL SCIENCE FOUNDATION	304,510	-
National Science Foundation National Science Foundation	Direct Direct	47.074 47.074	1637653 1637653	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	90,854 69,377	-
National Science Foundation	Direct	47.074	1637653	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	64,325	-
National Science Foundation	Direct	47.074	1637653	NATIONAL SCIENCE FOUNDATION	58,147	
National Science Foundation	Direct	47.074	1637653	NATIONAL SCIENCE FOUNDATION	53,235	-
National Science Foundation	Direct	47.074	1637653	NATIONAL SCIENCE FOUNDATION	39,076	-
National Science Foundation	Direct	47.074	1637653	NATIONAL SCIENCE FOUNDATION	24,751	-
National Science Foundation	Direct	47.074	1637653	NATIONAL SCIENCE FOUNDATION	15,647	-
National Science Foundation	Direct	47.074	1637653	NATIONAL SCIENCE FOUNDATION	10,988	-
National Science Foundation	Direct	47.074	1637653	NATIONAL SCIENCE FOUNDATION	2,000	-
National Science Foundation National Science Foundation	Direct Direct	47.074 47.074	1638679 1638679	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	452,623 8,648	-
National Science Foundation	Direct	47.074	1638778	NATIONAL SCIENCE FOUNDATION	230,999	1,502
National Science Foundation	Direct	47.074	1638778	NATIONAL SCIENCE FOUNDATION	19,328	-
National Science Foundation	Direct	47.074	1644965	NATIONAL SCIENCE FOUNDATION	504,116	229,963
National Science Foundation	Direct	47.074	1644965	NATIONAL SCIENCE FOUNDATION	16,370	-
National Science Foundation	Direct	47.074	1655386	NATIONAL SCIENCE FOUNDATION	105,827	-
National Science Foundation	Direct	47.074	1655386	NATIONAL SCIENCE FOUNDATION	61,165	-
National Science Foundation	Direct	47.074	1655392	NATIONAL SCIENCE FOUNDATION	162,188	-
National Science Foundation  National Science Foundation	Direct Direct	47.074 47.074	1655392 1655394	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	12,566	-
National Science Foundation National Science Foundation	Direct	47.074 47.074	1655394 1655715	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	101,378 220,587	-
National Science Foundation	Direct	47.074	1655715	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	2,866	-
National Science Foundation	Direct	47.074	1701384	NATIONAL SCIENCE FOUNDATION	20,149	-
National Science Foundation	Direct	47.074	1701602	NATIONAL SCIENCE FOUNDATION	6,071	-
National Science Foundation	Direct	47.074	1701736	NATIONAL SCIENCE FOUNDATION	13,813	-
National Science Foundation	Direct	47.074	1701791	NATIONAL SCIENCE FOUNDATION	9,728	-
National Science Foundation	Direct	47.074	1702379	NATIONAL SCIENCE FOUNDATION	107,170	39,229
National Science Foundation	Direct	47.074	1702635	NATIONAL SCIENCE FOUNDATION	126,918	-
National Science Foundation	Direct	47.074	1702635	NATIONAL SCIENCE FOUNDATION	8,779	-

					Year Ended J	June 30, 2019
	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster						
(continued): National Science Foundation	Direct	47.074	1702635	NATIONAL SCIENCE FOUNDATION	\$ 5,000	\$ -
National Science Foundation	Direct	47.074	1714093	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	62,998	-
National Science Foundation	Direct	47.074	1714093	NATIONAL SCIENCE FOUNDATION	3,105	-
National Science Foundation	Direct	47.074	1714322	NATIONAL SCIENCE FOUNDATION	38,059	-
National Science Foundation	Direct	47.074	1714561	NATIONAL SCIENCE FOUNDATION	266,952	-
National Science Foundation National Science Foundation	Direct Direct	47.074 47.074	1714561 1714612	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	25,597 178,184	-
National Science Foundation	Direct	47.074	1719376	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	254,132	
National Science Foundation	Direct	47.074	1722621	NATIONAL SCIENCE FOUNDATION	124,399	-
National Science Foundation	Direct	47.074	1733552	NATIONAL SCIENCE FOUNDATION	133,808	-
National Science Foundation	Direct	47.074	1733633	NATIONAL SCIENCE FOUNDATION	869,466	358,515
National Science Foundation	Direct	47.074	1733633	NATIONAL SCIENCE FOUNDATION	238,767	-
National Science Foundation	Direct	47.074	1733633	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	27,066	-
National Science Foundation National Science Foundation	Direct Direct	47.074 47.074	1735934 1737898	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	246,836 263,376	-
National Science Foundation	Direct	47.074	1737898	NATIONAL SCIENCE FOUNDATION	3,186	-
National Science Foundation	Direct	47.074	1740874	NATIONAL SCIENCE FOUNDATION	235,672	125,005
National Science Foundation	Direct	47.074	1740874	NATIONAL SCIENCE FOUNDATION	211,395	-
National Science Foundation	Direct	47.074	1740874	NATIONAL SCIENCE FOUNDATION	103,675	-
National Science Foundation	Direct	47.074 47.074	1749544	NATIONAL SCIENCE FOUNDATION	95,373	-
National Science Foundation National Science Foundation	Direct Direct	47.074	1750003 1750125	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	112,273 72,860	
National Science Foundation	Direct	47.074	1754250	NATIONAL SCIENCE FOUNDATION	47,027	-
National Science Foundation	Direct	47.074	1754357	NATIONAL SCIENCE FOUNDATION	3,907	-
National Science Foundation	Direct	47.074	1754484	NATIONAL SCIENCE FOUNDATION	24,217	-
National Science Foundation	Direct	47.074	1755089	NATIONAL SCIENCE FOUNDATION	59,112	-
National Science Foundation	Direct	47.074	1757043	NATIONAL SCIENCE FOUNDATION	80,814	-
National Science Foundation National Science Foundation	Direct Direct	47.074 47.074	1757043 1757530	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	7,854 146,585	
National Science Foundation	Direct	47.074	1757530	NATIONAL SCIENCE FOUNDATION	14,239	-
National Science Foundation	Direct	47.074	1758091	NATIONAL SCIENCE FOUNDATION	195,141	66,000
National Science Foundation	Direct	47.074	1759729	NATIONAL SCIENCE FOUNDATION	4,895	-
National Science Foundation	Direct	47.074	1759892	NATIONAL SCIENCE FOUNDATION	14,082	-
National Science Foundation	Direct	47.074	1817307	NATIONAL SCIENCE FOUNDATION	73,111	-
National Science Foundation National Science Foundation	Direct Direct	47.074 47.074	1817324 1817347	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	67,779 101,454	-
National Science Foundation	Direct	47.074	1817347	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	5,794	
National Science Foundation	Direct	47.074	1817377	NATIONAL SCIENCE FOUNDATION	78,751	-
National Science Foundation	Direct	47.074	1817377	NATIONAL SCIENCE FOUNDATION	42,518	-
National Science Foundation	Direct	47.074	1818898	NATIONAL SCIENCE FOUNDATION	24,367	-
National Science Foundation	Direct	47.074	1822254	NATIONAL SCIENCE FOUNDATION	246,557	35,387
National Science Foundation National Science Foundation	Direct Direct	47.074 47.074	1822343 1822343	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	314,381 5,826	-
National Science Foundation	Direct	47.074	1831164	NATIONAL SCIENCE FOUNDATION	84,572	
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	233,104	
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	29,844	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	14,000	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	10,874	-
National Science Foundation National Science Foundation	Direct Direct	47.074 47.074	1832042 1832042	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	7,250 2,451	-
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	2,451	
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	1,725	
National Science Foundation	Direct	47.074	1832042	NATIONAL SCIENCE FOUNDATION	277	-
National Science Foundation	Direct	47.074	1841251	NATIONAL SCIENCE FOUNDATION	20,753	-
National Science Foundation	Direct	47.074	1845463	NATIONAL SCIENCE FOUNDATION	37,961	-
National Science Foundation National Science Foundation	Direct Direct	47.074 47.074	1919439 DBI 0939454	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	40,398 3,330,958	1.638.955
National Science Foundation	Direct	47.074	DBI 0939454	NATIONAL SCIENCE FOUNDATION	125,390	1,030,333
National Science Foundation	Direct	47.074	DBI-0953738	NATIONAL SCIENCE FOUNDATION	(28)	-
National Science Foundation	Direct	47.074	DBI-1356380	NATIONAL SCIENCE FOUNDATION	284,667	-
National Science Foundation	Direct	47.074	DBI-1460569	NATIONAL SCIENCE FOUNDATION	10,231	-
National Science Foundation National Science Foundation	Direct Direct	47.074 47.074	DBI-1460569 DEB 1027253	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	6,598 (290)	-
National Science Foundation	Direct	47.074	DEB 1027253 DEB 1027253	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	(1,036)	
National Science Foundation	Direct	47.074	DEB 1027253	NATIONAL SCIENCE FOUNDATION	(5,145)	
National Science Foundation	Direct	47.074	DEB-1145808	NATIONAL SCIENCE FOUNDATION	6,718	-
National Science Foundation	Direct	47.074	DEB-1257756	NATIONAL SCIENCE FOUNDATION	(728)	-
National Science Foundation	Direct	47.074	DEB-1354085	NATIONAL SCIENCE FOUNDATION	72,298	-
National Science Foundation National Science Foundation	Direct	47.074 47.074	DEB-1354414 DEB-1451740	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	44,106 89,957	31,928
National Science Foundation	Direct Direct	47.074	DEB-1431740 DEB-1518518	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	240,126	36,414
National Science Foundation	Direct	47.074	DEB-1547024	NATIONAL SCIENCE FOUNDATION	57,105	
National Science Foundation	Direct	47.074	DEB-1552197	NATIONAL SCIENCE FOUNDATION	100,689	-
National Science Foundation	Direct	47.074	DEB-1552197	NATIONAL SCIENCE FOUNDATION	12,073	-
National Science Foundation	Direct	47.074	DEB-1655425	NATIONAL SCIENCE FOUNDATION	29,880	-
National Science Foundation National Science Foundation	Direct	47.074	EF-1253225	NATIONAL SCIENCE FOUNDATION	390,228	8,614
National Science Foundation	Direct Direct	47.074 47.074	EF-1253225 EF-1340604	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	37,158 9,995	
National Science Foundation	Direct	47.074	EF-1340812	NATIONAL SCIENCE FOUNDATION	376,574	
National Science Foundation	Direct	47.074	IOS-1331218	NATIONAL SCIENCE FOUNDATION	64,757	-
National Science Foundation	Direct	47.074	IOS-1350772	NATIONAL SCIENCE FOUNDATION	75,000	-
National Science Foundation	Direct	47.074	IOS-1350772	NATIONAL SCIENCE FOUNDATION	8,725	
National Science Foundation National Science Foundation	Direct Direct	47.074 47.074	IOS-1353110 IOS-1354089	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	163,506 61,846	6,255
National Science Foundation  National Science Foundation	Direct	47.074 47.074	IOS-1354089 IOS-1354195	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	(26,140)	-
National Science Foundation	Direct	47.074	IOS-1354721	NATIONAL SCIENCE FOUNDATION	3,675	-
National Science Foundation	Direct	47.074	IOS-1456482	NATIONAL SCIENCE FOUNDATION	71,995	-
National Science Foundation	Direct	47.074	IOS-1456864	NATIONAL SCIENCE FOUNDATION	33,422	-
National Science Foundation	Direct	47.074	IOS-1847193	NATIONAL SCIENCE FOUNDATION	22,835	-
National Science Foundation	Direct	47.074	MCB-1243792	NATIONAL SCIENCE FOUNDATION	3,060	-
National Science Foundation National Science Foundation	Direct Direct	47.074 47.074	MCB-1243792 MCB-1243983	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	917 24,714	-
National Science Foundation	Direct	47.074	MCB-1243983 MCB-1243983	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	12,595	-
National Science Foundation	Direct	47.074	MCB-1330441	NATIONAL SCIENCE FOUNDATION	5,648	-
National Science Foundation	Direct	47.074	MCB-1330441	NATIONAL SCIENCE FOUNDATION	(1,189)	-
National Science Foundation	Direct	47.074	MCB-1330560	NATIONAL SCIENCE FOUNDATION	4,284	-
National Science Foundation	Direct	47.074	MCB-135594	NATIONAL SCIENCE FOUNDATION	(9,518)	-

### Schedule of Expenditures of Federal Awards (Continued)

Year Ended June 30, 2019

					rear Ended	Julie 30, 2019
	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster						
(continued):						
National Science Foundation	Direct	47.074	MCB-1413356	NATIONAL SCIENCE FOUNDATION	\$ 12,538	\$ -
National Science Foundation  National Science Foundation	Direct	47.074	MCB-1515002	NATIONAL SCIENCE FOUNDATION	142,855	-
National Science Foundation	Direct Direct	47.074 47.074	MCB-1515002 MCB-1515169	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	12,431 79,358	
National Science Foundation	Direct	47.074	MCB-1515169	NATIONAL SCIENCE FOUNDATION	30,123	
National Science Foundation	Direct	47.074	MCB-1517241	NATIONAL SCIENCE FOUNDATION	134,983	-
National Science Foundation	Direct	47.074	MCB-1517241	NATIONAL SCIENCE FOUNDATION	11,904	-
National Science Foundation	Direct	47.075	1338614	NATIONAL SCIENCE FOUNDATION	15,890	-
National Science Foundation	Direct	47.075	1540314	NATIONAL SCIENCE FOUNDATION	107,581	85,280
National Science Foundation	Direct	47.075	1556270	NATIONAL SCIENCE FOUNDATION	25,812	-
National Science Foundation	Direct	47.075	1559045	NATIONAL SCIENCE FOUNDATION	(287)	-
National Science Foundation	Direct	47.075	1560846	NATIONAL SCIENCE FOUNDATION	336,725	-
National Science Foundation	Direct	47.075	1560846	NATIONAL SCIENCE FOUNDATION	126,228	-
National Science Foundation	Direct	47.075	1630982	NATIONAL SCIENCE FOUNDATION	55,183	-
National Science Foundation	Direct	47.075	1638167	NATIONAL SCIENCE FOUNDATION	3,426	-
National Science Foundation	Direct	47.075	1654929	NATIONAL SCIENCE FOUNDATION	74,523	8,442
National Science Foundation	Direct	47.075	1658249	NATIONAL SCIENCE FOUNDATION	49,928	-
National Science Foundation	Direct	47.075	1728749	NATIONAL SCIENCE FOUNDATION	20,909	-
National Science Foundation	Direct	47.075	1728923	NATIONAL SCIENCE FOUNDATION	121,617	-
National Science Foundation	Direct	47.075	1728975	NATIONAL SCIENCE FOUNDATION	448	-
National Science Foundation	Direct	47.075	1734063	NATIONAL SCIENCE FOUNDATION	32,883	-
National Science Foundation	Direct	47.075	1734063	NATIONAL SCIENCE FOUNDATION	2,835	-
National Science Foundation	Direct	47.075 47.075	1734237 1744094	NATIONAL SCIENCE FOUNDATION	114,613	-
National Science Foundation  National Science Foundation	Direct Direct	47.075	1744094	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	(360) 6,444	
National Science Foundation  National Science Foundation	Direct	47.075	1753635	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	9,611	
National Science Foundation	Direct	47.075	1754863	NATIONAL SCIENCE FOUNDATION	55,469	
National Science Foundation	Direct	47.075	1756092	NATIONAL SCIENCE FOUNDATION	120,872	
National Science Foundation	Direct	47.075	1759528	NATIONAL SCIENCE FOUNDATION	108,617	20,165
National Science Foundation	Direct	47.075	1759587	NATIONAL SCIENCE FOUNDATION	212	20,103
National Science Foundation	Direct	47.075	1760254	NATIONAL SCIENCE FOUNDATION	59,132	
National Science Foundation	Direct	47.075	1823889	NATIONAL SCIENCE FOUNDATION	28,068	
National Science Foundation	Direct	47.075	1826773	NATIONAL SCIENCE FOUNDATION	8,087	
National Science Foundation	Direct	47.075	1826911	NATIONAL SCIENCE FOUNDATION	98,453	
National Science Foundation	Direct	47.075	1844694	NATIONAL SCIENCE FOUNDATION	23	
National Science Foundation	Direct	47.075	1851625	NATIONAL SCIENCE FOUNDATION	49,016	
National Science Foundation	Direct	47.075	1904083	NATIONAL SCIENCE FOUNDATION	51,924	
National Science Foundation	Direct	47.075	BCS-1149078	NATIONAL SCIENCE FOUNDATION	(242)	
National Science Foundation	Direct	47.075	BCS-1431063	NATIONAL SCIENCE FOUNDATION	1,905	-
National Science Foundation	Direct	47.075	BCS-1656133	NATIONAL SCIENCE FOUNDATION	76,106	-
National Science Foundation	Direct	47.075	BCS-1817665	NATIONAL SCIENCE FOUNDATION	15,308	-
National Science Foundation	Direct	47.075	SES-1449466	NATIONAL SCIENCE FOUNDATION	90,708	45,337
National Science Foundation	Direct	47.075	SES-1851928	NATIONAL SCIENCE FOUNDATION	8,262	-
National Science Foundation	Direct	47.075	SMA-1416730	NATIONAL SCIENCE FOUNDATION	147,627	96,034
National Science Foundation	Direct	47.076	1316908	NATIONAL SCIENCE FOUNDATION	61	-
National Science Foundation	Direct	47.076	1340048	NATIONAL SCIENCE FOUNDATION	268,691	-
National Science Foundation	Direct	47.076	1503211	NATIONAL SCIENCE FOUNDATION	190,432	-
National Science Foundation	Direct	47.076	1503211	NATIONAL SCIENCE FOUNDATION	6,697	-
National Science Foundation	Direct	47.076	1503277	NATIONAL SCIENCE FOUNDATION	812	-
National Science Foundation	Direct	47.076	1503277	NATIONAL SCIENCE FOUNDATION	(1,788)	-
National Science Foundation	Direct	47.076	1504786	NATIONAL SCIENCE FOUNDATION	(558)	-
National Science Foundation	Direct	47.076	1524128	NATIONAL SCIENCE FOUNDATION	121,908	-
National Science Foundation	Direct	47.076	1561122	NATIONAL SCIENCE FOUNDATION	60,595	-
National Science Foundation	Direct	47.076	1561159	NATIONAL SCIENCE FOUNDATION	110,970	-
National Science Foundation	Direct	47.076	1564745	NATIONAL SCIENCE FOUNDATION	160,216	-
National Science Foundation National Science Foundation	Direct Direct	47.076 47.076	1564745 1620580	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	20,987 383,118	-
National Science Foundation	Direct	47.076	1620746	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	231,102	
National Science Foundation	Direct	47.076	1620746	NATIONAL SCIENCE FOUNDATION	9,144	
National Science Foundation	Direct	47.076	1620934	NATIONAL SCIENCE FOUNDATION	261,313	
National Science Foundation	Direct	47.076	1620934	NATIONAL SCIENCE FOUNDATION	201,313	
National Science Foundation	Direct	47.076	1623824	NATIONAL SCIENCE FOUNDATION	172,797	
National Science Foundation	Direct	47.076	1643723	NATIONAL SCIENCE FOUNDATION	124,000	
National Science Foundation	Direct	47.076	1643723	NATIONAL SCIENCE FOUNDATION	40,977	-
National Science Foundation	Direct	47.076	1643833	NATIONAL SCIENCE FOUNDATION	70,285	
National Science Foundation	Direct	47.076	1643833	NATIONAL SCIENCE FOUNDATION	47,645	
National Science Foundation	Direct	47.076	1646869	NATIONAL SCIENCE FOUNDATION	66,939	-
National Science Foundation	Direct	47.076	1649981	NATIONAL SCIENCE FOUNDATION	33,203	-
National Science Foundation	Direct	47.076	1660643	NATIONAL SCIENCE FOUNDATION	105,403	-
National Science Foundation	Direct	47.076	1661064	NATIONAL SCIENCE FOUNDATION	184,341	-
National Science Foundation	Direct	47.076	1661236	NATIONAL SCIENCE FOUNDATION	422,345	-
National Science Foundation	Direct	47.076	1702592	NATIONAL SCIENCE FOUNDATION	30,380	-
National Science Foundation	Direct	47.076	1708506	NATIONAL SCIENCE FOUNDATION	83,346	73,552
National Science Foundation	Direct	47.076	1708664	NATIONAL SCIENCE FOUNDATION	53,519	-
National Science Foundation	Direct	47.076	1711260	NATIONAL SCIENCE FOUNDATION	77,266	-
National Science Foundation	Direct	47.076	1713060	NATIONAL SCIENCE FOUNDATION	114,984	-
National Science Foundation	Direct	47.076	1713197	NATIONAL SCIENCE FOUNDATION	47,213	-
National Science Foundation	Direct	47.076	1719950	NATIONAL SCIENCE FOUNDATION	12,146	-
National Science Foundation	Direct	47.076	1719950	NATIONAL SCIENCE FOUNDATION	3,577	
National Science Foundation	Direct	47.076	1725320	NATIONAL SCIENCE FOUNDATION	346,327	56,744
National Science Foundation	Direct	47.076	1725520	NATIONAL SCIENCE FOUNDATION	128,186	-
National Science Foundation	Direct	47.076	1725521	NATIONAL SCIENCE FOUNDATION	163,427	-
National Science Foundation	Direct	47.076	1725910	NATIONAL SCIENCE FOUNDATION	255,164	-
National Science Foundation	Direct	47.076 47.076	1725956	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	117,519	-
National Science Foundation	Direct	47.076	1741575		203,903	-
National Science Foundation	Direct	47.076	1741575	NATIONAL SCIENCE FOUNDATION NATIONAL SCIENCE FOUNDATION	15,861	234,469
National Science Foundation  National Science Foundation	Direct Direct	47.076 47.076	1742381 1742381	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	411,023 99,310	∠34,469
National Science Foundation  National Science Foundation	Direct	47.076	1812916	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	99,310 524	-
National Science Foundation  National Science Foundation	Direct	47.076	1813047	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	140,690	
National Science Foundation	Direct	47.076	1835946	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	4,983	-
National Science Foundation	Direct	47.076	1835946	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	1,500	-
National Science Foundation	Direct	47.076	1836685	NATIONAL SCIENCE FOUNDATION  NATIONAL SCIENCE FOUNDATION	41,095	
National Science Foundation	Direct	47.076	1836685	NATIONAL SCIENCE FOUNDATION	3,717	-
National Science Foundation	Direct	47.076	1842037	NATIONAL SCIENCE FOUNDATION	131,302	-
National Science Foundation	Direct	47.076	1848739	NATIONAL SCIENCE FOUNDATION	593,410	-
National Science Foundation	Direct	47.076	DGE-1424871	NATIONAL SCIENCE FOUNDATION	883,757	_
			-		200,101	

Transport System   Property   P		Direct/	CFDA			Total	Subaward
Married   Marr	Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
March   Marc	Research and Development Cluster						
Description of Transferred   1985	National Science Foundation	Direct	47.076	DGE-1438739	NATIONAL SCIENCE FOUNDATION	\$ 14,952	\$ -
April							96,643
March   Marc							-
April							-
Maries   M		Direct		DRL-1252439			4,702
March   Marc							-
Marcins September September   1986   1987   1988   1989							-
Marcian Functions   1975   1						, -,	-
Marchael Coloring Countries   1,275		Direct	47.076		NATIONAL SCIENCE FOUNDATION		130,202
Marie   Mari							-
Marion Secure Conditions							-
Accordance   Production   Speed   17   27   00   00   00   00   00   00   0							-
According	National Science Foundation	Direct		DRL-1420532			71,309
Mariand Stoner Fundation		Direct					557,506
Martined Source Foundation   Section   47.00   101.147933   103.100   100.14793   103.100   10							-
Martinal Source Feminden   Direct   4709							
Marcinal Survey Remarkson							
Marcian Series Fronting   Series   August   Au	National Science Foundation	Direct		DRL-1712834	NATIONAL SCIENCE FOUNDATION	184,884	73,928
Marical Sincer Foundation							
National Science Foundation   Dieset   47.076   DIESES   19.076   DIESES   DIESES							95,925
National Science Foundation							48.306
Martional Science Foundation   Princip   47.076   DUI 54125556   MartiOnal Science Foundation   4.072   Martinal Science Foundation   4.072   Martinal Science Foundation   Princip   4.076   Martinal Science Foundation   Princip   4.077   Martinal Science Foundation   Princip   4.078   Martinal Science Foundation							.,
National Science Foundation   Direct   47.07			47.076			799	-
Marband Science Providence							-
National Science Foundation							-
National Science Foundation							
National Science Foundation							-
National Science Foundation	National Science Foundation	Direct				-, -	-
National Science Foundation							-
National Science Foundation							
National Science Foundation   Direct   47.079   18.27093   18.27093   18.27093   18.27093   18.27093   18.27093   18.28094   National Science Foundation   Direct   47.079   18.28094   National Science Foundation   1.260   National Science Foundation   1.260							-
National Science Foundation   Direct   7.079   18.59394   NATIONAL SCIENCE FOUNDATION   1.326   1.32	National Science Foundation	Direct		1827093	NATIONAL SCIENCE FOUNDATION		-
National Science Foundation   Direct   47.079   IA-1399.110   NaTIONAL SCIENCE FOUNDATION   1,917   National Science Foundation   Direct   47.079   Oxid-1346484   NaTIONAL SCIENCE FOUNDATION   1,945   National Science Foundation   1,917   National Science Foundation   1,918   National Science Fo							-
National Science Foundation   Direct   47,079   Inc. 14,358110   NATIONAL SCIENCE FOUNDATION   1,354,555   1,354							-
National Science Foundation   Direct   47.079   Dist. 1546/48   NATIONAL SCIENCE FOUNDATION   1.001.07.300							
National Science Foundation   Pass-through   72   458   STANFORD RESEARCH INSTITUTE   3.3.61   4.3.7.77   1.3.6.7.1   1.3.6.							-
National Science Foundation   Past-Brough   47   4558   371AW ROB RESEARCH INSTITUTE   33.155   National Science Foundation   Past-Brough   47.041   4101-7104   PURDUE UNIVERSITY   79.975   18.076   National Science Foundation   Past-Brough   47.041   4100-7104   BOSTON UNIVERSITY   18.076   18.076   National Science Foundation   Past-Brough   47.041   4500002384   BOSTON UNIVERSITY   18.076   18.076   National Science Foundation   Past-Brough   47.041   4500002384   BOSTON UNIVERSITY   18.076   National Science Foundation   Past-Brough   47.041   4500002384   BOSTON UNIVERSITY   18.072   National Science Foundation   Past-Brough   47.041   4500002384   BOSTON UNIVERSITY   18.072   National Science Foundation   Past-Brough   47.041   53801PB   GORGON STATE UNIVERSITY   18.076   National Science Foundation   Past-Brough   47.041   53801PB   GORGON STATE UNIVERSITY   18.151   National Science Foundation   Past-Brough   47.049   2017-13   AMERICAN PHYSICAL SOCIETY   5,815   National Science Foundation   Past-Brough   47.049   2017-13   AMERICAN PHYSICAL SOCIETY   5,815   National Science Foundation   Past-Brough   47.049   2017-13   AMERICAN PHYSICAL SOCIETY   5,815   National Science Foundation   Past-Brough   47.049   2017-13   AMERICAN PHYSICAL SOCIETY   5,815   National Science Foundation   Past-Brough   47.049   2017-13   AMERICAN PHYSICAL SOCIETY   2017-2018-2018-2018-2018   National Science Foundation   Past-Brough   47.049   27.0491136552/2880   National Science Foundation   Past-Brough   47.050   2018-2880   National Science Found		Direct	47.079				-
National Science Foundation   Past-through   70-01   3003795364   UNIVERSITY OF MICHIGAN   64,159   1,0007000   1,0007000   1,0007		Direct Tota	al			81,943,723	8,433,779
National Science Foundation   Pass-through   47-061   410-71.016   PUBDUE UNIVERSITY   79,975     1,975	National Science Foundation	Pass-through	47	4558	STANFORD RESEARCH INSTITUTE	33,816	-
National Science Foundation   Past-through   47-081   4500007780   805700 NINVERSITY   13,076   - National Science Foundation   Past-through   47-081   4500002984   805700 NINVERSITY   13,623   - National Science Foundation   Past-through   47-081   450002984   805700 NINVERSITY   13,623   - National Science Foundation   Past-through   47-081   50,055   - National Science Foundation   Past-through   47-081   70,084							-
National Science Foundation   Pass-through   7-061   4500002944   805TON INVERSITY   6,359   -							-
National Science Foundation   Past-through 47.041   E204620-3   GEORE MASON UNIVERSITY   13,623   - National Science Foundation   Past-through 47.041   G0115-1   STATE OF FOUNDATION   39,212   - National Science Foundation   Past-through 47.049   200349346   ORIGIN STATE UNIVERSITY   60,656   - National Science Foundation   Past-through 47.049   200349346   ORIGIN STATE UNIVERSITY   5,815   - National Science Foundation   Past-through 47.049   200349346   ORIGIN STATE UNIVERSITY   5,815   - National Science Foundation   Past-through 47.049   3004423504   UNIVERSITY GEORGE MASON   255,956   - National Science Foundation   Past-through 47.049   3004423504   UNIVERSITY GEORGE MASON   255,956   - National Science Foundation   Past-through 47.049   300423504   UNIVERSITY GEORGE MASON   200349346   UNIVERSITY GEORGE MASON							-
National Science Foundation   Pass-through   47.041   Sal6837-8   OINES INDIVERSITY   5.0.656   National Science Foundation   Pass-through   47.049   2003/43946   JOINES INDIVERSITY   5.0.656   National Science Foundation   Pass-through   47.049   2004/43094   JOINES INDIVERSITY   5.0.556   National Science Foundation   Pass-through   47.049   3004/43094   JUNYESSITY OF MICHIGAN   7.0.044							-
National Science Foundation   Pass-through   47.094   2003489346   JOINES HOPPINS UNIVERSITY   5,635   National Science Foundation   Pass-through   47.094   2007-1313   AARBIECA PRINCES SCIETY   5,815   National Science Foundation   Pass-through   47.094   395609   INATIA RADIO SCIENCE FOUNDATION   7,094   National Science Foundation   Pass-through   47.094   37549/1135652/2R8D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   301,577   National Science Foundation   Pass-through   47.094   76749/1136552/2R8D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   301,577   National Science Foundation   Pass-through   47.094   76749/1136552/2R8D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6,777   National Science Foundation   Pass-through   47.094   76749/1136552/2R8D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6,777   National Science Foundation   Pass-through   47.095   76749/1136522/2R8D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6,777   National Science Foundation   Pass-through   47.095   76749/1136522/2R8D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6,777   National Science Foundation   Pass-through   47.095   76749/1136522/2R8D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6,777   NATIONAL SCIENCE Foundation   Pass-through   47.095   76749/1136522/2R8D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6,777   NATIONAL SCIENCE Foundation   Pass-through   47.095   76749/1136522/2R8D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   4,740   76749/1136522/2R8D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6,777   NATIONAL SCIENCE FOUNDATION   17,160	National Science Foundation	Pass-through	47.041		STATE OF COLORADO		-
National Science Foundation   Pass-through   47.049   2017-13   AMERICAN PHYSICAL SOCIETY   5.815   -   National Science Foundation   Pass-through   47.049   305423904   UNIVERSITY OF INCHICANO   256,596   -   National Science Foundation   Pass-through   47.049   76749/1136652/2R&D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   301,577   -   National Science Foundation   Pass-through   47.049   76749/1136652/2R&D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   47,125   -   National Science Foundation   Pass-through   47.049   76749/1136652/2R&D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   47,125   -   National Science Foundation   Pass-through   47.049   76749/1136652/2R&D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   47,125   -   National Science Foundation   Pass-through   47.049   76749/1136652/2R&D   UNIVERSITY OF THE UNIVERSITY OF CALIFORNIA - DAVIS   47,125   -   National Science Foundation   Pass-through   47.059   76749/1136652/2R&D   UNIVERSITY OF MEMORY ORK   414,796   -   National Science Foundation   Pass-through   47.050   20101122-45001   2004000000000000000000000000000000000							-
National Science Foundation   Pass-through   10-98   300442304   UNIVERSITY OF MICHIGAN   256.596   - National Science Foundation   Pass-through   10-98   37678/1136552/78RD   THE RECENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   301,577   National Science Foundation   Pass-through   47.099   7678/1136552/78RD   THE RECENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   47.125   - National Science Foundation   Pass-through   47.099   7678/1136552/78RD   THE RECENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6,977   National Science Foundation   Pass-through   47.099   7678/1136552/78RD   THE RECENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   382,435   - National Science Foundation   Pass-through   47.099   7678/1136552/78RD   THE RECENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   382,435   - National Science Foundation   Pass-through   47.099   7678/91136552/78RD   UNIVERSITY OF WISCONSIN - MADISON   171,446   National Science Foundation   Pass-through   47.050   10010192-MSU01   BOWLING GREEN UNIVERSITY   17,169   National Science Foundation   Pass-through   47.050   24 (G6009393)   COLUMBINITY   17,169   National Science Foundation   Pass-through   47.050   300446006   UNIVERSITY   0 MICHIGAN   66.555   National Science Foundation   Pass-through   47.050   300446006   UNIVERSITY   0 MICHIGAN   66.555   National Science Foundation   Pass-through   47.050   075994   BO FREEN'S O'THE UNIVERSITY   27.0564   National Science Foundation   Pass-through   47.050   075994   BO FREEN'S O'THE UNIVERSITY   47.072   National Science Foundation   Pass-through   47.050   UAF 19-0016   UNIVERSITY   0 ALSKA   72,228   National Science Foundation   Pass-through   47.050   UAF 19-0016   UNIVERSITY   0 ALSKA   8,001   4.00000   4.0000   4.0000   4.0000   4.0000   4.0000   4.0000   4.0000							-
National Science Foundation   Pass-through 47.099   7.094   National Science Foundation   Pass-through 47.099   7.6789/1136652/7.88.0   THE RECENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   301,577   - National Science Foundation   Pass-through 47.099   7.6789/1136652/7.88.0   THE RECENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6,977   - National Science Foundation   Pass-through 47.099   7.6789/1136652/7.88.0   THE RECENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6,977   - National Science Foundation   Pass-through 47.099   87.6789-1136652/2.8   STONY BROOK UNIVERSITY OF CALIFORNIA - DAVIS   6,977   - National Science Foundation   Pass-through 47.099   87.6789-1136652/2.8   STONY BROOK UNIVERSITY OF WISCONSIN - NADISON   17.1446   - National Science Foundation   Pass-through 47.050   100192-MSUID   BOWING REVER INVERSITY   17.69   - National Science Foundation   Pass-through 47.050   24 (16009393)   COLUMBAI UNIVERSITY   5,247   National Science Foundation   Pass-through 47.050   24 (16009393)   COLUMBAI UNIVERSITY   7.77   National Science Foundation   Pass-through 47.050   47.0614   47.050   47.0614							-
National Science Foundation   Pass-through   47.049   76749/1136652/288.D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6.977   - National Science Foundation   Pass-through   47.049   76749-1136652/28.D   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6.977   - National Science Foundation   Pass-through   47.049   76749-1136652/28   STONY BROOK UNIVERSITY   38.2.435   National Science Foundation   Pass-through   47.049   NF 68790   STATE UNIVERSITY OF NEW YORK   414,796   National Science Foundation   Pass-through   47.050   24 (GG009393)   COLUMBIAL UNIVERSITY   7.169   National Science Foundation   Pass-through   47.050   24 (GG009393)   COLUMBIAL UNIVERSITY   7.27   National Science Foundation   Pass-through   47.050   24 (GG009393)   COLUMBIAL UNIVERSITY   7.27   National Science Foundation   Pass-through   47.050   24 (GG009393)   COLUMBIAL UNIVERSITY   7.27   National Science Foundation   Pass-through   47.050   3004146006   UNIVERSITY   0.70   National Science Foundation   Pass-through   47.050							-
National Science Foundation   Pass-through   47,049   76.749/1136652/27.8ED   THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS   6,977   - 1,981   1,981							-
National Science Foundation         Pass-through         47.049         76749-1136652-2         STONY BROOK UNIVERSITY         382,435         -           National Science Foundation         Pass-through         47.049         NS 56879         UNIVERSITY OF NEW YORK         414,796         -           National Science Foundation         Pass-through         47.050         24 (560003933)         COLUMBA UNIVERSITY         5,247         -           National Science Foundation         Pass-through         47.050         24 (560003933)         COLUMBA UNIVERSITY         5,247         -           National Science Foundation         Pass-through         47.050         3004146006         UNIVERSITY OF MICHIGAN         66,355         -           National Science Foundation         Pass-through         47.050         3004146006         UNIVERSITY OF MICHIGAN         66,355         -           National Science Foundation         Pass-through         47.050         47988319057         VIRGINIA POLITECHNICINST         35,750         -           National Science Foundation         Pass-through         47.050         UAF19-008         UNIVERSITY OF ALASKA         72,228         -           National Science Foundation         Pass-through         47.070         3003466555         UNIVERSITY OF MICHIGAN         7,624 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></t<>							-
National Science Foundation   Pass-through   47,049   855(805   UNIVERSITY OF MISCONSIN - MADISON   17,446   1,446   1,4476   1,446   1,4476   1,446   1,4476   1,446   1,4476   1,446   1,4476   1,4476   1,446   1,4476							-
National Science Foundation   Pass-through   47,049   NSF 68790   STATE UNIVERSITY OF NEW YORK   414,796   -   National Science Foundation   Pass-through   47,050   24 (GG000383)   COLUMBA UNIVERSITY   5,247   -   National Science Foundation   Pass-through   47,050   24 (GG000383)   COLUMBA UNIVERSITY   27   -   National Science Foundation   Pass-through   47,050   30014,6506   UNIVERSITY OF MICHIGAN   66,355   -   National Science Foundation   Pass-through   47,050   30014,6506   UNIVERSITY OF MICHIGAN   66,355   -   National Science Foundation   Pass-through   47,050   47,050   675,8964   BD OF REGENTS OF THE UNIV WISC   27,664   -   National Science Foundation   Pass-through   47,050   UAF1 9-0046   UNIVERSITY OF ALASKA   72,228   -   National Science Foundation   Pass-through   47,070   UAF1 9-0083   UNIVERSITY OF ALASKA   8,201   -   National Science Foundation   Pass-through   47,070   3003846555   UNIVERSITY OF ALASKA   8,201   -   National Science Foundation   Pass-through   47,070   3003846555   UNIVERSITY OF MICHIGAN   147,334   -   National Science Foundation   Pass-through   47,070   3003846555   UNIVERSITY OF MICHIGAN   147,334   -   National Science Foundation   Pass-through   47,070   40,44103C   IUNIVERSITY OF MICHIGAN   1,477   -   National Science Foundation   Pass-through   47,070   40,44103C   IUNIVERSITY OF MICHIGAN   1,477   -   National Science Foundation   Pass-through   47,070   40,44103C   IUNIVERSITY   1,477   -   National Science Foundation   Pass-through   47,070   40,44103C   IUNIVERSITY   4,348   -   National Science Foundation   Pass-through   47,070   40,44103C   IUNIVERSITY   4,348   -   National Science Foundation   Pass-through   47,074   10,02973-01   NORTHERN ARIZONA UNIVERSITY   2,851   -   National Science Foundation   Pass-through   47,074   10,02973-01   NORTHERN ARIZONA UNIVERSITY   1,652   -   National Science Foundation   Pass-through   47,074   10,02973-01   NORTHERN ARIZONA UNIVERSITY   1,0020   -   National Science Foundation   Pass-through   47,074   10,02973-0							-
National Science Foundation							-
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National Science Foundation				/			-
National Science Foundation   Pass-through   47.050   47.050   675K964   BD OF REGENTS OF THE UNIV WISC   27,664   -7.050   A7.050   A7.				, ,			-
National Science Foundation         Pass-through         47.050         G75/964         BD OR REGENTS OF THE UNIVERSITY OF ALASKA         27,664         -           National Science Foundation         Pass-through         47.050         UAF 19-0083         UNIVERSITY OF ALASKA         8,201         -           National Science Foundation         Pass-through         47.070         3003646555         UNIVERSITY OF MICHIGAN         147.334         -           National Science Foundation         Pass-through         47.070         3003646555         UNIVERSITY OF MICHIGAN         7,624         -           National Science Foundation         Pass-through         47.070         4044103C         10WA 5TATE UNIVERSITY         1,477         -           National Science Foundation         Pass-through         47.070         409590-19057         VIRGINIAP POLYTECHNIC INST         47,422         -           National Science Foundation         Pass-through         47.074         1002973-01         NORTHERN ARIZONA UNIVERSITY         2,851         -           National Science Foundation         Pass-through         47.074         1002973-01         NORTHERN ARIZONA UNIVERSITY         1,652         -           National Science Foundation         Pass-through         47.074         1002973-01         NORTHERN ARIZONA UNIVERSITY							-
Alational Science Foundation         Pass-through         47.070         3003646555         UNIVERSITY OF ALASKA         8,201         -           National Science Foundation         Pass-through         47.070         3003646555         UNIVERSITY OF MICHIGAN         17,334         -           National Science Foundation         Pass-through         47.070         4044103C         IOWA STATE UNIVERSITY         1,477         -           National Science Foundation         Pass-through         47.070         4044103C         IOWA STATE UNIVERSITY         1,477         -           National Science Foundation         Pass-through         47.070         U-100987-1         CLARKSON UNIVERSITY         4,348         -           National Science Foundation         Pass-through         47.074         1002973-01         NORTHERN ARIZONA UNIVERSITY         2,851         -           National Science Foundation         Pass-through         47.074         1002973-01         NORTHERN ARIZONA UNIVERSITY         7.16         -           National Science Foundation         Pass-through         47.074         1002973-01         NORTHERN ARIZONA UNIVERSITY         7.16         -           National Science Foundation         Pass-through         47.074         1052973-01         NORTHERN ARIZONA UNIVERSITY         30,324 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></th<>							-
National Science Foundation   Pass-through   47,070   3003646555   UNIVERSITY OF MICHIGAN   17,334   7,7524	National Science Foundation		47.050	UAF 19-0046	UNIVERSITY OF ALASKA	72,228	-
National Science Foundation         Pass through         4 7,070         3003646555         UNIVERSITY OF MICHIGAN         7,624         -           National Science Foundation         Pass through         47,070         4044103C         IOWA STATE UNIVERSITY         1,477         -           National Science Foundation         Pass through         47,070         U-100987-1         CLARKSON UNIVERSITY         4,348         -           National Science Foundation         Pass through         47,074         1002973-01         NORTHERN ARIZONA UNIVERSITY         2,851         -           National Science Foundation         Pass through         47,074         1002973-01         NORTHERN ARIZONA UNIVERSITY         1,652         -           National Science Foundation         Pass through         47,074         1002973-01         NORTHERN ARIZONA UNIVERSITY         716         -           National Science Foundation         Pass through         47,074         1002973-01         NORTHERN ARIZONA UNIVERSITY         716         -           National Science Foundation         Pass through         47,074         1002973-01         NORTHERN ARIZONA UNIVERSITY         30,324         -           National Science Foundation         Pass through         47,074         125-571         ARIZONA STATE UNIVERSITY         81,000							-
National Science Foundation         Pass-through         4 7,070         4044103C         IOWA STATE UNIVERSITY         1,477         -           National Science Foundation         Pass-through         47,070         47959-19057         VIRGINIA POLYTECHNIC INST         47,422         -           National Science Foundation         Pass-through         47,070         U-100987-1         CLARKSON UNIVERSITY         2,851         -           National Science Foundation         Pass-through         47,074         1002973-01         NORTHERN ARIZONA UNIVERSITY         1,652         -           National Science Foundation         Pass-through         47,074         1002973-01         NORTHERN ARIZONA UNIVERSITY         1,652         -           National Science Foundation         Pass-through         47,074         1002973-01         NORTHERN ARIZONA UNIVERSITY         716         -           National Science Foundation         Pass-through         47,074         1457323MSU         ALMA COLLEGE         (97)         -           National Science Foundation         Pass-through         47,074         17,534         17,214         UNIVERSITY OF KEYADA RENO         154,366         -           National Science Foundation         Pass-through         47,074         2015-984-001         SAMUEL ROBERTS NOBLE FOUNDATION							-
National Science Foundation         Pass-through         4 7,070         4 75950-19057         VIRGINIA POLYTECHNIC INST         47,422         -           National Science Foundation         Pass-through         47,070         U-100987-1         CLARSON UNIVERSITY         4,348         -           National Science Foundation         Pass-through         47,074         1002973-01         NORTHERN ARIZONA UNIVERSITY         1,652         -           National Science Foundation         Pass-through         47,074         1002973-01         NORTHERN ARIZONA UNIVERSITY         1,652         -           National Science Foundation         Pass-through         47,074         1002973-01         NORTHERN ARIZONA UNIVERSITY         7,16         -           National Science Foundation         Pass-through         47,074         1457323MSU         ALMA COLLEGE         (97)         -           National Science Foundation         Pass-through         47,074         15-571         ARIZONA STATE UNIVERSITY         30,324         -           National Science Foundation         Pass-through         47,074         17-15340         UNIVERSITY OF REVIDLEY         53,169         -           National Science Foundation         Pass-through         47,074         2014-034-01         NORTH CAROLINA STATE UNIVERSITY         40,147							
National Science Foundation         Pass-through         47.074         1002973-01         NORTHERN ARIZONA UNIVERSITY         2,851         -           National Science Foundation         Pass-through         47.074         1002973-01         NORTHERN ARIZONA UNIVERSITY         1,652         -           National Science Foundation         Pass-through         47.074         1002973-01         NORTHERN ARIZONA UNIVERSITY         716         -           National Science Foundation         Pass-through         47.074         1457323MSU         ALMA COLLEGE         (97)         -           National Science Foundation         Pass-through         47.074         17.630         UNIVERSITY OF KENTUCKY         53,169         -           National Science Foundation         Pass-through         47.074         17.21         UNIVERSITY OF NEVADA RENO         154,366         -           National Science Foundation         Pass-through         47.074         216-0347-01         NORTH CARCULAS STATE UNIVERSITY         40,147         -           National Science Foundation         Pass-through         47.074         2016-0347-01         NORTH CARCULAS STATE UNIVERSITY         40,147         -           National Science Foundation         Pass-through         47.074         2015-984-001         SAMUEL ROBERTS NOBLE FOUNDATION <td< td=""><td></td><td></td><td></td><td></td><td>VIRGINIA POLYTECHNIC INST</td><td></td><td>-</td></td<>					VIRGINIA POLYTECHNIC INST		-
National Science Foundation         Pass-through         47.074         1002973-01         NORTHERN ARIZONA UNIVERSITY         1,652         -           National Science Foundation         Pass-through         47.074         1002973-01         NORTHERN ARIZONA UNIVERSITY         716         -           National Science Foundation         Pass-through         47.074         1457323M/SU         ALMA COLLGE         (97)         -           National Science Foundation         Pass-through         47.074         15-571         ARIZONA STATE UNIVERSITY         30,324         -           National Science Foundation         Pass-through         47.074         17-6340         UNIVERSITY OF NEVADA RENO         154,366         -           National Science Foundation         Pass-through         47.074         2014-0347-01         NORTH CAROLINA STATE UNIVERSITY         40,147         -           National Science Foundation         Pass-through         47.074         2014-0347-01         NORTH CAROLINA STATE UNIVERSITY         40,147         -           National Science Foundation         Pass-through         47.074         2012-394-01         SAMUEL ROBERTS NOBLE FOUNDATION         170,101         -           National Science Foundation         Pass-through         47.074         4010-80632         PURDUE UNIVERSITY         10,							-
National Science Foundation         Pass-through         47.074         1002973-01         NORTHERN ARIZONA UNIVERSITY         7.16         -           National Science Foundation         Pass-through         47.074         14573233MSU         ALMA COLLEGE         (97)         -           National Science Foundation         Pass-through         47.074         15-571         ARIZONA STATE UNIVERSITY         30,324         -           National Science Foundation         Pass-through         47.074         176340         UNIVERSITY OF KENTUCKY         53,169         -           National Science Foundation         Pass-through         47.074         2014-0347-01         NORTH CAROLINA STATE UNIVERSITY         40,147         -           National Science Foundation         Pass-through         47.074         2015-984-001         SAMUEL ROBERTS NOBLE FOUNDATION         171,010         -           National Science Foundation         Pass-through         47.074         401-80632         PURDUE UNIVERSITY         10,704         34,112         -           National Science Foundation         Pass-through         47.074         401-80632         PURDUE UNIVERSITY         10,704         -           National Science Foundation         Pass-through         47.074         401-80632         PURDUE UNIVERSITY         113,323 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>							-
National Science Foundation         Pass-through         47.074         1457323MSU         ALMA COLLEGE         (97)         -           National Science Foundation         Pass-through         47.074         15.571         ARIZONA STATE UNIVERSITY         30,324         -           National Science Foundation         Pass-through         47.074         17.16340         UNIVERSITY OF REVADA RENO         154,366         -           National Science Foundation         Pass-through         47.074         2014-0347-01         NORTH CAROLINA STATE UNIVERSITY         40,147         -           National Science Foundation         Pass-through         47.074         2015-984-001         SAMUEL ROBBERTS NOBLE FOUNDATION         170,101         -           National Science Foundation         Pass-through         47.074         202236         UNIVERSITY OF NOTRE DAME         34,112         -           National Science Foundation         Pass-through         47.074         4011-80632         PURDUE UNIVERSITY         10,704         -           National Science Foundation         Pass-through         47.074         4206-608         IOWA STATE UNIVERSITY         113,323         -           National Science Foundation         Pass-through         47.074         4201         53,169         -           Natio							-
National Science Foundation         Pass through         47.074         15-571         ARIZONA STATE UNIVERSITY         30,324         -           National Science Foundation         Pass-through         47.074         1716340         UNIVERSITY OF KENTUCKY         53,169         -           National Science Foundation         Pass-through         47.074         2014-0347-01         NORTH CAROLINA STATE UNIVERSITY         40,147         -           National Science Foundation         Pass-through         47.074         2014-0347-01         NORTH CAROLINA STATE UNIVERSITY         40,147         -           National Science Foundation         Pass-through         47.074         2012-398-001         SAMUEL ROBERTS NOBLE FOUNDATION         171,010         -           National Science Foundation         Pass-through         47.074         4018-80632         PURDUE UNIVERSITY         10,704         -           National Science Foundation         Pass-through         47.074         4018-80632         PURDUE UNIVERSITY         10,704         939,872         -           National Science Foundation         Pass-through         47.074         4206-608         100M STATE UNIVERSITY         13,323         -           National Science Foundation         Pass-through         47.074         50124-1         THE FIELD MUSEUM							-
National Science Foundation   Pass-through   47.074   17.16340   UNIVERSITY OF KENTUCKY   53,169   - 1							-
National Science Foundation         Pass-through         47.074         2014-0347-01         NORTH CAROLINA STATE UNIVERSITY         40,147         -           National Science Foundation         Pass-through         47.074         2012-984-001         SAMUEL ROBERTS NOBLE FOUNDATION         171,010         -           National Science Foundation         Pass-through         47.074         2022.36         UNIVERSITY OF NOTRE DAME         34,112         -           National Science Foundation         Pass-through         47.074         401-80632         PURDUE UNIVERSITY         10,704         99,872         -           National Science Foundation         Pass-through         47.074         42271         SAINT LOUIS UNIVERSITY         113,323         -           National Science Foundation         Pass-through         47.074         50124-1         THE FIELD MUSEUM         450         -           National Science Foundation         Pass-through         47.074         138-0247-5001         UNIVERSITY OF TENNESSEE KNOXVILLE         20,508         -           National Science Foundation         Pass-through         47.074         R18-0247-5001         UNIVERSITY OF EDNESSEE KNOXVILLE         20,508         -           National Science Foundation         Pass-through         47.074         R8167-629/5001557         UNIVER		Pass-through	47.074	1716340		53,169	-
National Science Foundation         Pass-through         47.074         2015-984-001         SAMUEL ROBERTS NOBLE FOUNDATION         171,010         -           National Science Foundation         Pass-through         47.074         202236         UNIVERSITY OF NOTRE DAME         34,112         -           National Science Foundation         Pass-through         47.074         4101-80632         PURDUE UNIVERSITY         319,872         -           National Science Foundation         Pass-through         47.074         420-66-08B         IOWA STATE UNIVERSITY         319,872         -           National Science Foundation         Pass-through         47.074         42271         SAINT LOUIS UNIVERSITY         113,323         -           National Science Foundation         Pass-through         47.074         50124-1         THE FIELD MUSEUM         450         -           National Science Foundation         Pass-through         47.074         148-0247-5001         WESTERN MICHIGAN UNIVERSITY         (2,04)         -           National Science Foundation         Pass-through         47.074         CB2960-58-897821         UNIVERSITY OF IDAHO         33,90,985         -           National Science Foundation         Pass-through         47.074         RRIG7-629/S001557         UNIVERSITY OF GEORGIA         390,985							-
National Science Foundation         Pass through         47.074         202236         UNIVERSITY OF NOTRE DAME         34,112         -           National Science Foundation         Pass-through         47.074         420.66.088         IOWA STATE UNIVERSITY         10,704         -           National Science Foundation         Pass-through         47.074         42271         SAINT LOUIS UNIVERSITY         113,323         -           National Science Foundation         Pass-through         47.074         50124-1         THE FIELD MUSEUM         450         -           National Science Foundation         Pass-through         47.074         739-MSU         WESTERN MICHIGAN UNIVERSITY         (2,204)         -           National Science Foundation         Pass-through         47.074         418-0247-5001         UNIVERSITY OF TENNESSEE KNOXVILLE         20,508         -           National Science Foundation         Pass-through         47.074         CB2960-SB-897821         UNIVERSITY OF IDAHO         33,91         -           National Science Foundation         Pass-through         47.074         RRIST-629/5001557         UNIVERSITY OF GEORGIA         390,985         -							-
National Science Foundation         Pass-through Pass-through         4 7,074 4 101-80632         PURDUE UNIVERSITY         10,704 391,872         -           National Science Foundation         Pass-through Pass-through 47,074 4 2271         420-66-08B 10WA STATE UNIVERSITY         391,872         -           National Science Foundation         Pass-through 47,074 50124-1         THE FIELD MUSEUM         450         -           National Science Foundation         Pass-through 47,074 50124-1         THE FIELD MUSEUM         450         -           National Science Foundation         Pass-through 47,074 47,074 729-MSU         WESTERN MICHIGAN UNIVERSITY         (2,204)         -           National Science Foundation         Pass-through 47,074 47,074 720-1         UNIVERSITY OF TENNESSEE KNOXVILLE         20,508         -           National Science Foundation         Pass-through 47,074 70,774 8167-629/S001557         UNIVERSITY OF GEORGIA         390,985         -							-
National Science Foundation         Pass-through         4 7.074         4 20-66-08B         IOWA STATE UNIVERSITY         391,872         -           National Science Foundation         Pass-through         4 7.074         4 2271         SAINT LOUIS UNIVERSITY         113,323         -           National Science Foundation         Pass-through         4 7.074         4 50124-1         THE FIELD MUSEUM         4 50         -           National Science Foundation         Pass-through         4 7.074         4 78-034         UNIVERSITY OF TENNESSEE KNOXVILLE         20,508         -           National Science Foundation         Pass-through         4 7.074         CR2960-58-897811         UNIVERSITY OF IDAHO         3,381         -           National Science Foundation         Pass-through         4 7.074         RR167-629/S001557         UNIVERSITY OF GEORGIA         390,985         -							-
National Science Foundation         Pass-through         47.074         50124-1         THE FIELD MUSEUM         45.00         -           National Science Foundation         Pass-through         47.074         793-MSU         WESTERN MICHIGAN UNIVERSITY         (2,204)         -           National Science Foundation         Pass-through         47.074         A18-0247-S001         UNIVERSITY OF TENNESSEE KNOXVILLE         20,508         -           National Science Foundation         Pass-through         47.074         C82960-58-897821         UNIVERSITY OF IDAHO         3,381         -           National Science Foundation         Pass-through         47.074         R167-629/S001557         UNIVERSITY OF GEORGIA         390,985         -	National Science Foundation	Pass-through	47.074	420-66-08B	IOWA STATE UNIVERSITY	391,872	-
National Science Foundation         Pass - through         47.074         793-MSU         WESTERN MICHIGAN UNIVERSITY         (2,204)         -           National Science Foundation         Pass - through         47.074         A18-0247-5001         UNIVERSITY OF TENNESSEE KNOXVILLE         20,508         -           National Science Foundation         Pass - through         47.074         CB2960-S8-897821         UNIVERSITY OF IDAHO         3,381         -           National Science Foundation         Pass - through         47.074         RR167-629/S001557         UNIVERSITY OF GEORGIA         390,985         -							-
National Science Foundation         Pass-through         47.074         A18-0247-S001         UNIVERSITY OF TENNESSEE KNOXVILLE         20,508         -           National Science Foundation         Pass-through         47.074         CB2960-S8-897821         UNIVERSITY OF IDAHO         3,381         -           National Science Foundation         Pass-through         47.074         RR167-629/S001557         UNIVERSITY OF GEORGIA         390,985         -							-
National Science Foundation         Pass-through         47.074         CB2960-SB-897821         UNIVERSITY OF IDAHO         3,381         -           National Science Foundation         Pass-through         47.074         RR167-629/S001557         UNIVERSITY OF GEORGIA         390,985         -							-
National Science Foundation Pass-through 47.074 RR167-629/S001557 UNIVERSITY OF GEORGIA 390,985 -							-
National Science Foundation Pass-through 47.074 SUBK00008579 UNIVERSITY OF MICHIGAN 14,317 -		Pass-through	47.074				-
	National Science Foundation	Pass-through	47.074	SUBKU0008579	UNIVERSITY OF MICHIGAN	14,317	-

					Year Ended	une 30, 2019
Federal Agency	Direct/ Pass-through	CFDA (Note 5)	Award Number	Grantor Name	Total Expenditures	Subaward Payments
Research and Development Cluster						•
(continued): National Science Foundation	Dane Abrasiah	47.074	UFDSP00010707	UNIVERSITY OF FLORIDA	\$ 71,090	\$ -
National Science Foundation  National Science Foundation	Pass-through Pass-through	47.074	129152	ARIZONA STATE UNIVERSITY	3,817	, -
National Science Foundation	Pass-through	47.075	17-009496 A	UNIVERSITY OF MASSACHUSETTS	9,016	_
National Science Foundation	Pass-through	47.075	GTK137-SB-002	UNIVERSITY OF IDAHO	19,361	-
National Science Foundation	Pass-through	47.076	1555285	UNIVERSITY OF COLORADO AT BOULDER	6,393	-
National Science Foundation	Pass-through	47.076	16043-003	MISSOURI STATE UNIV	16,859	-
National Science Foundation	Pass-through	47.076	16043-003	MISSOURI STATE UNIV	5,493	-
National Science Foundation	Pass-through	47.076	3003620154	UNIVERSITY OF MICHIGAN	1	-
National Science Foundation National Science Foundation	Pass-through	47.076 47.076	3004280408 3004280408	UNIVERSITY OF MICHIGAN UNIVERSITY OF MICHIGAN	47,630 27,821	-
National Science Foundation	Pass-through Pass-through	47.076	4101-65235	PURDUE UNIVERSITY	(2,223)	
National Science Foundation	Pass-through	47.076	415908-G	UNIVERSITY OF ROCHESTER	3,319	
National Science Foundation	Pass-through	47.076	64155-1	NORTHERN ILLINOIS UNIVERSITY	6,816	-
National Science Foundation		47.076	782K493	UNIVERSITY OF WISCONSIN - MADISON	20,114	-
National Science Foundation	Pass-through	47.076	782K493	UNIVERSITY OF WISCONSIN - MADISON	2,635	-
National Science Foundation		47.076	856K424	UNIVERSITY OF WISCONSIN	33,829	-
National Science Foundation	Pass-through	47.076	879K815	UNIVERSITY OF WISCONSIN	30,293	-
National Science Foundation	Pass-through	47.076	9109-0003	ASSOCIATED UNIVERSITIES INC	14,586	-
National Science Foundation National Science Foundation		47.076 47.076	GA11161 150025 Z4625001	UNIVERSITY OF VIRGINIA UNIVERSITY OF MARYLAND	144,711	-
National Science Foundation  National Science Foundation	Pass-through Pass-through	47.076	OISE-1243433	DUKE UNIVERSITY	28,167 182,094	-
National Science Foundation		47.079	OISE-16-62750-0	CRDF GLOBAL	18,212	
National Science Foundation	Pass-throu		0132-10-02730-0	CROI GEODAE	4,559,269	-
		cience Found	ation Total		86,502,992	8,433,779
State				STATE HE DEDARTMENT OF		
State State	Direct Direct	19 19	19AQMM18P1791 19AQMM18P1798	STATE US DEPARTMENT OF STATE US DEPARTMENT OF	7,418 7,696	-
State	Direct	19	19AQMM18P2520	STATE US DEPARTMENT OF	20,000	
State	Direct	19	SAQMMA15M2452	STATE US DEPARTMENT OF STATE US DEPARTMENT OF	(925)	-
State	Direct	19.345	S-LMAQM-17-GR-1177	STATE US DEPARTMENT OF	156,813	-
	State Total				191,002	-
Tananastation			DTFH61-3-H-00009	FEDERAL HIGHWAY ADMINISTRATION		
Transportation Transportation	Direct Direct	20.200 20.701	DTFH61-3-H-00009 DTRT13-G-UTC44	TRANSPORTATION US DEPT OF	(1,002) 322,921	270,154
Transportation	Direct	20.701	DTRT13-G-UTC44	TRANSPORTATION US DEPT OF	15,693	270,134
Transportation	Direct	20.701	DTRT13-G-UTC44	TRANSPORTATION US DEPT OF	10,509	-
Transportation	Direct	20.701	DTRT13-G-UTC44	TRANSPORTATION US DEPT OF	5,368	_
Transportation	Direct	20.701	DTRT13-G-UTC44	TRANSPORTATION US DEPT OF	3,320	-
Transportation	Direct	20.724	693JK31850007	TRANSPORTATION US DEPT OF	33,619	-
	Direct Tota	ıl			390,428	270,154
Transportation	Pass-through	20	17-44	ENGINEERING AND SOFTWARE CONSULTANTS, INC (ESC)	2,739	-
Transportation		20	2013-0066	MICHIGAN DEPARTMENT OF TRANSPORTATION	221,321	76,544
Transportation	Pass-through	20	2013-0066 Z8	MICHIGAN DEPARTMENT OF TRANSPORTATION	55,664	41,226
Transportation	Pass-through	20	2018-0045	MICHIGAN DEPARTMENT OF TRANSPORTATION	10,885	-
Transportation	Pass-through	20	404-77-50	IOWA STATE UNIVERSITY	5,753	-
Transportation		20	436-17-42B	IOWA STATE UNIVERSITY	314,709	-
Transportation	Pass-through		436-17-48B	IOWA STATE UNIVERSITY	106,393	-
Transportation		20	OP-18-02	MICHIGAN STATE POLICE	43,115	18,755
Transportation		20	OP-18-05 2018-0813	MICHIGAN STATE POLICE MICHIGAN DEPARTMENT OF TRANSPORTATION	73,088	-
Transportation Transportation	Pass-through Pass-through	20.200 20.505	2013-0066-Z10	MICHIGAN DEPARTMENT OF TRANSPORTATION MICHIGAN DEPARTMENT OF TRANSPORTATION	64,177 124,914	-
Transportation	Pass-through	20.505	2013-0066-Z11	MICHIGAN DEPARTMENT OF TRANSPORTATION	10,202	-
Transportation	Pass-through	20.505	2018-0074	MICHIGAN DEPARTMENT OF TRANSPORTATION	39,204	_
Transportation	Pass-through	20.505	2019-0275	MICHIGAN DEPARTMENT OF TRANSPORTATION	9,227	-
Transportation	Pass-through	20.505	2019-0289	MICHIGAN DEPARTMENT OF TRANSPORTATION	8,465	-
Transportation	Pass-through	20.505	2019-0295	MICHIGAN DEPARTMENT OF TRANSPORTATION	3,041	-
Transportation	Pass-through	20.505	2019-0369	MICHIGAN DEPARTMENT OF TRANSPORTATION	8,793	-
Transportation	Pass-through	20.724	17-158	ARIZONA STATE UNIVERSITY	12,186	-
Transportation		20.724	401493-5801	COLORADO SCHOOL OF MINES	11,628	-
Transportation	Pass-through		FY16.675.001	REGENTS OF UNIV OF COLORADO	38,858	-
Transportation	Pass-through		FY16.675.001	UNIVERSITY OF COLORADO - DENVER	35,414	120 525
	Pass-throu Transporta				1,199,776 1,590,204	136,525 406,679
	•					400,075
Treasury	Pass-through		App 143072/154144	MICHIGAN HOMEOWNER ASSISTANCE	129,440	-
	Treasury T	otal			129,440	-
USAID	Direct	98.001	155588	US AGENCY FOR INTERNATIONAL DEVELOPMENT	17	-
USAID	Direct	98.001	611-A-00-11-00001-00	US AGENCY FOR INTERNATIONAL DEVELOPMENT	(52)	-
USAID	Direct	98.001	7200AA18LE00003	US AGENCY FOR INTERNATIONAL DEVELOPMENT	605,491	48,950
USAID	Direct	98.001	7200AA18LE00003	US AGENCY FOR INTERNATIONAL DEVELOPMENT	12,468	
USAID	Direct	98.001	AID-482-LA-14-00003	US AGENCY FOR INTERNATIONAL DEVELOPMENT	1,150,624	252,938
USAID USAID	Direct Direct	98.001 98.001	AID-612-LA-15-00001 AID-620-LA-15-00001	US AGENCY FOR INTERNATIONAL DEVELOPMENT US AGENCY FOR INTERNATIONAL DEVELOPMENT	594,917 2,525,862	105,458 1,983,190
USAID	Direct	98.001	AID-685-LA-15-00001	US AGENCY FOR INTERNATIONAL DEVELOPMENT	2,915,752	2,782,299
USAID	Direct	98.001	AID-688-A-16-00001	US AGENCY FOR INTERNATIONAL DEVELOPMENT	818,798	22,806
USAID	Direct	98.001	AID-OAA-A-15-00056	US AGENCY FOR INTERNATIONAL DEVELOPMENT	1,932,458	919,042
USAID	Direct	98.001	AID-OAA-L13-00001	US AGENCY FOR INTERNATIONAL DEVELOPMENT	1,923,485	75,294
USAID	Direct	98.001	AID-OAA-L13-00001	US AGENCY FOR INTERNATIONAL DEVELOPMENT	473,361	90,755
USAID	Direct	98.001	AID-OAA-L-13-00001	US AGENCY FOR INTERNATIONAL DEVELOPMENT	2,317,315	1,108,255
USAID	Direct	98.001	AID-OAA-L-13-00001	US AGENCY FOR INTERNATIONAL DEVELOPMENT	176,244	120,671
USAID	Direct	98.001	AID-OAA-L-13-00001	US AGENCY FOR INTERNATIONAL DEVELOPMENT	141,917	101,367
USAID	Direct	98.001	AID-OAA-L-13-00001	US AGENCY FOR INTERNATIONAL DEVELOPMENT	55,968	-
USAID	Direct	98.001	AID-OAA-L-13-00001	US AGENCY FOR INTERNATIONAL DEVELOPMENT	32,235	-
USAID	Direct	98.001	AID-OAA-L-13-00001	US AGENCY FOR INTERNATIONAL DEVELOPMENT	12,890	-
USAID USAID	Direct Direct	98.001 98.001	AID-OAA-L-13-00001 AID-OAA-LA-14-00005	US AGENCY FOR INTERNATIONAL DEVELOPMENT US AGENCY FOR INTERNATIONAL DEVELOPMENT	1,185 831,485	614,904
USAID	Direct	98.001	AID-OAA-LA-14-00005 AID-OAA-LA-15-00006	US AGENCY FOR INTERNATIONAL DEVELOPMENT  US AGENCY FOR INTERNATIONAL DEVELOPMENT	61,692	35,721
USAID	Direct	98.001	AID-OAA-LA-15-00006 AID-OAA-LA-17-00002	US AGENCY FOR INTERNATIONAL DEVELOPMENT  US AGENCY FOR INTERNATIONAL DEVELOPMENT	33,898	35,/21
USAID	Direct	98.001	ILLSR	US AGENCY FOR INTERNATIONAL DEVELOPMENT	5,970	-
	Direct Tota			SS. IGENER FOR INTERNATIONAL DEVELOT MENT	16,623,980	8,261,650
LICAID			140524	INTLINICT FOR TRODICAL ACCIONATION		0,202,030
USAID	Pass-through		148524	INTL INST FOR TROPICAL AGRICULTURE	73,405	-
USAID		98	2017X240.MSU	INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE	200,252	-
LICAID	Pass-through	98	2017X240.MSU 078517-15682	INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE ILLINOIS URBANA CHAMPAIGN, UNIVERSITY OF	83,581 134,655	34,335
USAID	Pacc-through			CELITORS ORDANA CHANNI AIGN, UNIVERSITY OF	134,033	34,333
USAID	Pass-through Pass-through	98.001 98.001		THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS	7 909	7 067
USAID USAID	Pass-through	98.001	09-002945-103	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS PURDUE UNIVERSITY	7,998 (15)	7,967
USAID	Pass-through Pass-through			THE REGENTS OF THE UNIVERSITY OF CALIFORNIA - DAVIS PURDUE UNIVERSITY INTL INST FOR TROPICAL AGRICULTURE	7,998 (15) 744,498	7,967 - 110,645
USAID USAID USAID	Pass-through	98.001 98.001	09-002945-103 8000075688	PURDUE UNIVERSITY	(15)	-

					Year Ended	June 30, 2019
EndontAnnon	Direct/	CFDA	A	Grantor Name	Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Research and Development Cluster (continued):						
USAID	Pass-through	98.001	MA1279	UNIVERSITY OF HAWAII	\$ 35,834	\$ -
USAID	Pass-through	98.001	MTO 069018	INTL INST FOR TROPICAL AGRICULTURE	1,908	-
USAID	Pass-through	98.001	PGA-2000003665	NATL ACADEMY OF SCIENCES	13,849	-
USAID USAID	Pass-through Pass-through	98.001 98.001	RD011G-J S16058	OREGON STATE UNIVERSITY KANSAS STATE UNIVERSITY	16,327 172,163	16,992
USAID	Pass-through	98.001	S16058	KANSAS STATE UNIVERSITY	115,874	10,552
USAID		98.001	S17090	KANSAS STATE UNIVERSITY	46,565	-
USAID		98.001	S17182	KANSAS STATE UNIVERSITY	167,472	23,233
	Pass-throu				1,839,572	193,172
	USAID Tot		DEVELOPMENT OF THE P		18,463,552	8,454,822
	TOTAL KES	EARCH AND	DEVELOPMENT CLUSTER		333,289,258	47,903,651
Student Financial Assistance Cluster:						
Education	Direct	84.007	P007A102046 SEOG 18-19	US DEPT OF EDUCATION	1,441,746	-
Education	Direct	84.033	P033A102045 FWS 18-19	US DEPT OF EDUCATION	2,293,476	-
Education	Direct	84.033	P033A102045 FWS AR 18-19	US DEPT OF EDUCATION	52,876	-
Education	Direct	84.033	P033A102045 FWS JL 18-19	US DEPT OF EDUCATION	47,509	-
Education	Direct	84.033	P033A102045 FWS 17-18	US DEPT OF EDUCATION	25,897	-
Education Education	Direct Direct	84.033 84.033	P033A102045 FWS AC 18-19 P033A102045 FWS JL 17-18	US DEPT OF EDUCATION US DEPT OF EDUCATION	10,348 10,166	-
Education	Direct	84.038	VARIOUS PERKINS	US DEPT OF EDUCATION	29,940,192	
Education	Direct	84.063	P063P110233 PELL 18-19	US DEPT OF EDUCATION	44,870,952	-
Education	Direct	84.063	P063P110233 PELL ADMIN ALLOWANCE		45,235	-
Education	Direct	84.063	P063P110233 PELL 17-18	US DEPT OF EDUCATION	(16,429)	-
Education	Direct	84.268	FED DIRECT LOAN PROG-98 AID YR	US DEPT OF EDUCATION	347,640,816	-
Education	Direct	84.379	P379T110233 TEACH 18-19	US DEPT OF EDUCATION	111,907	
04	Education	Total			426,474,691	
Student Financial Assistance Cluster (continued):						
			VARIOUS - NURSE FACULTY PROG			
Health and Human Services	Direct	93.264	STUDENT LOANS	HEALTH & HUMAN SERV US DEPT OF	348,229	-
			VARIOUS - HEALTH PROFESSIONAL			
Health and Human Services	Direct	93.342	STUDENT LOANS	HEALTH & HUMAN SERV US DEPT OF	11,600,751	-
			VARIOUS - NURSING PROFESSION			
Health and Human Services		93.364 Human Serv	STUDENT LOANS	HEALTH & HUMAN SERV US DEPT OF	3,612 11,952,592	
			ICIAL ASSISTANCE CLUSTER		438,427,283	<del></del>
enno el	TOTALOTO		CIAL ASSISTANCE CESSTER		450,427,205	
CDBG Cluster: Housing and Urban Development	Pass-through	14 210	EL B-18-MC-26-0024	CITY OF EAST LANSING	6,822	
Housing and Orban Development		G CLUSTER	EL B-18-WC-20-0024	CIT OF EAST DANSING	6,822	
CCDF Cluster:	TOTAL COL	O CLOSTER				
Health and Human Services	Pass-through	93.596	BCHS/MSU FY18	MICH DEPT OF LICENSING & REGULATORY AFFAIRS	62,039	59,374
Health and Human Services	Pass-through		BCHS/MSU FY19	MICH DEPT OF LICENSING & REGULATORY AFFAIRS	189,903	56,262
	TOTAL CCI	OF CLUSTER			251,942	115,636
Economic Development Cluster:	D	44.200	FD 4 05 04 05034	CONOLUG DEVELOPMENT ADMINISTRATION	4 522 440	
Commerce Commerce	Direct Direct	11.300 11.300	EDA 06-01-05931 EDA 06-01-05931	ECONOMIC DEVELOPMENT ADMINISTRATION ECONOMIC DEVELOPMENT ADMINISTRATION	1,522,449 (1,097,420)	-
Commerce			ELOPMENT CLUSTER	ECONOMIC DEVELOPMENT ADMINISTRATION	425,029	
Fish and Wildlife Cluster:						
Interior	Pass-through	15.611	MSU-001	NEVADA DEPARTMENT OF WILDLIFE	259,624	21,769
	TOTAL FISI	AND WILDI	IFE CLUSTER		259,624	21,769
Highway Planning and Construction Cluster:						
Transportation		20.205	12-S171220	TEXAS TRANSPORTATION INSTITUTE	38,588	-
Transportation	Pass-through	20.205	MSUAP01	MICHIGAN FITNESS FOUNDATION	82,914	-
Transportation Transportation		20.205	MSUAP01 MSUAP01-CEE	MICHIGAN FITNESS FOUNDATION MICHIGAN FITNESS FOUNDATION	58,373 59,808	-
Transportation	Pass-through Pass-through	20.205	MSUAPO1-SPDC	MICHIGAN FITNESS FOUNDATION MICHIGAN FITNESS FOUNDATION	35,729	-
Transportation			NING AND CONSTRUCTION CLUSTER	MICHIGANTINESSTOONDATION	275,412	-
Highway Safety Cluster:						-
Transportation	Pass-through		19-03	MI OFFICE OF HIGHWAY SAFETY PLANNING	54,282	
	TOTAL HIG	HWAY SAFE	TY CLUSTER		54,282	
Medicaid Cluster:						
Health and Human Services	Pass-through		E20180226-00-W	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	25,877	-
Health and Human Services	Pass-through		E20180325-00-AJ	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	39,138	-
Health and Human Services Health and Human Services		93.778 93.778	E20180326-00-AP E20180328-00-AN	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	20,043 43,330	-
Health and Human Services		93.778	E20180329-00-P	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	47,869	16,170
Health and Human Services		93.778	E20181145-00-AF	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	6,497	
Health and Human Services		93.778	E20182787-00-L	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	3,028	-
Health and Human Services		93.778	E20182788-00-Z	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	123,618	-
Health and Human Services	Pass-through	93.778	E20182877-00	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	130,639	-
Health and Human Services		93.778	E20191317-00-AF	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	139,434	-
Health and Human Services		93.778	E20191319-00-AN	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	77,756	-
Health and Human Services		93.778	E20192890-00-AQ	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	131,165	-
Health and Human Services	Pass-through		E20192891-00-AR	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	335,695	-
Health and Human Services Health and Human Services	Pass-through Pass-through		E20193095-00-AS E20193273-00 BD	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	18,658 248,487	-
		DICAID CLUS			1,391,234	16,170
SNAP Cluster:						
Agriculture	Pass-through	10.561	ADMIN-16-99010	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	22	-
Agriculture	Pass-through	10.561	E20182777-00-AR	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	1,758,695	-
Agriculture	Pass-through		E20192773-00-AJ	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	5,260,920	-
Agriculture	Pass-through	10.561 AP CLUSTER	E20192892-00-AG	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	71,738 <b>7,091,375</b>	22,094 22,094
FRIO Cluster:	TOTAL SNA	CLUSIEK			7,031,3/5	22,094
Education	Direct	84.042	P042A150804	US DEPT OF EDUCATION	824,258	_
Education	Direct	84.044	P044A160125	US DEPT OF EDUCATION US DEPT OF EDUCATION	322,176	
	TOTAL TRI				1,146,434	
Other Federal Awards:						
Agriculture	Direct	10	14-PA-11090400-024	USDA - FOREST SERVICE	25,135	-
Agriculture	Direct	10	16-CS-11090400-038	USDA - FOREST SERVICE	1,947	-
Agriculture	Direct	10	17-CS-11090400-027	USDA - FOREST SERVICE	(174)	-
Agriculture	Direct Direct	10 10	18-PA-11090400-040 18-TMMSD-MI-0001	USDA - FOREST SERVICE USDA - AGRICULTURE U.S. DEPT.	30,402 35,524	-
Agriculture		10			35,524 28,090	-
Agriculture	Direct	10	AG-5405-P-17-0011	USDA - AGRI RESEARCH SERV US DEPT	28,090	-

					Year Ended	June 30, 2019	
	Direct/	CFDA			Total	Subaward	
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments	
Other Federal Awards (continued):							
Agriculture	Direct	10.001	45-5484-8-0019 PHONE	USDA - FOREST SERVICE	\$ 4,381	\$ -	
Agriculture	Direct	10.001	GENERAL FISCAL AGENT	USDA - FOREST SERVICE	926	-	
Agriculture Agriculture	Direct Direct	10.164 10.172	17-005 AM180100XXXXG125	USDA - FOREIGN AG SERVICE USDA - AGRI MARKETING SERV US DEPT AGR	29,836 26,110	5,996	
Agriculture	Direct	10.174	AM180100XXXXG153	USDA - AGRICULTURE U.S. DEPT.	11,539	-	
Agriculture	Direct	10.210	2014-38420-21803	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	61,110	-	
Agriculture	Direct	10.210	2015-38420-23697	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	87,360	-	
Agriculture	Direct Direct	10.210 10.210	2017-38420-26759 2017-38420-26823	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	53,568 36,750	-	
Agriculture Agriculture	Direct	10.217	2017-36420-20823	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	47,651	15,296	
Agriculture	Direct	10.217	2019-70003-29088	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	6,698		
Agriculture	Direct	10.220	2018-38413-28142	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	28,667	-	
Agriculture	Direct	10.220	2018-38413-28143	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	6,414	-	
Agriculture Agriculture	Direct Direct	10.226 10.304	2016-38414-25820 2017-37620-27296	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	43,384 334,429	11,117	
Agriculture	Direct	10.310	2018-67011-27991	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	39,832	-	
Agriculture	Direct	10.310	2018-67011-28006	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	60,230		
Agriculture	Direct	10.310	2018-67012-27996	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	71,173	-	
Agriculture	Direct	10.310	2019-67012-29595	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	390	-	
Agriculture Agriculture	Direct Direct	10.310 10.311	2019-67012-29719 2017-70017-26860	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	8,993 177,681	37,587	
Agriculture	Direct	10.311	2017-70017-26860	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	1,130	-	
Agriculture	Direct	10.329	2014-70006-22498	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	(8)	-	
Agriculture	Direct	10.329	2017-70006-27175	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	207,262	-	
Agriculture	Direct	10.329	2018-70006-28883	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	280,784	74,007	
Agriculture Agriculture	Direct Direct	10.329 10.329	2018-70006-28883 2018-70006-28883	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	6,424 316	-	
Agriculture	Direct	10.325	2018-70024-28817	USDA - AGRICULTURE U.S. DEPT.	23,599	4,676	
Agriculture	Direct	10.336	2018-70024-28817	USDA - AGRICULTURE U.S. DEPT.	3,900	-	
Agriculture	Direct	10.500	2014-41590-22327	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	102,299	62,540	
Agriculture	Direct	10.500 10.500	2014-48778-22647 2014-48778-22647	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	442 100	-	
Agriculture Agriculture	Direct Direct	10.500	2014-46778-22647 2018-39592-28959	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	71,237	-	
Agriculture	Direct	10.500	2018-41590-28722	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	99,347	52,996	
Agriculture	Direct	10.511	41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	2,539,668	-	
Agriculture	Direct	10.511	41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	2,118,067	-	
Agriculture	Direct Direct	10.511 10.511	41100-02200 SMITH-LEVER 41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	2,092,569 1,146,865	-	
Agriculture Agriculture	Direct	10.511	41100-02200 SMITH-LEVER 41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	957,698	-	
Agriculture	Direct	10.511	41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	795,214	-	
Agriculture	Direct	10.511	41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	199,684	-	
Agriculture	Direct	10.511	41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	165,545	-	
Agriculture Agriculture	Direct Direct	10.511 10.511	41100-02200 SMITH-LEVER 41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	96,380 32,746		
Agriculture	Direct	10.511	41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	31,161		
Agriculture	Direct	10.511	41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	17,558	-	
Agriculture	Direct	10.511	41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	13,410	-	
Agriculture	Direct	10.511	41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	12,998	-	
Agriculture Agriculture	Direct Direct	10.511 10.511	41100-02200 SMITH-LEVER 41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	11,618 5,000	-	
Agriculture	Direct	10.511	41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	812		
Agriculture	Direct	10.511	41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	250	-	
Agriculture	Direct	10.511	41100-02200 SMITH-LEVER	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	100		
Agriculture	Direct Direct	10.512 10.512	2015-41595-24254 2017-41580-26940	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	1,674,392 88,700	1,591,297	
Agriculture Agriculture	Direct	10.512	EFNEP-EXT HN	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	1,521,507	-	
Agriculture	Direct	10.515	2017-46401-27162	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	57,163	-	
Agriculture	Direct	10.515	2017-46401-27162	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	12,584	-	
Agriculture	Direct	10.515	Renew Resources Project DIR	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	132,103	-	
Agriculture	Direct	10.517	2013-41580-20792 2013-41520-20939	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	1,011	-	
Agriculture Agriculture	Direct Direct	10.521 10.521	2016-41520-25564	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	110,737 116,759	-	
Agriculture	Direct	10.614	FX17SE-10614R003	USDA - FOREIGN AG SERVICE	32,427	-	
Agriculture	Direct	10.614	FX17SE-10614R004	USDA - FOREIGN AG SERVICE	2,228	-	
Agriculture	Direct	10.614	FX18SE-10614R001	USDA - FOREIGN AG SERVICE	31,085	-	
Agriculture Agriculture	Direct Direct	10.771 10.777	386005984 BF-CR-16-020	USDA - AGRICULTURE U.S. DEPT. USDA - FOREIGN AG SERVICE	31,691 9,770	-	
Agriculture	Direct	10.777	BF-CR-16-020 BF-CR-16-024	USDA - FOREIGN AG SERVICE	10,343	-	
Agriculture	Direct	10.777	BF-CR-16-050	USDA - FOREIGN AG SERVICE	2,630	-	
Agriculture	Direct	10.777	FX17BF-10777R022	USDA - FOREIGN AG SERVICE	19,062	-	
Agriculture	Direct	10.777	FX17BF-10777R035	USDA - FOREIGN AG SERVICE	31,476	-	
Agriculture Agriculture	Direct Direct	10.777 10.777	FX17BF-10777R036 FX18BF-10777R010	USDA - FOREIGN AG SERVICE USDA - FOREIGN AG SERVICE	13 23,705		
Agriculture	Direct	10.777	FX18BF-10777R011	USDA - FOREIGN AG SERVICE	37,510		
Agriculture	Direct	10.777	FX18BF-10777R028	USDA - FOREIGN AG SERVICE	10,009	-	
Agriculture	Direct	10.777	FX18BF-10777R033	USDA - FOREIGN AG SERVICE	25,817	-	
Agriculture Agriculture	Direct Direct	10.777 10.868	FX19BF-10777R002 26-033-030879893	USDA - FOREIGN AG SERVICE USDA - AGRICULTURE U.S. DEPT.	8,720 17,749	-	
Agriculture	Direct	10.902	NR193A750023G001	USDA - NATURAL RESOURCES CONSERVATION SERVICE	1,980	_	
Agriculture	Direct	10.902	NR1974820005C001	USDA - NATURAL RESOURCES CONSERVATION SERVICE	2,880	-	
Agriculture	Direct	10.902	NR1974820005C002	USDA - NATURAL RESOURCES CONSERVATION SERVICE	3,168	-	
Agriculture	Direct	10.903	68-3A75-17-442	USDA - NATURAL RESOURCES CONSERVATION SERVICE	1,936	-	
Agriculture Agriculture	Direct Direct	10.912 10.932	69-5D21-18-001 NR185D21XXXXC002	USDA - NATURAL RESOURCES CONSERVATION SERVICE USDA - NATURAL RESOURCES CONSERVATION SERVICE	44,001 3,956	-	
Agriculture	Direct	10.952	EMP Program Agreement #2015-16	USDA - FOREIGN AG SERVICE	107,577		
Agriculture	Direct	10.960	FX18TA-10960R018	USDA - FOREIGN AG SERVICE	46,971	-	
Agriculture	Direct	10.960	TA-CR-16-043	USDA - FOREIGN AG SERVICE	97,011	-	
Agriculture	Direct Direct Total	10.962	FX18CO-10962R017	USDA - FOREIGN AG SERVICE	27,341	1 000 013	
					16,638,233	1,855,512	
Agriculture	Pass-through		018000.340888.01 412-30-36A	MISSISSIPPI STATE UNIVERSITY IOWA STATE UNIVERSITY	25,934	-	
Agriculture Agriculture	Pass-through Pass-through	10.174 10.200	412-30-36A 416-41-15H	IOWA STATE UNIVERSITY IOWA STATE UNIVERSITY	11,286 (42)	-	
Agriculture	Pass-through		F9002921802002	PURDUE UNIVERSITY	3,741	-	
Agriculture		10.227	2017-03930 Tribal College	BAY MILLS COMMUNITY COLLEGE	1,909	-	
Agriculture		10.310	2015-0097-24	NORTH CAROLINA STATE UNIVERSITY	25,076	-	
Agriculture	Pass-through		075978-15421 076332-15443	UNIVERSITY OF ILLINOIS UNIVERSITY OF ILLINOIS	69,228	-	
Agriculture	Pass-through	10.329	0,0332-13443	ONIVERSITY OF ILLINOIS	16,470	-	

					rear Ended	Julie 30, 2019
	Direct/	CFDA			Total	Subaward
Federal Agency	Pass-through	(Note 5)	Award Number	Grantor Name	Expenditures	Payments
Other Federal Awards (continued):						
Agriculture	Pass-through 1	10.329	076332-16597	UNIVERSITY OF ILLINOIS	\$ 16,374	\$ -
Agriculture	Pass-through 1	10.329	076332-16831	NORTH CENTRAL INTEGRATED PEST MANAGEMENT	3,003	1,940
Agriculture	Pass-through 1	10.329	076332-16832	NORTH CENTRAL INTEGRATED PEST MANAGEMENT	12,717	-
Agriculture	Pass-through 1	10.329	2014-07306-16	UNIVERSITY OF ILLINOIS	7,845	-
Agriculture	Pass-through 1	10.500	2023-207-2012187	CLEMSON UNIVERSITY	13,232	-
Agriculture		10.500	25-6324-0150-310	NEBRASKA UNIVERSITY OF	16,227	-
Agriculture		10.500	8000083841	PURDUE UNIVERSITY	7,087	-
Agriculture		10.500	BMCC 2018-47002-28637	BAY MILLS COMMUNITY COLLEGE	34,646	· -
Agriculture		10.500	Empower Educators	NORTH CENTRAL REGION WATER NETWORK	22,180	12,402
Agriculture		10.500	S18072	KANSAS STATE UNIVERSITY	15,489	-
Agriculture		10.500	\$18072	KANSAS STATE UNIVERSITY	3,677	-
Agriculture		10.500	\$19064	KANSAS STATE UNIVERSITY	6,021	-
Agriculture		10.557	E20180227-00-M	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	9,600	-
Agriculture		10.557	E20192182-001-K	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	9,840	-
Agriculture		10.574 10.575	313B7700003 PO180000008111 Farm to School	MICHIGAN DEPARTMENT OF EDUCATION MICHIGAN DEPARTMENT OF EDUCATION	58,022	-
Agriculture	Pass-through 1			LAND O LAKES INC	(57)	9,740
Agriculture	Pass-through 1		17-MSIKA-A-A-657 8000064146-AG	PURDUE UNIVERSITY	241,851 24,954	5,740
Agriculture	Pass-through		8000004140-AG	FORDOE ONIVERSITY	656,310	24,082
	Agriculture T				17,294,543	1,879,594
	_					1,073,334
Commerce		11.303	ED17CHI3030031	ECONOMIC DEVELOPMENT ADMINISTRATION	37,346	-
Commerce		11.417	NA14OAR4170285	NATL OCEANIC & ATMOSPHERIC ADMIN	29,760	-
Commerce		11.429	NA18NOS4290003	NATL OCEANIC & ATMOSPHERIC ADMIN	42,086	-
Commerce		11.429	NA18NOS4290003	NATL OCEANIC & ATMOSPHERIC ADMIN	1,499	-
Commerce		11.620	70NANB15H339	NATL INST OF STANDARDS & TECHNOLOGY	(96)	
	Direct Total				110,595	
Commerce	Pass-through 1	11	82017-0131	SYNOPTIC DATA CORP	35,736	-
Commerce	Pass-through 1		D-S2017-0131	SYNOPTIC DATA CORP	62,559	-
Commerce		11.008	SUBK00009321	UNIVERSITY OF MICHIGAN	3,393	-
Commerce		11.008	SUBK00009321	UNIVERSITY OF MICHIGAN	2,145	-
Commerce		11.407	102699	MINNESOTA DEPT OF NATURAL RESOURCES	15,209	-
Commerce	Pass-through 1		3002999560	UNIVERSITY OF MICHIGAN	84,396	-
Commerce	Pass-through 1		3003003179	UNIVERSITY OF MICHIGAN	475,241	-
Commerce		11.417	3003003179	UNIVERSITY OF MICHIGAN	3,000	-
Commerce		11.417	3003003179	UNIVERSITY OF MICHIGAN	563	-
Commerce		11.417	3003675941	UNIVERSITY OF MICHIGAN	578	-
Commerce		11.417	3003675941	UNIVERSITY OF MICHIGAN	(44)	-
Commerce Commerce		11.417	3004235158	UNIVERSITY OF MICHIGAN UNIVERSITY OF MICHIGAN	1,130	
		l1.417 l1.432	3004629463 089354-16821	UNIVERSITY OF MICHIGAN UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	28,588 538	
Commerce Commerce		11.432	089354-16821	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	3,750	
Commerce	Pass-through 1		3004875740	UNIVERSITY OF MICHIGAN	121,291	
Commerce	Pass-through 1		SUBK00011137	UNIVERSITY OF MICHIGAN	3,310	
Commerce	Pass-through		305100011137	ONVERSITY OF INTERNOVAL	841,383	
	Commerce T				951,978	-
					-	
Corporation for National and Community Service	Pass-through 9		E20183158-00	MI COMMUNITY SERVICE COMMISSION	232,452	-
Corporation for National and Community Service	Pass-through 9		MACF18-33000	MI COMMUNITY SERVICE COMMISSION	31,653	
	Corporation	for Nationa	l and Community Service Total		264,105	
Defense		12.420	W81XWH1810233	ARMY US DEPT OF	153,049	-
Defense	Direct 1	12.800	FA9550-18-1-0407	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	32,222	
	Direct Total				185,271	
Defense	Pass-through 1	12	20PO008276	LOUIS BERGER GROUP, INC.	129,646	-
Defense	Pass-through 1		3332-ARM-2S/MSU	LUNA INNOVATIONS	17,833	
Defense	Pass-through 1		CBD181-004-1	ZYMERON CORP	714	-
Defense	Pass-through 1	12	PO 031054	LUNA INNOVATIONS	167,540	-
Defense	Pass-through 1	12.550	0054-MSU-22-PI-280-PO2	INST OF INTERNATL EDUCATION	47,759	-
Defense	Pass-through 1	12.550	0054-MSU-22-PI-280-PO2	INST OF INTERNATL EDUCATION	6,830	-
	Pass-through	h Total			370,322	
	Defense Tota	al			555,593	
Education	Direct 8	34.015	P015A140097 - 16	US DEPT OF EDUCATION	28,828	-
Education		34.015	P015A140098 - 16	US DEPT OF EDUCATION	32,395	
Education		34.015	P015B140097 - 17	US DEPT OF EDUCATION	6,000	
Education		34.015	P015B140099	US DEPT OF EDUCATION	(2,623)	
Education		34.022	P022A160061	US DEPT OF EDUCATION	9,545	-
Education	Direct 8	34.022	P022A170045	US DEPT OF EDUCATION	20,739	-
Education		34.022	P022A180056	US DEPT OF EDUCATION	24,273	-
Education	Direct 8	34.022	P022A180056	US DEPT OF EDUCATION	11,055	-
Education	Direct 8	34.022	P022A180056	US DEPT OF EDUCATION	1,941	-
Education		34.022	P022A180056	US DEPT OF EDUCATION	1,172	-
Education		34.129	H129B140012	US DEPT OF EDUCATION	181,951	-
Education		34.149	S149A150003	US DEPT OF EDUCATION	435,032	-
Education		34.200	P200A140215	US DEPT OF EDUCATION	(27,938)	-
Education		34.220	P220A140001	US DEPT OF EDUCATION	(18,828)	-
Education		34.229	P229A140006	US DEPT OF EDUCATION	21,838	-
Education		34.032	FFELP Loans Receivable	US DEPT OF EDUCATION	646,393	-
Education		34.334	GEAR UP	US DEPT OF EDUCATION	69,725	-
Education		34.335	P335A180261	US DEPT OF EDUCATION	281,565	
	Direct Total				1,723,063	
Education	Pass-through 8		4400007264	LOS ANGELES UNIFIED SCHOOL DISTRICT	5,015	-
Education		34.010	App 151026	GOGEBIC ONTONAGON INTERMEDIATE SCHOOL DISTRICT	74	-
Education		34.011	181850-1718	MICHIGAN DEPARTMENT OF EDUCATION	97,315	-
Education		34.011	191850-1819	MICHIGAN DEPARTMENT OF EDUCATION	73,953	-
Education		34.048	183280-18183	MICHIGAN DEPARTMENT OF EDUCATION	(2)	-
Education		34.048	193280-19183	MICHIGAN DEPARTMENT OF EDUCATION	69,655	-
Education		34.048	193430-19133	MICHIGAN DEPARTMENT OF EDUCATION	59,935	-
Education		34.334	18-00-06	MICHIGAN ECONOMIC DEVELOPMENT CORP	254	-
Education	Pass-through 8		GEAR UP 16-00-06	MICHIGAN ECONOMIC DEVELOPMENT CORP	35,149	-
Education	Pass-through 8		170291-2018	MICHIGAN DEPARTMENT OF EDUCATION	224,055	104,310
Education	Pass-through 8		94-MI04-SEED2017-CRWPAI	NATL WRITING PROJECT CORP.	5,236	-
Education	Pass-through 8		PR-94-MI04-SEED2018-C3WPPD	NATL WRITING PROJECT CORP.	11,572	104 212
	Pass-through Education To				582,211 2,305,274	104,310
						104,510
Energy	Pass-through 8	31	19-D0382	JEFFERSON SCIENCE ASSOCIATES LLC	17,381	-

Transport   Company   Co						rear Ended Ju	ine 30, 2019
Part	Federal Agency			Award Number	Grantor Name		
Page		r ass-tillough	(Note 3)	Award Number	Grantoi Name	Experiultures	rayillelits
Processored Transport Processor Pr				MEO-16-022	MICH DEPT OF LICENSING & REGULATORY AFFAIRS		\$ -
Commonstration Comm		Energy To	tal			131,364	
Professional Production Agency   Professional Professio							-
Description of Part   Part Indiang   1,000							-
Personal Counted and an administration   Personal Processing   Personal Counted and an administration   Personal Counted and administrati							-
Part	Environmental Protection Agency				MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT		-
Probate   Country of the data and humanistics   Control   4,524   1,2000,202   1,							
Product Council on the App and extramental   Product Council on	Federal Communications Commission				FEDERAL COMMUNICATION COMMISSION		
Author Count of my Arm of my memorians   County   Count							
Peter   Consort of the Art and Humanists   1.000   1							-
Pedal Count of the Ast and Humster   Pedal Cou					NATL ENDOWMENT FOR THE ARTS		-
Package   Council of the API and sharanships   Package   Council of th							-
Federal Causard on the dark of the continuations   Federal Causard on the model the continuation   Federal Causard on the first on the continuation   Federal Causard on the continuation   Federal Causard on t	rederal Council on the Arts and Humanities			WA-10-17-0377-17	INSTITUTE OF MUSEUM AND LIBRARY SERVICES		
Federal Counced on the Path of Hammer Hermonites   Path Hermonit	Federal Council on the Arts and Humanities	Pass-through	45.025	00022223	ARTS MIDWEST	3,800	-
Federal Countil on the Anni Sammer   Pen-frengh   6020   186-7189   120-10   186-7189   120-10   186-7189   120-10   186-7189   120-10   186-7189   120-10   186-7189   120-10   186-7189							-
Person Counced on the five part Informative   Person-Prop   6.02   1994/207   MORISON COUNCE OF ATT \$ CLUTTURA APAINS   3.71							-
Federal Counced on the first and Humanities   Pass Princips   6222   19948800   MINISTRA COUNTY OF ANY 2014   CO							-
Federal Causard on the Arts and Humanible   Pass Strongs   \$6.005   501-568880C   100-005   10							-
Peach Formary   Peach Horse							-
Page	Federal Council on the Arts and Humanities	Pass-through	45.025	19PS4881AC	MICHIGAN COUNCIL OF ARTS & CULTURAL AFFAIRS	15,000	-
Registra of Human Services   Direct   1913   1115	Federal Council on the Arts and Humanities			HUD075-18	MICHIGAN HUMANITIES COUNCIL		
Health and Flamman Services   Direct   93.103   MEROSOLITA   FOOD & GRUGA GARMINESTRATION #19   7.0569   1.000   1.0				Arts and Humanities Total			
Meath and Human Services	Health and Human Services	Direct	93.103	1U18FD006593-01	FOOD & DRUG ADMINISTRATION -PHS	28,941	-
Mean Franches							-
Reach and Human Services   Direct   33.27   JANUER HOUSE 20.00   CENTRES FOR DIGASE CONTROL AND FREVENTION   2.99.264   1.389.310   1.38							-
Realth and Human Services   Direct   33-76.   SPERSODIA 60   ADMINISTRATION FOR COMMUNITY LIVING   4,500   Company   4							1,389,510
Heath and Human Services   Direct   39.76   SOPP-80014-0   ADMINISTRATION FOR COMMUNEY LYVING   4,55,000   1,57,700   1,50,510   1							-
Meanth and Human Services							-
Reach and Humann Services					HEALTH RESOURCES & SERVICES ADMIN -PHS		-
Realth and Human Services		Direct Tot	al				1,389,510
Realth and Human Services							-
Realth and Human Services   Past-through 93   E20193377-00   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   9.3   HORDIZOS   1.1							-
Health and Human Services							-
Health and Human Services							-
Health and Human Services							-
Health and Human Services							-
Health and Human Services							-
Health and Human Services							-
Health and Human Services   Pass-through 93.070   E20182725-00-0   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   40,117   - Health and Human Services   Pass-through 93.080   12-18-442   HEMDPHILLA FOUNDATION OF MICHIGAN   15,257   - The Health and Human Services   Pass-through 93.080   18-19-442   HEMDPHILLA FOUNDATION OF MICHIGAN   50,110   - The Health and Human Services   Pass-through 93.103   180000000241   MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   (35,454)   - The Health and Human Services   Pass-through 93.103   1800000000241   MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   32,566   - The Health and Human Services   Pass-through 93.103   MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,111   - The Health and Human Services   Pass-through 93.103   MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,111   - The Health and Human Services   Pass-through 93.103   MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,120   - The Health and Human Services   Pass-through 93.103   MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - The HEMD SERVICES   Pass-through 93.104   MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - The MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - The MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - The MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - The MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - THE MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - THE MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - THE MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - THE MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - THE MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - THE MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - THE MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - THE MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - THE MICHIGAN DEPT OF ADRICULTURE & RURAL DEVELOPMENT   42,230   - THE							-
Health and Human Services							-
Health and Human Services   Pass-through   93,080   18-19-442   HEMOPHILLA FOUNDATION OF MICHIGAN   50,110   - Health and Human Services   Pass-through   93,103   18000000131   MIGHIGAN DEFT OF AGRICULTURE & RURAL DEVELOPMENT   12,566   - Health and Human Services   Pass-through   93,103   18000000138   MIGHIGAN DEFT OF AGRICULTURE & RURAL DEVELOPMENT   39,433   - Health and Human Services   Pass-through   93,103   30,103   MIGHIGAN DEFT OF AGRICULTURE & RURAL DEVELOPMENT   39,433   - Health and Human Services   Pass-through   93,103   MIGHIGAN DEFT OF AGRICULTURE & RURAL DEVELOPMENT   4,211   - Health and Human Services   Pass-through   93,100   MIGHIGAN DEFT OF AGRICULTURE & RURAL DEVELOPMENT   4,211   - Health and Human Services   Pass-through   93,110   MIGHIGAN DUSPERO SOSQU-03   MIGHIGAN DEFT OF AGRICULTURE & RURAL DEVELOPMENT   4,211   - HEMOPHILLA FOUNDATION OF MIGHIGAN   3,350   - HEMOPHILLA FOUNDATION OF MIGHIGAN   3,350   - HEMOPHILLA FOUNDATION OF MIGHIGAN   6,0,74   - HEMOPHILLA FOUNDATION OF MIGHIGAN   6,0,74   - HEMOPHILLA FOUNDATION OF MIGHIGAN   6,0,074   - HEMOPHILLA FOUNDATION OF MIGHIGAN   6,0,000   - HEMOPHILLA FOUNDATION OF MIGHIGAN   6,0,0	Health and Human Services	Pass-through	93.070	E20191307-00-D	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	40,117	-
Health and Human Services							-
Health and Human Services							-
Health and Human Services   Pass-through   93.103   731M7700000325   MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT   4,211   -1   Health and Human Services   Pass-through   93.103   442 19-20   HEMOPHILLA FOUNDATION OF MICHIGAN   6,0174   -1   Health and Human Services   Pass-through   93.110   MGNE 24,17-18   HEMOPHILLA FOUNDATION OF MICHIGAN   6,0174   -1   Health and Human Services   Pass-through   93.110   MGNE 24,17-18   HEMOPHILLA FOUNDATION OF MICHIGAN   1,584   -1   Health and Human Services   Pass-through   93.110   MGNE 24,17-18   HEMOPHILLA FOUNDATION OF MICHIGAN   1,584   -1   Health and Human Services   Pass-through   93.110   WSU/17-101   WAVNE STATE LINIVERSITY   5,005   -1   Health and Human Services   Pass-through   93.110   WSU/17-101   WAVNE STATE LINIVERSITY   5,005   -1   Health and Human Services   Pass-through   93.110   WSU/17-101   WAVNE STATE LINIVERSITY   5,005   -1   Health and Human Services   Pass-through   93.110   WSU/17-101   WAVNE STATE LINIVERSITY   5,005   -1   Health and Human Services   Pass-through   93.110   WSU/17-101   WAVNE STATE LINIVERSITY   5,005   -1   Health and Human Services   Pass-through   93.116   E20182/18-00-0-AB   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   5,852   -1   Health and Human Services   Pass-through   93.136   E20182/18-00-0-D   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   5,852   -1   Health and Human Services   Pass-through   93.243   E20193107-00-D   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,531   -1   Health and Human Services   Pass-through   93.243   E20193107-00-D   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,531   -1   Health and Human Services   Pass-through   93.243   E2018375-00-D   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,531   -1   Health and Human Services   Pass-through   93.243   E2018375-00-D   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,531   -1   Health and Human Services   Pass-through   93.248   E2018375-00-D   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,527   -1   Health							-
Health and Human Services   Pass-through   93.103   MOARD SUBPRO05902-03   MICHIGAN FOOD & FARMING SYSTEMS   24,290   -   Health and Human Services   Pass-through   93.110   H30MC2A047-07-00   HEMOPHILLA FOUNDATION OF MICHIGAN   60,174   -   Health and Human Services   Pass-through   93.110   SUBRO0010309   UNIVERSITY OF MICHIGAN   1,584   -   Health and Human Services   Pass-through   93.110   SUBRO0010309   UNIVERSITY OF MICHIGAN   1,584   -   Health and Human Services   Pass-through   93.110   SUBRO0010309   UNIVERSITY OF MICHIGAN   1,584   -   Health and Human Services   Pass-through   93.110   SUBRO0010309   UNIVERSITY OF MICHIGAN   1,584   -   Health and Human Services   Pass-through   93.110   SUBRO0010309   UNIVERSITY OF MICHIGAN   1,584   -   Health and Human Services   Pass-through   93.110   SUBRO0010309   UNIVERSITY OF MICHIGAN   1,584   -   Health and Human Services   Pass-through   93.110   SUBRO0010309   UNIVERSITY OF MICHIGAN   1,584   -   Health and Human Services   Pass-through   93.110   SUBRO0010309   UNIVERSITY OF MICHIGAN   1,584   -   Health and Human Services   Pass-through   93.10   SUBRO0010309   UNIVERSITY OF MICHIGAN   1,584   -   Health and Human Services   Pass-through   93.10   SUBRO0010309   UNIVERSITY OF MICHIGAN   1,584   -   Health and Human Services   Pass-through   93.16   E20182126-00-0 MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   5,852   -   Health and Human Services   Pass-through   93.243   182734-AWARE18   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,538   -   Health and Human Services   Pass-through   93.243   182734-AWARE18   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,538   -   Health and Human Services   Pass-through   93.243   182734-AWARE18   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,538   -   Health and Human Services   Pass-through   93.243   182734-AWARE18   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,5276   -   Health and Human Services   Pass-through   93.240   SUBJECT   SUBJECT   SUBJECT   SUBJECT   SUBJECT   SUBJECT   SUBJ							-
Health and Human Services   Pass-through   93.110   H30MC24097-07-00   HEMOPHILA FOUNDATION OF MICHIGAN   C,000   -     Health and Human Services   Pass-through   93.110   SUBK00010309   UNIVERSITY OF MICHIGAN   1,584   -     Health and Human Services   Pass-through   93.110   W5U17101   W3VHSTATE UNIVERSITY   (3,088)   -     Health and Human Services   Pass-through   93.110   W5U17101   W3VHSTATE UNIVERSITY   54,025   -     Health and Human Services   Pass-through   93.110   Z-98893-115-504200   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   18,471   -     Health and Human Services   Pass-through   93.110   Z-98893-115-504200   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   18,471   -     Health and Human Services   Pass-through   93.136   E20182726-00-0   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   5,852   -     Health and Human Services   Pass-through   93.136   E20182726-00-0   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   8,558   -     Health and Human Services   Pass-through   93.243   1   MINSON MEDICAL CENTER   35,538   -     Health and Human Services   Pass-through   93.243   E20182726-00-0   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,511   -     Health and Human Services   Pass-through   93.243   E20182736-00-0   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,511   -     Health and Human Services   Pass-through   93.243   E20191307-00-0   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   10,665   -     Health and Human Services   Pass-through   93.243   E20191307-00-0   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   10,665   -     Health and Human Services   Pass-through   93.243   SM063521-01   CTY OF FUNT   S66,670   -     Health and Human Services   Pass-through   93.288   E20191307-00-0   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,5776   -     Health and Human Services   Pass-through   93.288   E20191307-00-0   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   3,543   -     Health and Human Services   Pass-through   93.288   E20191307-00-0   MICHIGAN DEPARTMENT OF		Pass-through		MDARD 5U18FD005902-03			-
Health and Human Services							-
Health and Human Services							-
Health and Human Services   Pass-through   93.110   2.38839-115-504200   MICH PBLIC HEALTH HISTITUTE   10,006   - 1,	ricular and riaman services	Pass-through	93.110	3051100010303		1,584	-
Health and Human Services							-
Health and Human Services							-
Health and Human Services							-
Health and Human Services							-
Health and Human Services		Pass-through	93.243		MUNSON MEDICAL CENTER	35,388	-
Health and Human Services							-
Health and Human Services							-
Health and Human Services							-
Health and Human Services							-
Health and Human Services							-
Health and Human Services		Pass-through					-
Health and Human Services							-
Health and Human Services Pass-through 93.424 E20193065-00-Q MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES 30,105 - Health and Human Services Pass-through 93.556 SFCIA-19001 MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES 36,105 - Health and Human Services Pass-through 93.556 SFCIA-1901 MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES 36,105 - Health and Human Services Pass-through 93.590 CTFDS-15-73001 MI DEPARTMENT OF HUMAN SERVICES 11,316 - Health and Human Services Pass-through 93.590 GLCYD CTFDS17-52001 GREAT LAKES CENTER FOR YOUTH DEVELOPMENT 7,718 - Health and Human Services Pass-through 93.590 Formising Futures GREAT LAKES CENTER FOR YOUTH DEVELOPMENT 2,677 - Health and Human Services Pass-through 93.590 SCH8365 CACS HEAD START 117,191 - Health and Human Services Pass-through 93.600 SCH8365 CACS HEAD START 117,191 1,7	Health and Human Services			E20180251-00-E	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES		-
Health and Human Services   Pass-through   93.426   E20191307-00-D   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   36,105   - Health and Human Services   Pass-through   93.556   SFSC14-19001   MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES   9,731   - 7,731   - 7,732   - 7,733   -							-
Health and Human Services							-
Health and Human Services         Pass -through         93.590         GLCYD CTFDS17-52001         GREAT LAKES CENTER FOR YOUTH DEVELOPMENT         7,78         -           Health and Human Services         Pass -through         93.590         Promising Futures         GREAT LAKES CENTER FOR YOUTH DEVELOPMENT         2,677         -           Health and Human Services         Pass -through         93.590         20193260-00-40         MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES         68,801         -           Health and Human Services         Pass -through         93.600         2017-2018         CACS HEAD START         117,191         -           Health and Human Services         Pass -through         93.604         2017-2018         CACS HEAD START         10,752         -           Health and Human Services         Pass -through         93.624         E2019307-00-D         MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES         126,388         -	Health and Human Services	Pass-through	93.556	SFSC14-19001	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	9,731	-
Health and Human Services Pass-through 93.59 Promising Futures GREAT LAKES CENTER FOR YOUTH DEVELOPMENT 2,677 - Health and Human Services Pass-through 93.590 E20193260-00-AU MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES 68,801 - Health and Human Services Pass-through 93.600 C5CH3-2018 CACS HEAD START 117,191 - Health and Human Services Pass-through 93.601 E2019307-00-D MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES 126,388 -							-
Health and Human Services         Pass -through         93.59         £20193260-00-AU         MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES         68,801         -           Health and Human Services         Pass -through         93.600         SCH8365         CACS HEAD START         117,191         -           Health and Human Services         Pass -through         93.600         2017-2018         CACS HEAD START         10,752         -           Health and Human Services         Pass -through         93.624         E20191307-00-D         MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES         126,388         -							-
Health and Human Services     Pass-through     93.600     2017-2018     CACS HEAD START     10,752     -       Health and Human Services     Pass-through     93.624     E20191307-00-D     MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES     126,388     -	Health and Human Services	Pass-through	93.599	E20193260-00-AU	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	68,801	-
Health and Human Services Pass-through 93.624 E20191307-00-D MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES 126,388 -							-
							-
	Health and Human Services						-

					Year Ended	June 30, 2019
Federal Agency	Direct/ Pass-through	CFDA (Note 5)	Award Number	Grantor Name	Total Expenditures	Subaward Payments
Other Federal Awards (continued):		(				
Health and Human Services	Dace through 0	3.628	E20180327-00-U	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	\$ 72,213	\$ -
Health and Human Services		3.630	E20191313-00-R	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	\$ 72,213 117,727	, -
Health and Human Services		3.644	E20182776-00-C	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	7,967	
Health and Human Services		3.644	E20191306-00-C	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	15,603	-
Health and Human Services		3.648	19-19-82905	RESEARCH FOUNDATION OF S.U.N.Y.	127,612	
Health and Human Services		3.648	F-18-19	RESEARCH FOUNDATION OF S.U.N.Y.	262,797	74,002
Health and Human Services		3.745	E20191307-00-D	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	242,245	7-1,002
Health and Human Services		3.745	E20191308-00 (E)	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	19,768	
Health and Human Services		3.757	E20182726-00-D	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	8,426	
Health and Human Services		3.758	E20182759-00-AD	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	2,595	
Health and Human Services		3.788	E20191318-00-AL	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	100,073	
Health and Human Services		3.788	E20193230-00-AW	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	71,452	
Health and Human Services		3.788	E20193231-00-AX	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	98,055	42,613
Health and Human Services		3.808	E20182726-00-D	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	40,260	
Health and Human Services		3.810	E20191307-00-D	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	10,029	
Health and Human Services		3.872	FY17.494.004	UNIVERSITY OF COLORADO - DENVER	15,817	
Health and Human Services		3.872	FY17.494.004	UNIVERSITY OF COLORADO - DENVER	5,325	_
Health and Human Services		3.898	E20191307-00-D	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	32,093	
Health and Human Services		3.926	HR-SBP14-05	SPECTRUM HEALTH SYSTEMS OF GRAND RAPIDS	58,981	
Health and Human Services		3.926	HR-SBP14-05	SPECTRUM HEALTH SYSTEMS OF GRAND RAPIDS	21,829	
Health and Human Services		3.926	Resolution 18-189	GENESEE COUNTY HEALTH DEPT	117,971	
Health and Human Services		3.945	E20182726-00-D	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	7,022	
Health and Human Services		3.958	E20191307-00-D	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	10,029	
Health and Human Services		3.959	E20182726-00-D	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	4,096	
Health and Human Services		3.994	E20182726-00-D	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	11,235	_
Health and Human Services		3.994	E20193221-00-AT	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES		
nealth and numan services	Pass-through 9 Pass-through		E20193221-00-A1	MICHIGAN DEPARTMENT OF REALTH & HUMAN SERVICES	34,884 4,128,493	116,615
	Health and H		inna Tatal		8,189,701	1,506,125
						1,500,125
Homeland Security	Direct 9	7.012	3316SUR160102	US COAST GUARD	153,127	
	Direct Total				153,127	
Homeland Security	Pass-through 9	7 012	1-312-0215847-52926	RTIINTERNATIONAI	455	
Homeland Security	Pass-through		1-312-0213047-323200	MINITERNATIONAL	455	
	Homeland Se		al .		153,582	
Housing and Urban Development	Pass-through 1		18-15 HUD	MICH STATE HOUSING DEVELOPMENT AUTHORITY	31,930	
	Housing and	Urban Dev	elopment Total		31,930	
Interior	Direct 1	5	G16PA00015	US GEOLOGICAL SURVEY	12,902	
Interior	Direct 1		P13PX02284	TREASURY US DEPT OF	11,000	-
Interior		5.658	F17AC00428	US FISH & WILDLIFE SERVICE	32,098	
Interior		5.820	G18AC00336	US GEOLOGICAL SURVEY	20,000	-
Interior		5.945	P18AC01019	NATIONAL PARK SERVICE	9,043	
Interior		5.945	P18AC01067	NATIONAL PARK SERVICE	10,601	
interior	Direct Total	3.343	120/1001007	William Elimination	95,644	
Interior	Pass-through 1		1002791-01	NORTHERN ARIZONA UNIVERSITY	622	-
Interior		5.805	078687-15712	ILLINOIS URBANA CHAMPAIGN, UNIVERSITY OF	24,402	-
Interior		5.805	078687-15712	ILLINOIS URBANA CHAMPAIGN, UNIVERSITY OF	17,324	-
Interior	Pass-through 1		078687-15712	ILLINOIS URBANA CHAMPAIGN, UNIVERSITY OF	4,998	
	Pass-through				47,346	
	Interior Tota	ı			142,990	
Justice	Direct 1	6.001	16W-ENR01-0168	JUSTICE US DEPT OF	(36,983)	
Justice	Direct 1	6.001	90-11-2-529Z	JUSTICE US DEPT OF	48,611	-
Justice		6.562	2018-R2-CX-0002	JUSTICE US DEPT OF	23,478	
Justice		6.738	2018-DP-BX-K011	JUSTICE US DEPT OF	53,032	
	Direct Total				88,138	
Late.		c = ==	6 22020 445 504200	ANGU BUBUG UEALTU INSTITUTE		
Justice		6.575	C-32020-115-504200	MICH PUBLIC HEALTH INSTITUTE	150,029	-
Justice		6.575	E20180565-00	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	146,084	-
Justice		6.575	E20190946-00	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	56,793	-
Justice		6.575	E20192053-00	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	506,207	-
Justice		6.575	E20193139-00	MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES	35,314	-
Justice	Pass-through 1		4-H 2017-JU-FX-0016	NATL 4-H COUNCIL	59,414	-
Justice	Pass-through 1		4-H 2017-JU-FX-0016	NATL 4-H COUNCIL	44,199	-
Justice		6.726	4-H 2018-JU-FX-0005	NATL 4-H COUNCIL	16,270	-
Justice		6.726	4-H 2018-JU-FX-0005	NATL 4-H COUNCIL	3,449	-
Justice	Pass-through 1		NMP7 TTA	NATL 4-H COUNCIL	(20)	-
Justice	Pass-through 1	6.833	3-321-0215016-52458L	RTI INTERNATIONAL	139,226	
	Pass-through	Total			1,156,965	
	Justice Total				1,245,103	
Miscellaneous	Pass-through 9	9	MCA-CI/ATP-TPM-044	COTE D'IVOIRE	1,961	
	Miscellaneou				1,961	-
Note that the second se			0000004740005	NATI ASSOCIATIOS AND SOASS ADA		
National Aeronautics and Space Administration		3.001	80NSSC17K0395	NATL AERONAUTICS AND SPACE ADM	43,085	
	National Aer	onautics a	nd Space Administration Total		43,085	
State	Direct 1	9.040	SCI800-17-GR-0050	STATE US DEPARTMENT OF	23,797	-
State	Direct 1	9.040	SCI800-17-GR-0050	STATE US DEPARTMENT OF	1,629	-
State	Direct 1	9.415	S-ECAGD-17-CA-1077	STATE US DEPARTMENT OF	161,707	-
State	Direct 1	9.415	S-ECAGD-17-CA-1077	STATE US DEPARTMENT OF	78,147	-
State	Direct 1	9.415	SECAGD18CA0017	STATE US DEPARTMENT OF	83,096	-
State	Direct 1	9.415	SECAGD18CA0017	STATE US DEPARTMENT OF	39,314	
	Direct Total				387,690	
State	Pass-through 1	9	1801_5.1.18	INST OF INTERNATL EDUCATION	38,918	
State	Pass-through 1		1801_5.1.18	INST OF INTERNATE EDUCATION  INST OF INTERNATE EDUCATION	31,647	-
State	Pass-through 1		FST1901_MSU EGSP_2019	INST OF INTERNATE EDUCATION	986	-
State	Pass-through 1		FST1901_MSU FLTA 5.1.19	INST OF INTERNATE EDUCATION  INST OF INTERNATE EDUCATION	205	-
State				INST OF INTERNATE EDUCATION  INST OF INTERNATE EDUCATION	205 57	-
			FST1901_MSU_FLTA_5.1.19			-
State		9.010	18-CA-1027	INST OF INTERNATL EDUCATION	168,268	-
State		9.040	SBR25018GR0014	US EMBASSY BRASILIA	16,923	-
State		9.040	SCI80018GR0060	US EMBASSY IN CHILE	15,974	-
State		9.040	SCI80018GR0060	US EMBASSY IN CHILE	7,667	-
State		9.400	1801_MSU_4.24.18	INST OF INTERNATI EDUCATION	58,530	-
State	Pass-through 1		1801_MSU_4.24.18	INST OF INTERNATL EDUCATION	46,887	
	Pass-through	Total			386,062	
	State Total				773,752	
Transportation	Direct 2	0.215	693JJ31945006	FEDERAL HIGHWAY ADMINISTRATION	15,686	-
•	Direct Total				15,686	

### Schedule of Expenditures of Federal Awards (Continued)

			1	Year Ended June 30, 2019			
Federal Agency	Direct/ CFDA Pass-through (Note 5)	Award Number	Grantor Name	Total Expenditures	Subaward Payments		
Other Federal Awards (continued):							
Transportation	Pass-through 20 Pass-through Total	2018-0741	MICHIGAN DEPARTMENT OF TRANSPORTATION	\$ 69,291 69,291	\$ -		
	Transportation Total			84,977			
USAID USAID	Direct 98.001 Direct 98.001	AID-OAA-A-13-00006 AID-OAA-A-13-00006	US AGENCY FOR INTERNATIONAL DEVELOPMENT US AGENCY FOR INTERNATIONAL DEVELOPMENT	4,228,895 130,612	145,556 168,547		
USAID	Direct 98.001	AID-OAA-LA-13-00006 AID-OAA-LA-17-00002	US AGENCY FOR INTERNATIONAL DEVELOPMENT	309,534	243,057		
USAID	Direct 98.012	7200AA18CA00021	US AGENCY FOR INTERNATIONAL DEVELOPMENT	313,472	108,103		
	Direct Total			4,982,513	665,263		
USAID USAID	Pass-through 98.001 Pass-through 98.001	1856-000 2015-07022-02	TETRA TECH INC. ILLINOIS URBANA CHAMPAIGN, UNIVERSITY OF	33,798 3,329			
USAID	Pass-through 98.001	2420	IMPAQ INTL	4,026			
USAID	Pass-through 98.001	87718-11202	CORNELL UNIVERSITY	96,887	-		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	1,579,136	715,637		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	796,207	613,455		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	592,768	25,610		
USAID USAID	Pass-through 98.001 Pass-through 98.001	BHEARD BHEARD	CIMMYT INC CIMMYT INC	533,025 486,781	275,444 384,231		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	467,602	304,231		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	466,717	31,751		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	412,086	412,086		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	392,001			
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	372,443	269,096		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	362,485	360,248		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	241,732	424.426		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	137,626	131,126		
USAID USAID	Pass-through 98.001 Pass-through 98.001	BHEARD BHEARD	CIMMYT INC CIMMYT INC	109,489 71,351	79,383 32,268		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	35,015	(504		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	8,988	(		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	5,673			
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	4,475			
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	4,352	-		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	3,806	-		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	1,854	(8,091		
USAID USAID	Pass-through 98.001 Pass-through 98.001	BHEARD BHEARD	CIMMYT INC CIMMYT INC	1,449 2			
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	(11,801)			
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	(86,370)			
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	(99,932)	(97,524		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	(131,833)	-		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	(132,326)	(129,491		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	(250,532)	(130,142		
USAID	Pass-through 98.001	BHEARD	CIMMYT INC	(412,096)	(313,227		
USAID USAID	Pass-through 98.001 Pass-through 98.001	BHEARD IQC-TtARD-MSU-005	INTL MAIZE & WHEAT IMPROVEMENT CENTER TETRA TECH INC.	21 178,909	-		
USAID	Pass-through 98.001 Pass-through 98.001	SUB-401	CHEMONICS INTERNATIONAL INC	60,118			
OJAID .	Pass-through Total	305-401	CHEMIONICS INTERNATIONAL INC	6,339,261	2,651,356		
	USAID TOTAL			11,321,774	3,316,619		
Vietnam Education Foundation Vietnam Education Foundation	Direct 85.802 Direct 85.802	ARF Deposits VEF	VIETNAM EDUCATION FOUNDATION VIETNAM EDUCATION FOUNDATION	23,265 14,155	-		
Vietnam Education Foundation	Health and Human Se		VIETNAM EDUCATION FOUNDATION	37,420			
	TOTAL OTHER FEDER			44,249,033	6,806,648		
	TOTAL FEDERAL EXPE	NDITURES		\$ 826,867,728			
SUMMARY OF EXPENDITURES BY FEDERAL AGENCY					-		
Health and Human Services				\$ 92,656,145	\$ 17,905,298		
National Science Foundation				86,502,992	8,433,779		
Energy				79,909,344	2,255,520		
Agriculture				58,802,994	9,579,808		
Education				54,953,315 20,785,326	221,666		
USAID Defense				29,785,326 15,205,601	11,771,441 2,205,258		
Justice				5,630,632	1,535,610		
National Aeronautics and Space Administration				2,910,841	304,702		
Commerce				2,531,475	54,655		
Interior				2,393,781	40,145		
Transportation				2,004,875	406,679		
Environmental Protection Agency				1,213,558	150,952		
State Homeland Security				964,754	- 20 155		
Corporation for National and Community Service				308,961 264,105	20,455		
Federal Council on the Arts and Humanities				204,492	-		
Federal Communications Commission				207,208			
Treasury				129,440	-		
Housing and Urban Development				38,752	-		
Vietnam Education Foundation				37,420	-		
Miscellaneous Library of Congress				19,865 11,859			
and the congress				436,687,735	54,885,968		
SUMMARY OF LOAN BALANCES BY FEDERAL AGENCY							
Education				378,227,401	-		
Health and Human Services				<u>11,952,592</u> 390,179,993			
TOTAL FEDERAL EXPENDITURES				\$ 826,867,728	\$ 54,885,968		
				<del></del>			

### Notes to Schedule of Expenditures of Federal Awards

Year Ended June 30, 2019

#### 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, 2019. 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 the accrual basis of accounting. Such expenditures are recognized following, as applicable, 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. Pass-through entity identifying numbers are presented where available.

#### **Note 3 - Indirect Costs**

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 \$76,106,691, which are based on the approved university rate agreement negotiated with the cognizant agency. The negotiated rate was effective from July 1, 2016 through June 30, 2019. The University has negotiated a new rate agreement effective July 1, 2019 through June 30, 2023.

### Note 4 - 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 5 - Catalog of Federal Domestic Assistance (CFDA) Numbers

All programs with identifiable CFDA numbers have been listed separately. Award numbers have been provided for all programs for which CFDA numbers were not available. Programs without an identifiable CFDA number 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, 2019

### Note 6 - Federal Student Loans Granted and Outstanding

As part of the Student Financial Assistance Cluster, the University participates in the Federal Perkins Loan Program through the U.S. Department of Education and the Health Professional Student Loan Program, Nursing Student Loan Program, and 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:

CFDA Number	Loan Program	Loan Issued			Loan Balances	
84.038 93.264 93.342 93.364	Federal Perkins Loan Nurse Faculty Loan Health Professional Student Loan Nursing Student Loans	\$	\$ - 40,416 2,472,622 -		24,492,018 306,001 10,178,169 3,611	
		\$	2,513,038	\$	34,979,799	

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 \$347,578,050 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, 2019.

The University had 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 \$496,157 at June 30, 2019.

### Note 7 - Federal Work-Study Program Adjustments and Transfers

During the year ended June 30, 2019, certain Federal Work-Study funds were transferred in accordance with federal guidelines. The transfers were as follows:

Transferred from		Amount	Transferred to		
Federal Work-Study 2018-2019 Federal Work-Study 2017-2018 Federal Work-Study 2018-2019	\$	125,290	Federal Supplemental Educational Opportunity Grant 2018-2019 Federal Work-Study 2018-2019 Federal Work-Study 2019-2020		
Total	\$	1,073,151	:		

Current Year None

# Schedule of Findings and Questioned Costs

Year Ended June 30, 2019

Section	I - S	Summary	of	Auditor's	Results
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Financial Statemen	ts					
Type of auditor's rep	ort issued:	Unm	Unmodified			
Internal control over						
Material weaknes	s(es) identified?		Yes	XNo		
_	ncy(ies) identified that are I to be material weaknesses?		Yes	X None reported		
Noncompliance mate statements noted			Yes	X None reported		
Federal Awards						
Internal control over	major programs:					
Material weaknes	s(es) identified?		Yes	XNo		
	ncy(ies) identified that are I to be material weaknesses?		Yes	X None reported		
	sclosed that are required to be reported Section 2 CFR 200.516(a)?	in 	Yes	XNo		
Identification of majo	r programs:					
CFDA Number	Name of Federal Pro	gram or Cluster		Opinion		
98.001 Various 10.511 84.032	USAID Foreign Assistance for Program Research and Development Cluster Smith-Lever Extension Program Federal Family Education Loan Program			Unmodified Unmodified Unmodified Unmodified		
Dollar threshold used type A and type B	l to distinguish between programs:	\$3,000,0	000			
Auditee qualified as I	ow-risk auditee?	X	Yes	No		
Section II - Fina	ancial Statement Audit Findi	ngs				
Reference Number		Finding				
Current Year No	one					
Section III - Fed	deral Program Audit Findings	5				