
Reports on the Audit of Federal Award Programs in Accordance with OMB Uniform Guidance

**The Pennsylvania State University
Fiscal Year Ended June 30, 2017**

University Park, Pennsylvania

THE PENNSYLVANIA STATE UNIVERSITY
REPORTS ON THE AUDIT OF
FEDERAL AWARDS
IN ACCORDANCE WITH OMB UNIFORM GUIDANCE
FISCAL YEAR ENDED JUNE 30, 2017

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Joseph J. Doncsecz
Associate Vice President for Finance
and Corporate Controller

The Pennsylvania State University
408 Old Main
University Park, PA 16802-1505

March 26, 2018

Federal Audit Clearinghouse
1201 E. 10th Street
Jeffersonville, IN 47132

To Whom It May Concern:

The Pennsylvania State University's financial, internal control and compliance reports for the fiscal year ended June 30, 2017 are presented on the accompanying pages. The reports have been issued in accordance with the Office of Management and Budget (OMB) Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*. Also enclosed is The Pennsylvania State University's schedule of findings and questioned costs.

Sincerely,

Joseph J. Doncsecz
Associate Vice President for Finance and Corporate Controller

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Enclosures

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Audited Financial Statements

The Pennsylvania State University
Fiscal Year Ended June 30, 2017

INDEPENDENT AUDITORS' REPORT

To the Board of Trustees of The Pennsylvania State University
University Park, Pennsylvania

Report on the Financial Statements

We have audited the accompanying consolidated financial statements of The Pennsylvania State University and its subsidiaries (the "University"), which comprise the consolidated statements of financial position as of June 30, 2017 and 2016, and the related consolidated statements of activities and cash flows for the years then ended, and the related notes to the consolidated financial statements.

Management's Responsibility for the Consolidated Financial Statements

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

Auditors' Responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States.

The consolidated financial statements of the University include various subsidiaries as outlined in Note 1 to the consolidated financial statements. The Penn State Health subsidiaries, including Saint Joseph's Regional Health Network and Medical Group and Nittany Health, Inc. and The Corporation for Penn State subsidiaries, including Penn State Recycling Markets Center, Research Park Management Corporation, The Pennsylvania State University Philanthropic Fund, Ben Franklin Technology Center of Central & Northern PA, Penn State Research Foundation, Research Park Hotel Corporation, and Nittany Insurance Company, are audited in accordance with generally accepted auditing standards, but were not audited in accordance with *Government Auditing Standards* and, accordingly, are not covered by our reports in accordance with *Government Auditing Standards*. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the University's preparation and fair presentation of the consolidated financial statements in order to design audit

procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the University as of June 30, 2017 and 2016, and the changes in its net assets and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated October 20, 2017 on our consideration of the University's internal control over financial reporting and our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal controls over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with the *Government Auditing Standards* in considering the University's internal control over financial reporting and compliance.

Deloitte & Touche LLP

October 20, 2017

THE PENNSYLVANIA STATE UNIVERSITY
CONSOLIDATED STATEMENTS OF FINANCIAL POSITION
ASSETS
JUNE 30, 2017 AND 2016
(in thousands)

	<u>June 30, 2017</u>	<u>June 30, 2016</u>
Current assets:		
Cash and cash equivalents	\$ 1,761,703	\$ 1,395,514
Short-term investments	325,758	371,363
Deposits held by bond trustees	138,954	109,739
Deposits held for others	37,031	10,240
Accounts receivable, net of allowances of \$88,731 and \$83,942	542,603	496,100
Contributions receivable, net	60,893	54,565
Loans to students, net of allowances of \$570 and \$419	9,461	9,304
Inventories	48,152	42,472
Prepaid expenses and other assets	<u>105,807</u>	<u>110,995</u>
Total current assets	<u>3,030,362</u>	<u>2,600,292</u>
Noncurrent assets:		
Deposits held by bond trustees	40,000	21,348
Contributions receivable, net	140,165	124,988
Loans to students, net of allowances of \$2,548 and \$2,107	49,121	51,602
Total investment in plant, net	4,921,412	4,590,311
Beneficial interest in perpetual trusts	19,854	14,558
Investments	5,716,986	5,279,950
Other assets	<u>112,391</u>	<u>97,932</u>
Total noncurrent assets	<u>10,999,929</u>	<u>10,180,689</u>
Total assets	<u><u>\$14,030,291</u></u>	<u><u>\$12,780,981</u></u>

See notes to consolidated financial statements.

THE PENNSYLVANIA STATE UNIVERSITY
CONSOLIDATED STATEMENTS OF FINANCIAL POSITION
LIABILITIES AND NET ASSETS
JUNE 30, 2017 AND 2016
(in thousands)

	<u>June 30, 2017</u>	<u>June 30, 2016</u>
Current liabilities:		
Accounts payable and other accrued expenses	\$ 689,885	\$ 596,027
Deferred revenue	341,261	314,682
Long-term debt	49,432	40,729
Present value of annuities payable	6,574	6,361
Accrued postretirement benefits	56,466	52,665
Total current liabilities	<u>1,143,618</u>	<u>1,010,464</u>
Noncurrent liabilities:		
Deposits held in custody for others	32,724	35,710
Deferred revenue	1,218	1,477
Long-term debt	1,419,961	1,130,547
Present value of annuities payable	51,496	47,498
Accrued postretirement benefits	2,261,996	2,095,857
Refundable United States Government student loans	46,713	47,687
Other liabilities	230,067	204,797
Total noncurrent liabilities	<u>4,044,175</u>	<u>3,563,573</u>
Total liabilities	<u>5,187,793</u>	<u>4,574,037</u>
Net assets:		
Unrestricted -		
Undesignated	1,692	1,658
Designated for specific purposes	3,350,691	3,144,389
Net investment in plant	3,169,239	2,987,299
Total unrestricted - The Pennsylvania State University	<u>6,521,622</u>	<u>6,133,346</u>
Noncontrolling interest	4,609	3,687
Total unrestricted	<u>6,526,231</u>	<u>6,137,033</u>
Temporarily restricted	708,103	551,073
Permanently restricted	1,608,164	1,518,838
Total net assets	<u>8,842,498</u>	<u>8,206,944</u>
Total liabilities and net assets	<u>\$14,030,291</u>	<u>\$12,780,981</u>

See notes to consolidated financial statements.

THE PENNSYLVANIA STATE UNIVERSITY
CONSOLIDATED STATEMENT OF ACTIVITIES
FOR THE YEAR ENDED JUNE 30, 2017
(in thousands)

	Unrestricted	Temporarily Restricted	Permanently Restricted	Total
Operating revenues and other support:				
Tuition and fees, net of discounts of \$205,002	\$ 1,786,430	\$ -	\$ -	\$ 1,786,430
Commonwealth of Pennsylvania -				
Appropriations	296,764	-	-	296,764
Special contracts	68,933	-	-	68,933
Department of General Services projects	47,500	-	-	47,500
United States Government grants and contracts	479,717	-	-	479,717
Private grants and contracts	216,596	-	-	216,596
Gifts and pledges	62,906	24,631	-	87,537
Endowment spending	98,521	-	-	98,521
Other investment income	140,235	1,046	-	141,281
Sales and services of educational activities	84,508	-	-	84,508
Recovery of indirect costs	171,442	-	-	171,442
Auxiliary enterprises	465,716	-	-	465,716
Health System revenue, net of provision for bad debts of \$46,251	2,073,496	-	-	2,073,496
Other sources	40,628	-	-	40,628
Net assets released from restrictions	2,859	(2,859)	-	-
Total operating revenues and other support	6,036,251	22,818	-	6,059,069
Operating expenses:				
Educational and general -				
Instruction	1,402,451	-	-	1,402,451
Research	810,985	-	-	810,985
Public service	100,573	-	-	100,573
Academic support	404,098	-	-	404,098
Student services	204,943	-	-	204,943
Institutional support	400,646	-	-	400,646
Total educational and general	3,323,696	-	-	3,323,696
Auxiliary enterprises	426,204	-	-	426,204
Health System expense	1,927,155	-	-	1,927,155
Total operating expenses	5,677,055	-	-	5,677,055
Increase in net assets from operating activities	359,196	22,818	-	382,014
Nonoperating activities:				
Gifts and pledges	-	-	83,529	83,529
Current year investment returns	160,882	136,561	9,056	306,499
Endowment appreciation utilized	(75,871)	-	-	(75,871)
Changes in funds held by others in perpetuity	-	-	5,204	5,204
Write-offs and disposals of assets	(4,815)	-	-	(4,815)
Nonperiodic change in postretirement benefit plan	(51,116)	-	-	(51,116)
Actuarial adjustment on annuities payable	-	(2,349)	(8,463)	(10,812)
Increase in net assets from nonoperating activities	29,080	134,212	89,326	252,618
Increase in net assets - The Pennsylvania State University	388,276	157,030	89,326	634,632
Noncontrolling interest:				
Excess of revenues over expenses	922	-	-	922
Increase in net assets - noncontrolling interest	922	-	-	922
Increase in total net assets	389,198	157,030	89,326	635,554
Net assets at the beginning of the year	6,137,033	551,073	1,518,838	8,206,944
Net assets at the end of the year	\$ 6,526,231	\$ 708,103	\$ 1,608,164	\$ 8,842,498

See notes to consolidated financial statements.

THE PENNSYLVANIA STATE UNIVERSITY
CONSOLIDATED STATEMENT OF ACTIVITIES
FOR THE YEAR ENDED JUNE 30, 2016
(in thousands)

	Unrestricted	Temporarily Restricted	Permanently Restricted	Total
Operating revenues and other support:				
Tuition and fees, net of discounts of \$178,312	\$ 1,727,826	\$ -	\$ -	\$ 1,727,826
Commonwealth of Pennsylvania -				
Appropriations	294,949	-	-	294,949
Special contracts	74,239	-	-	74,239
Department of General Services projects	41,406	-	-	41,406
United States Government grants and contracts	480,463	-	-	480,463
Private grants and contracts	169,980	-	-	169,980
Gifts and pledges	66,824	11,507	-	78,331
Endowment spending	95,439	-	-	95,439
Other investment income	85,336	1,937	-	87,273
Sales and services of educational activities	76,051	-	-	76,051
Recovery of indirect costs	163,302	-	-	163,302
Auxiliary enterprises	445,562	-	-	445,562
Health System revenue, net of provision for bad debts of \$62,414	1,996,546	-	-	1,996,546
Other sources	33,442	-	-	33,442
Net assets released from restrictions	12,220	(12,220)	-	-
Total operating revenues and other support	<u>5,763,585</u>	<u>1,224</u>	<u>-</u>	<u>5,764,809</u>
Operating expenses:				
Educational and general -				
Instruction	1,326,628	-	-	1,326,628
Research	799,237	-	-	799,237
Public service	87,440	-	-	87,440
Academic support	405,207	-	-	405,207
Student services	193,891	-	-	193,891
Institutional support	371,203	-	-	371,203
Total educational and general	3,183,606	-	-	3,183,606
Auxiliary enterprises	416,600	-	-	416,600
Health System expense	1,843,196	-	-	1,843,196
Total operating expenses	<u>5,443,402</u>	<u>-</u>	<u>-</u>	<u>5,443,402</u>
Increase in net assets from operating activities	320,183	1,224	-	321,407
Nonoperating activities:				
Gifts and pledges	-	-	75,317	75,317
Current year investment returns	(25,789)	(114,512)	10,020	(130,281)
Endowment appreciation utilized	(69,619)	-	-	(69,619)
Changes in funds held by others in perpetuity	-	3	(931)	(928)
Acquisition of restricted net assets	-	4,730	10,862	15,592
Write-offs and disposals of assets	(10,287)	-	-	(10,287)
Nonperiodic change in postretirement benefit plan	41,641	-	-	41,641
Actuarial adjustment on annuities payable	-	(986)	(10,537)	(11,523)
Increase (decrease) in net assets from nonoperating activities	<u>(64,054)</u>	<u>(110,765)</u>	<u>84,731</u>	<u>(90,088)</u>
Increase (decrease) in net assets - The Pennsylvania State University	256,129	(109,541)	84,731	231,319
Noncontrolling interest:				
Excess of revenues over expenses	2,127	-	-	2,127
Increase in net assets - noncontrolling interest	<u>2,127</u>	<u>-</u>	<u>-</u>	<u>2,127</u>
Increase (decrease) in total net assets	258,256	(109,541)	84,731	233,446
Net assets at the beginning of the year	<u>5,878,777</u>	<u>660,614</u>	<u>1,434,107</u>	<u>7,973,498</u>
Net assets at the end of the year	<u>\$ 6,137,033</u>	<u>\$ 551,073</u>	<u>\$ 1,518,838</u>	<u>\$ 8,206,944</u>

See notes to consolidated financial statements.

THE PENNSYLVANIA STATE UNIVERSITY
CONSOLIDATED STATEMENTS OF CASH FLOWS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(in thousands)

	<u>June 30, 2017</u>	<u>June 30, 2016</u>
Cash flows from operating activities:		
Increase in net assets	\$ 635,554	\$ 233,446
Adjustments to reconcile change in net assets to net cash provided by operating activities -		
Actuarial adjustment on annuities payable	10,812	11,523
Contributions restricted for long-term investment	(98,202)	(100,877)
Interest and dividends restricted for long-term investment	(78,598)	(75,605)
Net realized and unrealized (gains) losses on long-term investments	(408,457)	83,251
Depreciation expense	350,531	331,193
Amortization expense	(52)	(371)
Loss on early extinguishment of debt	3,688	6,405
Write-offs and disposals of assets	5,126	11,043
Contributions of land, buildings and equipment	(2,960)	(3,946)
Buildings and equipment provided by Pennsylvania Department of General Services	-	(95)
Contribution to government student loan funds	154	154
Provision for bad debts	63,136	68,655
Increase in deposits held for others	(26,792)	(618)
Increase in receivables	(95,725)	(35,868)
Increase in inventories	(5,679)	(1,317)
Increase in prepaid expenses and other assets	(954)	(44,735)
Increase in accounts payable and other accrued expenses	118,800	39,572
Increase in deferred revenue	26,319	25,390
Increase in accrued postretirement benefits	169,939	57,436
Net cash provided by operating activities	<u>666,640</u>	<u>604,636</u>
Cash flows from investing activities:		
Purchase of land, buildings and equipment	(647,429)	(597,267)
Increase in deposits held by bond trustees	(47,867)	(69,377)
Advances on student loans	(10,652)	(10,766)
Collections on student loans	10,900	10,618
Proceeds from sale of donated financial assets	236	522
Purchase of investments	(3,761,462)	(4,475,766)
Proceeds from sale of investments	3,720,543	4,789,221
Net cash used in investing activities	<u>(735,731)</u>	<u>(352,815)</u>
Cash flows from financing activities:		
Contributions restricted for long-term investment	98,202	100,877
Interest and dividends restricted for long-term investment	78,598	75,605
Payments of annuity obligations	(6,602)	(6,385)
Proceeds from long-term debt	368,213	437,193
Principal payments on long-term debt	(103,303)	(323,335)
Proceeds related to government student loan funds, net of collection costs	172	729
Net cash provided by financing activities	<u>435,280</u>	<u>284,684</u>
Net increase in cash and cash equivalents	366,189	536,505
Cash and cash equivalents at the beginning of the year	<u>1,395,514</u>	<u>859,009</u>
Cash and cash equivalents at the end of the year	<u>\$ 1,761,703</u>	<u>\$ 1,395,514</u>

Supplemental disclosures of cash flow information (Note 2)

See notes to consolidated financial statements.

THE PENNSYLVANIA STATE UNIVERSITY
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016

1. THE UNIVERSITY AND RELATED ENTITIES

The Pennsylvania State University (“the University”), which was created as an instrumentality of the Commonwealth of Pennsylvania (“the Commonwealth” or “Pennsylvania”), is organized as a non-profit corporation under the laws of the Commonwealth. As Pennsylvania’s land grant university, the University is committed to improving the lives of the people of Pennsylvania, the nation and the world through its integrated, tri-part mission of high-quality teaching, research and outreach.

Basis of Presentation

The financial statements of the University include, on a consolidated basis, the consolidated financial statements of Penn State Health (“the Health System”), a Pennsylvania non-profit corporation, and its wholly owned subsidiaries, including the Milton S. Hershey Medical Center (“TMSHMC” or “the Medical Center”), Saint Joseph’s Regional Health Network and Medical Group (“SJRHN/SJMG”), and Nittany Health, Inc. (“Nittany Health”), and the financial statements of The Corporation for Penn State and its subsidiaries (“the Corporation”). See Note 11 for additional information about the Health System. The Corporation is a non-profit member corporation organized in 1985 for the exclusive purpose of benefiting and promoting the interests of the University, the Corporation’s sole member. The Corporation’s financial statements consist primarily of the assets and revenues of The Pennsylvania College of Technology (“Penn College”), a wholly owned subsidiary of the Corporation. All transactions among the University, the Health System, and the Corporation have been eliminated.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting

The University’s consolidated financial statements are prepared on the accrual basis of accounting in conformity with accounting principles generally accepted in the United States of America (GAAP). The Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) is the source of authoritative GAAP.

The University’s consolidated financial statements include statements of financial position, activities and cash flows. In accordance with FASB ASC requirements, net assets and the changes in net assets are classified as permanently restricted, temporarily restricted or unrestricted.

Permanently restricted net assets consist primarily of the historical amounts of endowed gifts. Additionally, contributions receivable and remainder interests, which are required by donors to be permanently retained, are included at their estimated net present values.

Temporarily restricted net assets consist of contributions receivable and remainder interests whose ultimate use is not permanently restricted. In addition, the excess of current market value over the historical cost of permanently restricted endowments is classified as temporarily restricted net assets.

Unrestricted net assets are all the remaining net assets of the University. Net unrealized losses on permanently restricted endowment funds for which historical cost exceeds market value are recorded as a reduction to unrestricted net assets.

Revenue from temporarily restricted sources is reclassified as unrestricted revenue when the circumstances of the restriction have been fulfilled. Donor-restricted revenues whose restrictions are met within the same fiscal year are reported as unrestricted income.

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts on the financial statements and the disclosure of contingencies and commitments. Actual results could differ from those estimates.

Revenue Recognition

Tuition revenue is recognized in the fiscal year in which the substantial portion of the educational term occurs. Institutional financial aid provided by the University for tuition and fees is reflected as a reduction of tuition and fee revenue. Revenues for auxiliary enterprises are recognized as the related goods and services are delivered and rendered. Grant revenues are recognized as the eligible grant activities are conducted. Payments received in advance for tuition, goods and services are deferred.

Unconditional promises to give are recognized as revenues and receivables in the year made and consist of written or oral promises to contribute to the University in the future. Contributions receivable are recorded with the revenue assigned to the appropriate category of restriction. The amounts are present valued based on timing of expected collections.

The Health System has agreements with third-party payors that provide for payments to its subsidiaries at amounts different from their established rates. Payment arrangements include prospectively determined rates per discharge, reimbursed costs, discounted charges and per diem payments. Net patient service revenue is reported at the estimated net realizable amounts from patients, third-party payors and others for services rendered, including estimated retroactive adjustments under reimbursement agreements with third-party payors. In addition, net patient service revenue is net of provision for bad debts of \$46.3 million and \$62.4 million for the years ended June 30, 2017 and 2016, respectively. Retroactive adjustments are accrued on an estimated basis in the period the related services are rendered and adjusted in future periods as final settlements are determined or such estimates change.

The subsidiaries of the Health System provide care to patients who meet certain criteria under its charity care policy without charge or at amounts less than established rates. The Health System does not pursue collection of amounts determined to qualify as charity care; they are not reported as net patient service revenue. The amounts of direct and indirect costs for services and supplies furnished under the Health System's charity care policy totaled approximately \$27.4 million and \$17.7 million for the years ended June 30, 2017 and 2016, respectively, and is based on a ratio of the Health System's operational costs to its gross charges. The amount of charges foregone for services and supplies furnished under the Health System's charity policy during 2017 and 2016 totaled approximately \$53.2 million and \$53.0 million, respectively.

Fair Value of Financial Instruments

The University has provided fair value estimates for certain financial instruments in the notes to the financial statements. Fair value information presented in the financial statements is based on information available at June 30, 2017 and 2016. The carrying amounts of cash and cash equivalents, accounts receivable and accounts payable and other accrued expenses approximate fair value because of the terms and relatively short maturity of these financial instruments. The carrying values of the University's loans to students are also reasonable estimates of their fair value, as the total outstanding loans to students as of June 30, 2017 and 2016 have been made at the rates available to students for similar loans at such times. Investments are reported at fair value as disclosed in Note 3. The fair value of the University's bonds payable is disclosed in Note 7. See Note 5 for further discussion of fair value measurements.

Cash Flows

The following items are included as supplemental disclosure to the statements of cash flows for the years ended June 30:

<i>(in thousands of dollars)</i>	<u>2017</u>	<u>2016</u>
Interest paid	\$ 42,826	\$ 43,039
Non-cash acquisitions of land, buildings and equipment	33,010	131,778

Capitalized costs accrued related to construction are \$73.6 million and \$80.8 million as of June 30, 2017 and 2016, respectively. Taxes paid for 2017 and 2016 are considered immaterial. Cash and cash equivalents include certain investments in highly liquid instruments with initial maturities of 90 days or less, except for such assets held by the University's investment managers as part of their long-term investment strategies. Short-term investments include other current investments held for general operating purposes with maturities greater than 3 months but less than 12 months.

During the year ended June 30, 2016, the Health System finalized the \$113.5 million acquisition of SJRHN/SJMG. Of the \$113.5 million, \$104.4 million relates to property, plant and equipment and is included in 2016 non-cash acquisitions of land, buildings and equipment in the table above. See further discussion related to the acquisition in Note 11.

Accounts Receivable

Accounts receivable, net at June 30 consists of the following:

<i>(in thousands of dollars)</i>	<u>2017</u>	<u>2016</u>
Grants and contracts, net of allowance of \$2,214 and \$1,211	\$ 187,903	\$ 173,067
Patient accounts receivable, net of allowance of \$61,448 and \$68,743	197,613	226,381
Student receivables, net of allowance of \$18,500 and \$7,930	54,162	27,183
Investment and interest receivable	47,197	12,665
Other, net of allowance of \$6,569 and \$6,058	55,728	56,804
Total accounts receivable, net	<u>\$ 542,603</u>	<u>\$ 496,100</u>

The University maintains allowances for doubtful accounts to reflect management's best estimate of probable losses inherent in receivable balances. Management determines the allowances for doubtful accounts based on known factors, historical experience, and other currently available evidence. Receivables are written off when management determines they will not be collected.

Related to patient accounts receivable associated with services provided to patients who have third-party coverage, management analyzes contractually due amounts and provides an allowance for doubtful accounts (for example, for expected uncollectible deductibles and copayments or for payors who are known to be having financial difficulties that make the realization of amounts due unlikely). For receivables from self-pay patients, the subsidiaries of the Health System record a provision for bad debts in the period of service on the basis of past experience, which indicates that many patients are unable or unwilling to pay the portion of their bill for which they are financially responsible. In estimating the allowance for doubtful accounts, account age is taken into consideration. The difference between the standard rates (or the discounted rates if negotiated) and the amounts actually collected after all reasonable collection efforts have been exhausted is charged off against the allowance for doubtful accounts.

Loans to Students

Loans to students are disbursed to qualified students based on need and include loans granted by the University from institutional resources and under federal government loan programs. Students have a

grace period until repayment is required based upon the earlier of graduation or no longer achieving at least half-time enrollment status. The grace period varies depending on the type of loan. Loans accrue interest after the grace period and are repaid directly to the University. Loans to students are uncollateralized and carry default risk. At June 30, 2017 and 2016, student loans represent 0.4% and 0.5% of total assets, respectively.

The availability of funds for loans under federal government revolving loan programs is dependent on reimbursements to the pool from repayments of outstanding loans. Funds advanced by the federal government of \$46.7 million and \$47.7 million at June 30, 2017 and 2016, respectively, are ultimately refundable to the government and are classified as liabilities in the consolidated statements of financial position. Outstanding loans cancelled under the program result in a reduction of the funds available to loan and a decrease in the liability to the federal government.

Loans to students consisted of the following at June 30:

<i>(in thousands of dollars)</i>	<u>2017</u>	<u>2016</u>
Loans to students:		
Federal government loan programs:		
Perkins loan program	\$ 42,772	\$ 44,381
Health Professions Student Loans and Loans for Disadvantaged Students	<u>39</u>	<u>49</u>
Federal government loan programs	42,811	44,430
Institutional loan programs	<u>18,889</u>	<u>19,002</u>
	61,700	63,432
Less allowance for doubtful accounts:		
Balance, beginning of year	(2,526)	(3,156)
Provision for doubtful accounts	<u>(592)</u>	<u>630</u>
Balance, end of year	<u>(3,118)</u>	<u>(2,526)</u>
Loans to students, net	<u>\$ 58,582</u>	<u>\$ 60,906</u>

Allowances for doubtful accounts are established based on prior collection experience and current economic factors which, in management's judgment, could influence the ability of loan recipients to repay the amounts according to the terms of the loan. Further, the University does not evaluate credit quality of student loans receivable after the initial approval of the loan. Loans to students are considered past due when payment is not received by the due date, and interest continues to accrue until the loan is paid in full or written off. When loans to students are deemed uncollectible, an allowance for doubtful accounts is established. Further, the University does not evaluate the credit quality of the student loans receivable after the initial approval and calculation of the loans.

The University considers the age of the amounts outstanding in determining the collectability of loans to students. The aging of the loans to students based on days delinquent and the related allowance for doubtful accounts at June 30 are as follows:

	<i>(in thousands of dollars)</i>				
	<u>45 days or less</u>	<u>46-75 days</u>	<u>76-105 days</u>	<u>Over 105 days</u>	<u>Total</u>
<u>2017</u>					
Loans to students:					
Federal government loan programs	\$ 36,638	\$ 31	\$ 37	\$ 6,105	\$ 42,811
Institutional loan programs	<u>16,056</u>	<u>21</u>	<u>16</u>	<u>2,796</u>	<u>18,889</u>
Total loans to students	<u>52,694</u>	<u>52</u>	<u>53</u>	<u>8,901</u>	<u>61,700</u>
Allowance for doubtful accounts:					
Federal government loan programs					(457)
Institutional loan programs					<u>(2,661)</u>
Total allowance for doubtful accounts					<u>(3,118)</u>
Total loans to students, net					<u>\$ 58,582</u>

	<i>(in thousands of dollars)</i>				
	<u>45 days or less</u>	<u>46-75 days</u>	<u>76-105 days</u>	<u>Over 105 days</u>	<u>Total</u>
<u>2016</u>					
Loans to students:					
Federal government loan programs	\$ 37,547	\$ 28	\$ 20	\$ 6,835	\$ 44,430
Institutional loan programs	<u>16,194</u>	<u>27</u>	<u>15</u>	<u>2,766</u>	<u>19,002</u>
Total loans to students	<u>53,741</u>	<u>55</u>	<u>35</u>	<u>9,601</u>	<u>63,432</u>
Allowance for doubtful accounts:					
Federal government loan programs					(441)
Institutional loan programs					<u>(2,085)</u>
Total allowance for doubtful accounts					<u>(2,526)</u>
Total loans to students, net					<u>\$ 60,906</u>

Inventories

Inventories are stated at the lower of cost or market, generally on the first-in, first-out basis.

Investments

The University's noncurrent investments represent the University's endowment and other investments held for general operating purposes. The University's investments are reported at fair value in the accompanying financial statements. Investments in equity securities with readily determinable fair values and all investments in debt securities are reported at fair values with gains and losses included in the consolidated statements of activities. In the management of investments, the University authorizes certain investment managers to purchase derivative securities to attain a desired market position; and the University may directly invest in derivative securities to attain a desired market position. The University does not trade or issue derivative financial instruments other than through the investment management practices noted above. The University

records derivative securities at fair value with gains and losses reflected in the consolidated statements of activities.

The estimated fair value amounts for marketable debt, equity and fixed income securities held by the University have been reviewed by the University and determined using available market information as supplied by the various financial institutions that act as trustees or custodians for the University. For non-liquid holdings, generally limited partnership investments in private real estate, venture capital, private equity, natural resources, and private debt, estimated fair value is determined based upon financial information provided by the general partner. This financial information includes assumptions and methods that were reviewed by University management. The University believes that the estimated fair value is a reasonable estimate of market value as of June 30, 2017 and 2016. Because the limited partnerships are not readily marketable, the estimated value is subject to uncertainty and, therefore, may differ from the value that would have been used had a ready market existed, and such differences could be material.

Income on operating investments and income used for the annual distribution under the annual spending policy for endowments are reported in operating revenues within the consolidated statement of activities.

Beneficial Interest in Perpetual Trusts

The University is the beneficiary of certain perpetual trusts held and administered by outside trustees. The fair value of these trust assets has been recorded as permanently restricted net assets and related beneficial interest in perpetual trusts in the consolidated financial statements.

Investment in Plant

Total investment in plant as of June 30 is comprised of the following:

<i>(in thousands of dollars)</i>	<u>2017</u>	<u>2016</u>
Land	\$ 134,153	\$ 133,473
Buildings	6,771,677	6,272,904
Improvements other than buildings	678,049	650,696
Equipment	<u>1,497,053</u>	<u>1,382,532</u>
Total plant	9,080,932	8,439,605
Less accumulated depreciation	<u>(4,159,520)</u>	<u>(3,849,294)</u>
Total investment in plant, net	<u>\$ 4,921,412</u>	<u>\$ 4,590,311</u>

The value of land, buildings, and equipment is recorded at cost or, if received as gifts, at fair value at date of gift. The University does not capitalize the cost of library books. Depreciation is computed over the estimated useful lives of the assets using the straight-line method. Useful lives range from 4 to 50 years for buildings, 10 to 20 years for improvements other than buildings, and 1 to 20 years for equipment. Depreciation expense was \$350.5 million and \$331.2 million for the fiscal years ended June 30, 2017 and 2016, respectively. The University has certain building and equipment lease agreements in effect which are considered capital leases that are included as long-term debt in the statements of financial position. These leases have been capitalized at the lower of fair market value or net present value of the minimum lease payments. Buildings and equipment held under capital leases are amortized on a straight-line basis over the shorter of the lease terms or the estimated useful lives of the assets. The capitalized cost and accumulated depreciation of the leases at June 30, 2017 and 2016 was \$188.0 million and \$85.4 million, and \$169.2 million and \$72.5 million, respectively.

Accounts Payable and Other Accrued Expenses

Accounts payable and other accrued expenses at June 30 consist of the following:

<i>(in thousands of dollars)</i>	<u>2017</u>	<u>2016</u>
Accounts payable (non-Health System)	\$ 265,025	\$ 248,897
Health System accounts payable and other accrued expenses	262,722	268,324
Accrued payroll and other related liabilities	143,546	64,690
Accrued bond interest	15,705	9,027
Student deposits	<u>2,887</u>	<u>5,089</u>
Total accounts payable and other accrued expenses	<u>\$ 689,885</u>	<u>\$ 596,027</u>

Impairment of Long-Lived Assets

Long-lived assets, which include investment in plant and definite-lived intangible assets, are assessed for impairment whenever events or changes in circumstances indicate the carrying amount of the asset may not be recoverable. An impairment loss is recognized in change in net assets in the period that the impairment occurs.

Asset Retirement Obligations

The University has recognized liabilities for asset retirement obligations. The University has identified asbestos abatement and the decommissioning of the Breazeale Nuclear Reactor as conditional asset retirement obligations. These obligations are reported as part of other noncurrent liabilities within the consolidated statement of financial position. The following table details the change in liabilities for the years ended June 30:

	<i>(in thousands of dollars)</i>
Balance as of June 30, 2015	\$ 71,585
Adjustment to liability	2,615
Accretion expense	2,924
Liabilities settled	<u>(3,022)</u>
Balance as of June 30, 2016	74,102
Adjustment to liability	12,892
Accretion expense	3,164
Liabilities settled	<u>(6,945)</u>
Balance as of June 30, 2017	<u>\$ 83,213</u>

Annuities Payable

Annuities payable consist of annuity payments currently due and the actuarial amount of annuities payable. The actuarial amount of annuities payable is the present value of the aggregate liability for annuity payments over the expected lives of the beneficiaries.

Net Assets

Net assets consist of the following at June 30:

<i>(in thousands of dollars)</i>	<u>2017</u>	<u>2016</u>
Unrestricted net assets	\$ 6,526,231	\$ 6,137,033
Temporarily restricted net assets:		
Future contributions	\$ 146,180	\$ 124,003
Annuity and life income funds	32,070	21,587
Contributions for property, plant and equipment	6,278	5,876
Term endowments and accumulated endowment gains	<u>523,575</u>	<u>399,607</u>
Total temporarily restricted net assets	<u>\$ 708,103</u>	<u>\$ 551,073</u>
Permanently restricted net assets:		
Future contributions	\$ 89,734	\$ 100,641
Annuity and life income funds	36,069	37,356
Student loan funds	16,890	16,560
Perpetual trusts and other funds	28,013	22,444
Endowment funds	<u>1,437,458</u>	<u>1,341,837</u>
Total permanently restricted net assets	<u>\$ 1,608,164</u>	<u>\$ 1,518,838</u>
Total net assets	<u>\$ 8,842,498</u>	<u>\$ 8,206,944</u>

Income Taxes

The University files U.S. federal and state tax returns. The statute of limitations on the University's federal returns generally remains open for three years following the year they are filed. In accordance with ASC 740 Income Taxes Topic, the University continues to evaluate tax positions and has determined there is no material impact on the University financial statements.

Recent Accounting Pronouncements

In May 2014, the FASB issued Accounting Standards Update ("ASU") 2014-09, "Revenue from Contracts with Customers." This guidance clarifies the principles for recognizing revenue that (1) removes inconsistencies and weaknesses in revenue requirements, (2) provides a more robust framework for addressing revenue issues, (3) improves comparability of revenue recognition practices across entities, industries, jurisdictions, and capital markets, (4) provides more useful information to users of financial statements through improved disclosure requirements, and (5) simplifies the preparation of financial statements by reducing the number of requirements to which an entity must refer. In August 2015, the FASB issued ASU 2015-14, "Revenue from Contracts with Customers; Deferral of the Effective Date." This guidance defers the effective date of the original ASU. This guidance is now effective for the University beginning July 1, 2018. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

In February 2015, the FASB issued ASU 2015-02, "Consolidation; Amendments to the Consolidation Analysis." This update provides enhanced guidance for entities to apply in performing consolidation analyses and was effective for the University beginning July 1, 2016. The adoption of this guidance did not have a material impact on the consolidated financial statements.

In July 2015, the FASB issued ASU 2015-11, "Inventory; Simplifying the Measurement of Inventory." This guidance requires entities to measure inventory within the scope of the update at the lower of cost and net realizable value. This guidance is effective for the University beginning July 1, 2017 with early adoption permitted. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

In January 2016, the FASB issued ASU 2016-01, "Financial Instruments – Overall; Recognition and Measurement of Financial Assets and Financial Liabilities." This guidance addresses certain aspects of

recognition, measurement, presentation, and disclosure of financial instruments. This guidance is effective for the University beginning July 1, 2018. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

In February 2016, the FASB issues ASU 2016-02, "*Leases.*" This guidance requires substantial changes to lease accounting to increase transparency and comparability among organizations by recognizing lease assets and lease liabilities on the balance sheet and disclosing key information about leasing arrangements. The main difference between previous GAAP and this guidance is the recognition of lease assets and lease liabilities by lessees for those leases classified as operating under previous GAAP. This guidance is effective for the University beginning July 1, 2019 with early adoption permitted. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

In August 2016, the FASB issued ASU 2016-14, "*Not-for-Profit Entities; Presentation of Financial Statements of Not-for-Profit Entities.*" This guidance amends the requirements for financial statements and notes in Topic 958, Not-for-Profit Entities. The most significant amendment requires a not-for-profit entity ("NFP") to present on the face of the statement of financial position amounts for two classes of net assets at the end of the period, rather than for the currently required three classes. That is, an NFP will report amounts for *net assets with donor restrictions* and *net assets without donor restrictions*, as well as the currently required amount for total net assets. This guidance is effective for the University beginning July 1, 2018 with early adoption permitted. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

In August 2016, the FASB issued ASU 2016-15, "*Statement of Cash Flows; Classification of Certain Cash Receipts and Cash Payments.*" This update provides guidance on eight specific cash flows issues with the objective of reducing the existing diversity in practice. This guidance is effective for the University beginning July 1, 2018 with early adoption permitted. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

In January 2017, the FASB issued ASU 2017-02, "*Not-for-Profit Entities—Consolidation; Clarifying When a Not-for-Profit Entity That Is a General Partner or a Limited Partner Should Consolidate a For-Profit Limited Partnership or Similar Entity.*" This update amends the consolidation guidance in Subtopic 958-810, Not-for-Profit Entities—Consolidation, to clarify when a NFP that is a general partner or a limited partner should consolidate a for-profit limited partnership or similar legal entity once the amendments in ASU 2015-02 become effective. This guidance is effective for the University beginning July 1, 2017 with early adoption permitted. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

In March 2017, the FASB issued ASU 2017-07, "*Compensation – Retirement Benefits; Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost.*" This update requires that an employer report the service cost component in the same line items as other compensation costs arising from services rendered by the pertinent employees during the period. In addition, the other components of net benefit cost are required to be presented in the income statement separately from the service cost component and outside a subtotal of income from operations. This guidance is effective for the University beginning July 1, 2018 with early adoption permitted. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

3. INVESTMENTS

Investments by major category as of June 30 are summarized as follows:

<i>(in thousands of dollars)</i>	<u>2017</u>	<u>2016</u>
Money markets	\$ 144,065	\$ 93,741
Fixed income:		
U.S. government/agency	1,030,281	1,158,474
U.S. corporate	972,121	908,609
Foreign	183,270	199,586
Other	228,070	243,678
Equities	1,911,096	1,566,626
Private capital	<u>1,573,841</u>	<u>1,480,599</u>
Total	<u>\$ 6,042,744</u>	<u>\$ 5,651,313</u>

Other fixed income investments consist of collateralized mortgage obligations, mortgage-backed securities and asset-backed securities. Equity investments are comprised of domestic and foreign common stocks. Private capital consists primarily of interests in private real estate, venture capital, private equity, natural resources, private debt, commodities and hedge fund limited partnerships.

Futures contracts, which are fully cash collateralized, comprise the University's beneficially held derivative instruments at June 30, 2017 and 2016, are marked to market daily, and are included in the fair value of the University's investments. The fair value of derivative instruments is included in the fair value of the University's investments within the money market category. Futures contracts have minimal credit risk because the counterparties are the exchanges themselves. Fully cash collateralized derivative securities comprised \$5.2 million, 0.09% of total investments, and \$4.4 million, 0.08% of total investments at June 30, 2017 and 2016, respectively. The University's derivatives consist of S&P 500 futures at June 30, 2017 and 2016 and are employed as a low cost, passive investment vehicle with daily liquidity which allows the University to maintain desired market exposure in light of irregular cash flows.

The following schedules summarize the investment return and its classification in the consolidated statement of activities for the years ended June 30:

<i>(in thousands of dollars)</i>	<u>2017</u>	<u>Unrestricted</u>	<u>Temporarily Restricted</u>	<u>Permanently Restricted</u>	<u>Total</u>
Dividends and interest	\$ 162,885	\$ 1,046	\$ 9,056	\$ 172,987	
Net realized gains	82,810	43,339	-	126,149	
Net unrealized gains	<u>78,072</u>	<u>93,222</u>	-	<u>171,294</u>	
Total returns	<u>\$ 323,767</u>	<u>\$ 137,607</u>	<u>\$ 9,056</u>	<u>\$ 470,430</u>	

<i>(in thousands of dollars)</i>	<u>2016</u>	<u>Unrestricted</u>	<u>Temporarily Restricted</u>	<u>Permanently Restricted</u>	<u>Total</u>
Dividends and interest	\$ 111,156	\$ 1,937	\$ 10,020	\$ 123,113	
Net realized gains (losses)	62,289	(17,965)	-	44,324	
Net unrealized losses	<u>(88,078)</u>	<u>(96,547)</u>	-	<u>(184,625)</u>	
Total returns	<u>\$ 85,367</u>	<u>\$ (112,575)</u>	<u>\$ 10,020</u>	<u>\$ (17,188)</u>	

4. ENDOWMENT NET ASSETS

The University's endowment includes both donor-restricted endowment funds and funds designated to function as endowments. As required by GAAP, net assets associated with endowment funds, including funds designated to function as endowments, are classified and reported based on the existence or absence of donor-imposed restrictions.

The ASC Not-for-Profit Entities Presentation of Financial Statements Subtopic (ASC Subtopic 958-205) provides guidance on the net asset classification of donor-restricted endowment funds for not-for-profit organizations subject to an enacted version of the Uniform Prudent Management of Institutional Funds Act (“UPMIFA”) and improves disclosure about an organization’s endowment funds regardless of whether the organization is subject to UPMIFA. The Commonwealth of Pennsylvania has not adopted UPMIFA but rather has enacted Pennsylvania Act 141 (“PA Act 141”). PA Act 141 permits an organization’s trustees to define income as a stipulated percentage of endowment assets (between 2% and 7% of the fair value of the assets averaged over a period of at least three preceding years) without regard to actual interest, dividend, or realized and unrealized gains.

The University has interpreted PA Act 141 to permit the University to spend the earnings of its endowment based on a total return approach, without regard to the fair value of the original gift. As a result of this interpretation, the University classifies as permanently restricted net assets the original value of gifts donated to the permanent endowment, the original value of subsequent gifts to the permanent endowment, and accumulations to the permanent endowment made in accordance with the direction of the applicable donor gift instrument at the time the accumulation is added to the fund. Funds functioning as endowments are established at the direction of University management and are classified as unrestricted net assets due to the lack of external donor restrictions. Gains and losses attributable to permanent endowments are recorded as temporarily restricted net assets and gains and losses attributable to funds functioning as endowments are recorded as unrestricted net assets.

From time to time, due to unfavorable market fluctuations, the fair value of some assets associated with individual donor-restricted endowment funds may fall below the level that donors require to be retained as a perpetual fund, while other assets are unaffected to the same extent and maintain or exceed the level required. The aggregate amount of deficiencies at June 30, 2017 and 2016 was \$1.3 million and \$7.4 million, respectively, reported in unrestricted net assets on the consolidated statement of activities. Subsequent investment gains will be used to restore the balance up to the fair market value of the original gift. Subsequent gains above that amount will be recorded as temporarily restricted net assets.

Endowment net asset composition by type of fund as of June 30:

<i>(in thousands of dollars)</i>		Temporarily	Permanently	
<u>2017</u>	<u>Unrestricted</u>	<u>Restricted</u>	<u>Restricted</u>	<u>Total</u>
Donor-restricted endowment funds	\$ (1,299)	\$ 521,602	\$ 1,424,224	\$ 1,944,527
Funds functioning as endowments	<u>651,647</u>	<u>-</u>	<u>-</u>	<u>651,647</u>
Total net assets	<u>\$ 650,348</u>	<u>\$ 521,602</u>	<u>\$ 1,424,224</u>	<u>\$ 2,596,174</u>
<i>(in thousands of dollars)</i>		Temporarily	Permanently	
<u>2016</u>	<u>Unrestricted</u>	<u>Restricted</u>	<u>Restricted</u>	<u>Total</u>
Donor-restricted endowment funds	\$ (7,353)	\$ 398,384	\$ 1,330,966	\$ 1,721,997
Funds functioning as endowments	<u>594,587</u>	<u>-</u>	<u>-</u>	<u>594,587</u>
Total net assets	<u>\$ 587,234</u>	<u>\$ 398,384</u>	<u>\$ 1,330,966</u>	<u>\$ 2,316,584</u>

Changes in endowment net assets for the years ended June 30:

<i>(in thousands of dollars)</i>				
<u>2017</u>	<u>Unrestricted</u>	<u>Temporarily Restricted</u>	<u>Permanently Restricted</u>	<u>Total</u>
Endowment net assets, beginning of the year	\$ 587,234	\$ 398,384	\$ 1,330,966	\$ 2,316,584
Endowment return:				
Endowment earnings	22,650	20	3,398	26,068
Net realized gains	89,401	41,482	-	130,883
Net unrealized gains	27,652	87,277	-	114,929
Reclassification of funds with deficiencies	<u>6,054</u>	<u>(6,054)</u>	<u>-</u>	<u>-</u>
Total endowment return	<u>145,757</u>	<u>122,725</u>	<u>3,398</u>	<u>271,880</u>
Contributions	-	493	89,860	90,353
Endowment spending	(98,521)	-	-	(98,521)
Transfers to create funds functioning as endowments	<u>15,878</u>	<u>-</u>	<u>-</u>	<u>15,878</u>
Endowment net assets, end of the year	<u>\$ 650,348</u>	<u>\$ 521,602</u>	<u>\$ 1,424,224</u>	<u>\$ 2,596,174</u>
 <i>(in thousands of dollars)</i>				
<u>2016</u>	<u>Unrestricted</u>	<u>Temporarily Restricted</u>	<u>Permanently Restricted</u>	<u>Total</u>
Endowment net assets, beginning of the year	\$ 618,419	\$ 500,533	\$ 1,249,838	\$ 2,368,790
Endowment return:				
Endowment earnings	25,820	19	3,727	29,566
Net realized gains (losses)	63,939	(17,736)	-	46,203
Net unrealized losses	(30,090)	(91,831)	-	(121,921)
Reclassification of funds with deficiencies	<u>(5,899)</u>	<u>5,899</u>	<u>-</u>	<u>-</u>
Total endowment return	<u>53,770</u>	<u>(103,649)</u>	<u>3,727</u>	<u>(46,152)</u>
Contributions	-	1,500	77,401	78,901
Endowment spending	(95,439)	-	-	(95,439)
Transfers to create funds functioning as endowments	<u>10,484</u>	<u>-</u>	<u>-</u>	<u>10,484</u>
Endowment net assets, end of the year	<u>\$ 587,234</u>	<u>\$ 398,384</u>	<u>\$ 1,330,966</u>	<u>\$ 2,316,584</u>

Not included above are the endowment net assets of subsidiaries of \$18.1 million and \$14.7 million as of June 30, 2017 and 2016, respectively.

The University has adopted investment and spending policies for endowment assets that attempt to provide a relatively predictable stream of funding to programs supported by its endowment while seeking to maintain, over time, the purchasing power of the endowment assets. The overall management objective for the University's pooled endowment funds is to preserve or grow the real (inflation-adjusted) purchasing power of the assets through a prudent long-term investment strategy. This objective would be achieved on a total return basis. Under these policies, as approved by the Board of Trustees and the Penn State Investment Council, the primary investment objective of the University's pooled endowment is to attain a real total return (net of investment management fees) that at least equals a total annual effective spending rate of 5.25% (program spending of 4.5% plus administrative costs of 0.75%) over the long term.

To satisfy its long-term rate-of-return objectives, the University relies on a total return strategy in which investment returns are achieved through both capital appreciation (realized and unrealized) and current yield (interest and dividends). The University targets diversified asset allocation that places a greater emphasis on equity-based investments to achieve its long-term return objectives within prudent risk constraints. The endowment assets of the University are invested in a broad range of equities and fixed income securities, thereby limiting the market risk exposure in any one institution or individual investment.

The University has a policy of appropriating for distribution each year a certain percentage (4.5% for 2017 and 2016) of its pooled endowment fund's average fair market value over the prior five years preceding the fiscal year in which the distribution is planned. Accordingly, over the long term, the University expects the current spending policy to allow its endowment to provide generous current spending while preserving "intergenerational equity". This is consistent with the University's objective to maintain the purchasing power of the endowment assets held in perpetuity as well as to provide additional real growth through new gifts and investment returns.

5. FAIR VALUE MEASUREMENTS

The University utilizes the following fair value hierarchy, which prioritizes into three broad levels the inputs to valuation techniques used to measure fair value:

Level 1 – Quoted prices (unadjusted) for identical assets or liabilities in active markets as of the measurement date. Such instruments valued at Level 1 primarily consist of securities that are directly held and actively traded in public markets.

Level 2 – Inputs other than unadjusted quoted prices that are observable for the asset or liability, directly or indirectly, including quoted prices for similar assets or liabilities in active markets, inputs other than quoted prices that are observable for the asset or liability, and inputs that are derived from observable market data by correlation or other means.

Level 3 – Unobservable inputs that cannot be corroborated by observable market data.

In instances in which the inputs used to measure fair value fall into different levels of the fair value hierarchy, the fair value measurement has been determined based on the lowest level input that is significant to the fair value measurement in its entirety. The University's assessment of significance of a particular item to the fair value measurement in its entirety requires judgment, including consideration of inputs specific to the asset.

The following table presents information as of June 30, 2017 about the University's financial assets and liabilities that are measured at fair value on a recurring basis:

<i>(in thousands of dollars)</i>	Quoted Prices in Active Markets For Identical Assets <u>Level 1</u>	Significant Other Observable Inputs <u>Level 2</u>	Significant Unobservable Inputs <u>Level 3</u>	Total <u>Fair Value</u>
Assets:				
Long-term Investment Pool:				
Money markets	\$ 128,632	\$ -	\$ -	\$ 128,632
Fixed income				
U.S. government/agency	85,021	80,107	-	165,128
U.S. corporate	-	243,578	-	243,578
Foreign	-	86,431	-	86,431
Other	-	32,905	-	32,905
Equities	<u>1,102,498</u>	-	-	<u>1,102,498</u>
Total	<u>\$ 1,316,151</u>	<u>\$ 443,021</u>	<u>\$ -</u>	<u>\$ 1,759,172</u>
Operating investments:				
Money markets	\$ 15,424	\$ 9	\$ -	\$ 15,433
Fixed income				
U.S. government/agency	633,619	231,535	-	865,154
U.S. corporate	82,513	646,029	-	728,542
Foreign	11,948	84,892	-	96,840
Other	20,031	175,134	-	195,165
Equities	<u>146,726</u>	<u>16</u>	<u>4,688</u>	<u>151,430</u>
Total	<u>\$ 910,261</u>	<u>\$ 1,137,615</u>	<u>\$ 4,688</u>	<u>\$ 2,052,564</u>
Deposits held by bond trustees:				
Money markets	\$ 178,954	\$ -	\$ -	\$ 178,954
Fixed income				
U.S. government/agency	-	-	-	-
Total	<u>\$ 178,954</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 178,954</u>
Beneficial interest in perpetual trusts	\$ -	\$ -	\$ 19,854	\$ 19,854
Liabilities:				
Present value of annuities payable	\$ -	\$ -	\$ 58,070	\$ 58,070

The following table presents information as of June 30, 2016 about the University's financial assets and liabilities that are measured at fair value on a recurring basis:

<i>(in thousands of dollars)</i>	Quoted Prices in Active Markets For Identical Assets <u>Level 1</u>	Significant Other Observable Inputs <u>Level 2</u>	Significant Unobservable Inputs <u>Level 3</u>	Total <u>Fair Value</u>
Assets:				
Long-term Investment Pool:				
Money markets	\$ 84,516	\$ -	\$ -	\$ 84,516
Fixed income				
U.S. government/agency	284,969	15,881	-	300,850
U.S. corporate	-	190,065	-	190,065
Foreign	-	115,349	-	115,349
Other	-	40,035	-	40,035
Equities	<u>823,912</u>	<u>102,341</u>	-	<u>926,253</u>
Total	<u>\$ 1,193,397</u>	<u>\$ 463,671</u>	<u>\$ -</u>	<u>\$ 1,657,068</u>
Operating investments:				
Money markets	\$ 9,215	\$ 10	\$ -	\$ 9,225
Fixed income				
U.S. government/agency	615,449	242,175	-	857,624
U.S. corporate	79,241	639,303	-	718,544
Foreign	11,272	72,965	-	84,237
Other	25,114	178,529	-	203,643
Equities	<u>127,318</u>	<u>59</u>	<u>4,214</u>	<u>131,591</u>
Total	<u>\$ 867,609</u>	<u>\$ 1,133,041</u>	<u>\$ 4,214</u>	<u>\$ 2,004,864</u>
Deposits held by bond trustees:				
Money markets	\$ 130,639	\$ -	\$ -	\$ 130,639
Fixed income				
U.S. government/agency	-	448	-	448
Total	<u>\$ 130,639</u>	<u>\$ 448</u>	<u>\$ -</u>	<u>\$ 131,087</u>
Beneficial interest in perpetual trusts	\$ -	\$ -	\$ 14,558	\$ 14,558
Liabilities:				
Present value of annuities payable	\$ -	\$ -	\$ 53,859	\$ 53,859

The fair value tables above exclude investments of \$2,231.0 million and \$1,989.4 million as of June 30, 2017 and 2016, respectively, which are measured at NAV and are not classified in the fair value hierarchy.

The Long-term Investment Pool (LTIP) is a mutual fund-like vehicle used for investing the University's endowment funds, funds functioning as endowments, and other operating funds that are expected to be held long-term. A share method of accounting for the LTIP is utilized by the University. Each participating fund enters into and withdraws from the LTIP based on monthly share values. At June 30, 2017 and 2016, fair value of endowment funds and funds functioning as endowments within the LTIP totaled \$2,615.6 million and \$2,362.2 million, respectively. At June 30, 2017 and 2016, fair value of operating funds included in the LTIP totaled \$1,370.9 million and \$1,280.0 million, respectively.

The following tables present information related to changes in Level 3 for each category of financial assets and liabilities for year ended June 30, 2017:

<i>(in thousands of dollars)</i>	<u>Operating Investments</u>	<u>Beneficial Interest in Perpetual Trusts</u>
<u>Assets:</u>		
Beginning balance	\$ 4,214	\$ 14,558
Total realized and unrealized gains	540	5,296
Sales	<u>(66)</u>	<u>-</u>
Ending balance	<u>\$ 4,688</u>	<u>\$ 19,854</u>
	<u>Present Value of Annuities Payable</u>	
<u>Liabilities:</u>		
Beginning balance	\$ 53,859	
Actuarial adjustment of liability	3,460	
Gifts	3,144	
Sales	<u>(2,393)</u>	
Ending balance	<u>\$ 58,070</u>	

The following tables present information related to changes in Level 3 for each category of financial assets and liabilities for year ended June 30, 2016:

<i>(in thousands of dollars)</i>	<u>Operating Investments</u>	<u>Beneficial Interest in Perpetual Trusts</u>
<u>Assets:</u>		
Beginning balance	\$ 5,779	\$ 15,471
Total realized and unrealized gains (losses)	502	(913)
Purchases	599	-
Sales	<u>(2,666)</u>	<u>-</u>
Ending balance	<u>\$ 4,214</u>	<u>\$ 14,558</u>
	<u>Present Value of Annuities Payable</u>	
<u>Liabilities:</u>		
Beginning balance	\$ 48,721	
Actuarial adjustment of liability	(1,556)	
Gifts	6,886	
Sales	<u>(192)</u>	
Ending balance	<u>\$ 53,859</u>	

There were no transfers of assets between Level 3 and Level 2 and between Level 1 and Level 2 in 2017 and 2016.

The following table presents the fair value and redemption frequency for those investments whose fair value is not readily determinable and is estimated using the net asset value per share or its equivalent as of June 30, 2017 and 2016:

<i>(in thousands of dollars)</i>	Fair Value		Unfunded Commitments	Redemption	Redemption
	<u>2017</u>	<u>2016</u>	At <u>June 30, 2017</u>	<u>Frequency</u>	<u>Notice Period</u>
Commingled Funds:					
Non-U.S. Equity	\$ 627,998	\$ 508,782		Quarterly/ Daily/Monthly	5-90 days
Subtotal	<u>\$ 627,998</u>	<u>\$ 508,782</u>			
Marketable Investment Partnerships:					
Absolute Return	\$ 56,471	\$ 30,811		Quarterly	60 days
Distressed Debt	60,406	53,557		Quarterly/ Semi Annual	60-90 days
Commodities	126,846	94,795		Monthly	30-60 days
Opportunistic	123,387	186,635		Quarterly	30 days
Directional Long/Short	<u>289,472</u>	<u>287,482</u>		Monthly	30 days
Subtotal	<u>\$ 656,582</u>	<u>\$ 653,280</u>			
Non-Marketable Investment Partnerships:					
Private Real Estate	\$ 83,925	\$ 97,089	\$ 39,566		
Venture Capital	323,408	271,898	168,357		
Private Equity	297,386	248,969	262,795		
Natural Resources	130,146	116,307	66,729		
Private Debt	<u>111,563</u>	<u>93,056</u>	<u>166,911</u>		
Subtotal	<u>\$ 946,428</u>	<u>\$ 827,319</u>	<u>\$ 704,358</u>		
Total	<u>\$ 2,231,008</u>	<u>\$ 1,989,381</u>	<u>\$ 704,358</u>		

Commingled Funds include investments that aggregate assets from multiple investors and are managed collectively following a prescribed strategy. Redemptions vary from daily to quarterly with required notification of 90 days or less. The non-U.S. equity strategy is invested in developed and developing countries outside of the United States, and spans the entire equity capitalization spectrum. These collective portfolios preclude the need to obtain securities registration in foreign countries.

Marketable Investment Partnerships include several hedge funds whose underlying positions are traded via public securities markets. Liquidity terms range from quarterly to annually with advance notification for redemption ranging from 30 to 90 days. The fair values of the investments for each fund in this category have been estimated using the net asset value of the LTIP's share holdings in the fund. Five major investment strategies are included within this category. Absolute Return refers to relative value strategies. Directional refers to equity long/short strategies in both U.S. and non-U.S. markets. Opportunistic refers to global multi-strategy. Distressed Debt refers to securities rated below investment grade, along with non-rated debt. Commodities refer to publicly traded commodity instruments primarily including futures and options.

Nonmarketable Investment Partnerships include limited partnership interests in a variety of illiquid investments. The fair values of the investments for each fund in this category have been estimated using the net asset value of the LTIP's ownership interest in partner's capital and cannot be redeemed. Realizations from each fund are received as the underlying investments are liquidated or distributed, typically within 10 years after initial commitment. Unfunded commitments represent remaining commitments of the LTIP's drawdown funds as of June 30, 2017. Five major investment strategies are included within this category. Private Real Estate includes properties primarily located in the U.S. Venture Capital includes non-public startups and enterprises in early stages of growth located globally. Private Equity includes buyouts of previously public companies as well as enterprises that are planning to go public in the near future, including funds focusing on opportunities outside the U.S. Natural Resources largely include companies primarily

involved in oil and natural gas in addition to a variety of other natural resources. Private Debt includes global private credit securities rated below investment grade as well as non-rated debt.

6. CONTRIBUTIONS RECEIVABLE

Contributions receivable are summarized as follows as of June 30:

<i>(in thousands of dollars)</i>	<u>2017</u>	<u>2016</u>
In one year or less	\$ 66,076	\$ 59,567
Between one year and five years	78,025	63,646
More than five years	<u>112,650</u>	<u>113,277</u>
Contributions receivable, gross	256,751	236,490
Less allowance	(4,299)	(4,065)
Less discount	<u>(51,394)</u>	<u>(52,872)</u>
Contributions receivable, net	<u>\$ 201,058</u>	<u>\$ 179,553</u>

Contributions received during the years ended June 30, 2017 and 2016 are discounted at rates ranging from 1.24% to 2.46% and 0.45% to 1.69%, respectively. The discount rates for prior periods ranged from 0.11% to 6.28%.

At June 30, 2017 and 2016, the University has received bequest intentions and certain other conditional promises to give of \$103.3 million and \$97.7 million, respectively. These intentions and conditional promises to give are not included in the consolidated financial statements.

The following table summarizes the change in contributions receivable, net during the year ended June 30, 2017:

	<i>(in thousands of dollars)</i>
Balance at the beginning of year	\$ 179,553
New pledges	97,203
Collections on pledges	(76,942)
Increase in allowance	(234)
Decrease in unamortized discounts	<u>1,478</u>
Balance at the end of year	<u>\$ 201,058</u>

7. LONG-TERM DEBT

The various bond issues, notes payable and capital lease obligations that are included in long-term debt in the statements of financial position consist of the following at June 30:

<i>(in thousands of dollars)</i>	<u>2017</u>	<u>2016</u>
<u>The Pennsylvania State University Bonds</u>		
Series 2017A	\$ 157,080	\$ -
Series 2017B	125,000	-
Series 2016A	122,165	122,165
Series 2016B	229,775	229,775
Series 2015A	63,780	65,210
Series 2015B	108,000	111,580
Series 2010	131,380	135,035
Series 2009B	74,235	74,235
Series 2008B	-	1,050
Series 2007B	51,065	54,415
Refunding Series 2002	-	4,835
<u>Pennsylvania Higher Educational Facilities</u>		
<u>Authority University Revenue Bonds</u>		
<u>(issued for The Pennsylvania State</u>		
<u>University)</u>		
Series 2006	2,655	2,890
Series 2004	2,840	3,125
Series 2002	2,435	2,860
<u>Lycoming County Authority College</u>		
<u>Revenue Bonds (issued for Penn</u>		
<u>College)</u>		
Series 2016	54,190	-
Series 2015	6,390	7,660
Series 2012	24,275	24,685
Series 2011	37,810	37,880
Series 2008	-	55,000
Total bonds payable	1,193,075	932,400
Unamortized bond premiums	142,442	118,332
Unamortized deferred bond costs	(5,952)	(5,267)
<u>Notes payable and capital leases</u>		
Notes payable	26,983	29,000
Capital lease obligations	112,845	96,811
Total notes payable and capital leases	139,828	125,811
Total long-term debt	<u>\$ 1,469,393</u>	<u>\$ 1,171,276</u>

<u>Debt issuance</u>	<u>Interest rate mode</u>	<u>Interest rates</u>	<u>Payment ranges and maturity</u> <i>(in thousands of dollars)</i>
The Pennsylvania State University Bonds			
Series 2017A	Fixed	2.00% - 5.00%	\$2,400 to \$5,965 through September 2037 with \$34,750 and \$44,620 due September 2042 and September 2047, respectively.
Series 2017B	Fixed	1.275% - 3.793%	\$2,660 to \$3,830 through September 2032 with \$21,305 and \$56,595 due September 2037 and September 2047, respectively
Series 2016A	Fixed	4.00% - 5.00%	\$2,585 to \$6,465 through September 2036 with \$37,520 due September 2041
Series 2016B	Fixed	4.00% - 5.00%	\$7,165 to \$22,195 through September 2036
Series 2015A	Fixed	4.00% - 5.00%	\$1,460 to \$3,445 through September 2035 with \$20,000 due September 2040
Series 2015B	Fixed	4.00% - 5.00%	\$3,665 to \$8,435 through September 2035
Series 2010	Fixed	3.375% - 5.00%	\$3,800 to \$6,595 through March 2030 with \$21,805 and \$44,245 due March 2035 and March 2040, respectively
Series 2009B	Variable	1.05%	June 2031
Series 2007B	Fixed	5.25%	\$3,520 to \$5,955 through August 2027

Pennsylvania Higher Educational Facilities Authority ("PHEFA") University Revenue Bonds

Series 2006	Fixed	4.30% - 5.125%*	\$245 to \$280 through September 2020 with \$1,610 due September 2025
Series 2004	Fixed	4.60% - 5.00%*	\$300 to \$325 through September 2019 with \$1,905 due September 2024
Series 2002	Fixed	5.00%*	\$2,435 due March 2022

*Annual interest costs to the University for interest rates greater than 3.00% are subsidized by PHEFA.

Lycoming County Authority College Revenue Bonds

Series 2016	Fixed	2.125% - 5.00%	\$1,545 to \$3,615 through October 2032 with \$19,345 due October 2037
Series 2015	Fixed	2.50% - 4.00%	\$465 to \$1,590 through January 2025
Series 2012	Fixed	2.00% - 5.00%	\$1,020 to \$1,170 through May 2020 with \$2,565, \$6,395 and \$12,045 due May 2022, May 2026 and May 2032, respectively
Series 2011	Fixed	4.00% - 5.24%	\$1,565 to \$1,850 through July 2021 with \$14,170 and \$18,705 due July 2026 and July 2030, respectively

The Series 2017A Bonds are general obligation bonds issued in April 2017 for the purpose of financing various construction and renovation projects. The Series 2017A Bonds are subject to early redemption provisions, at the option of the University, beginning September 2027. The bonds maturing in September 2042 are subject to mandatory sinking fund redemption.

The Series 2017B Bonds are taxable general obligation bonds issued in April 2017 for the purpose of financing the general corporate purposes of the University. The Series 2017B Bonds are subject to early redemption provisions, at the option of the University, in order of their maturity, at the make-whole redemption price. The bonds maturing in September 2037 are subject to mandatory sinking fund redemption.

The Series 2016 Bonds are Lycoming County Authority (the "Authority") College Revenue Bonds issued by Penn College in August 2016 for the purpose of refunding \$55.0 million of the Authority's College Revenue Bond Series 2008. The Series 2008 Bonds were paid in full during the year ended June 30, 2017.

The Series 2009B Bonds are currently paying interest on a variable rate basis at a long term rate for the period June 1, 2017 through May 31, 2018. The University has the option to convert to another variable rate (daily,

weekly, monthly or flexible) or to a fixed rate basis (such rates are generally determined on a market basis) at respective conversion dates. The bonds currently pay interest at 1.05% with adjustment on the respective date to the rate the remarketing agent believes will cause the bonds to have a market value equal to the principal. The 2009B bondholders have the right to tender bonds on the purchase dates while such bonds bear interest at the daily, weekly or monthly rate. The 2009B Bonds were issued subject to the self-liquidity program established by the University on the date of issuance pursuant to which the University will provide liquidity for the 2009B Bonds from its general funds in the event of insufficient remarketing proceeds.

The University has complied with all financial debt covenants for the years ended June 30, 2017 and 2016.

Maturities and sinking fund requirements on bonds payable for each of the next five fiscal years and thereafter are summarized as follows:

<u>Year</u>	<u>Annual Installments</u> <i>(in thousands of dollars)</i>
2018	\$ 28,490
2019	35,825
2020	37,785
2021	39,455
2022	41,315
Thereafter	<u>1,010,205</u>
	<u>\$ 1,193,075</u>

The fair value of the University's bonds payable is estimated based on current rates offered for similar issues with similar security, terms and maturities using available market information as supplied by the various financial institutions who act as trustees or custodians for the University. At June 30, 2017, the carrying value and estimated fair value of the University's bonds payable, including issuance premiums and deferred bond costs, are \$1,329.6 million and \$1,337.5 million, respectively. At June 30, 2016, the carrying value and estimated fair value of the University's bonds payable, including issuance premiums and deferred bond costs, were \$1,045.5 million and \$1,102.6 million, respectively. Certain bond issues have associated issuance premiums; these issuance premiums total \$142.4 million and \$118.3 million at June 30, 2017 and 2016, respectively and are presented within the statement of financial position as long-term debt. These issuance premiums will be amortized over the term of the respective outstanding bonds. Certain bond issues have associated deferred bond costs; these deferred bond costs total \$6.0 million and \$5.3 million at June 30, 2017 and 2016, respectively and are presented within the statement of financial position as a reduction in long-term debt. These deferred bond costs will be amortized over the term of the respective outstanding bonds.

Notes payable and capital leases

The University has three notes payable included within the consolidated statements of financial position at June 30, 2017 with balances of \$8.0 million, \$9.0 million, and \$10.0 million. These notes have payments due annually through June 2024, June 2025, and March 2026 and bear interest at 2.60%, 2.85%, and 2.80%, respectively. The current portion of payments due under these notes totals \$2.4 million at June 30, 2017.

The University has certain building and equipment lease agreements in effect which are considered capital leases. Future minimum lease payments under capital leases together with the present value of the net minimum lease payments as of June 30, 2017 are as follows:

<u>Year</u>	<i>(in thousands of dollars)</i>
2018	\$ 19,521
2019	17,824
2020	14,723
2021	12,361
2022	10,192
Thereafter	<u>139,571</u>
Total minimum lease payments	214,192
Less imputed interest	<u>(101,347)</u>
Capital lease obligation	112,845
Current portion	<u>12,325</u>
Long-term portion	<u>\$ 100,520</u>

8. OPERATING LEASES

The University has certain lease agreements in effect which are considered operating leases. During the year ended June 30, 2017, the University recorded expenses of \$23.6 million for leased equipment and \$30.5 million for leased building space. During the year ended June 30, 2016, the University recorded expenses of \$22.0 million for leased equipment and \$27.7 million for leased building space.

Future minimum lease payments under operating leases as of June 30, 2017 are as follows:

<u>Year</u>	<i>(in thousands of dollars)</i>
2018	\$ 27,306
2019	22,141
2020	17,277
2021	11,884
2022	9,835
Thereafter	<u>34,901</u>
Total minimum lease payments	<u>\$ 123,344</u>

9. RETIREMENT BENEFITS

The University provides retirement benefits for substantially all regular employees, primarily through either contributory defined benefit plans administered by the Commonwealth of Pennsylvania State Employees' Retirement System ("SERS") and The Public School Employees' Retirement System or defined contribution plans administered by the Teachers Insurance and Annuity Association – College Retirement Equity Fund and Fidelity Investments. The University is billed for its share of the estimated actuarial cost of the defined benefit plans (\$104.9 million and \$85.9 million for the years ended June 30, 2017 and 2016, respectively). The University's total cost for retirement benefits, included in expenses, is \$246.3 million and \$219.4 million for the years ended June 30, 2017 and 2016, respectively.

The SERS is the administrator of a cost-sharing, multi-employer retirement system established by the Commonwealth of Pennsylvania to provide pension benefits for employees of state government and certain independent agencies. As provided by statute, the SERS Board of Trustees has exclusive control and management responsibility of the funds and full power to invest the funds. The SERS funding policy provides for periodic member contributions at statutory rates and employer contributions at actuarially determined rates (expressed as a percentage of annual gross pay) that are sufficient to accumulate assets to pay benefits when due. The University's contributions to this plan for the years ended June 30, 2017 and 2016 were \$102.6 million and \$84.1 million, respectively, and represent approximately 5.7% of total contributions to the plan

based on projections for fiscal year 2017. The plan is funded at less than 65% with the funded ratio of the plan at 58.1% as of December 31, 2016.

10. POSTRETIREMENT BENEFITS

The University sponsors a retiree medical plan covering eligible retirees and eligible dependents. This program includes a Preferred Provider Organization (“PPO”) plan (both a traditional and a qualified high deductible option) for retirees and their dependents who are not eligible for Medicare, and a Medicare Advantage PPO plan. In addition, the University provides certain retiree life insurance benefits to the retiree.

Employees who were hired prior to January 1, 2010 are eligible for medical coverage after they retire if either of the following requirements are satisfied:

- they are at least age 60 and have at least 15 years of regular full-time employment and participation in a University-sponsored medical plan immediately preceding the retirement date
- regardless of age, if they have at least 25 years of regular full-time service. The last 10 of those 25 years of University service must be continuous and they must participate in a University-sponsored medical plan during the last 10 years immediately preceding the retirement date.

Effective January 1, 2016, any non-union employee who retires on or before December 31, 2020 will receive a \$5,000 term life insurance policy benefit at no cost to the employee. If a non-union employee retires after December 31, 2020, no life insurance benefit is provided. For union employees, a \$5,000 term life insurance policy is provided at no cost to the employee regardless of their retirement date.

The retiree PPO medical plan and the life insurance coverage are self-funded programs, and all medical claims, death benefits and other expenses are paid from the unrestricted net assets of the University. The Medicare Advantage PPO plan is fully-insured. The retirees pay varying amounts for coverage under the medical plan.

For those employees who were hired after December 31, 2009, the University will contribute funds each month on their behalf to a Retirement Healthcare Savings Plan. This plan is designed to help pay for qualified medical and health-related expenses in retirement, including the purchase of a health insurance policy.

Retirees will be eligible to access their Retirement Healthcare Savings Plan account when they are no longer actively employed at Penn State and have satisfied either of the following requirements:

- completed 25 years of continuous full-time service and are age 60 or older
- completed a minimum of 15 years of continuous full-time service and are age 65 or older.

Included in unrestricted net assets at June 30, 2017 and 2016 are the following amounts that have not yet been recognized in net periodic postretirement cost: unrecognized prior service cost (benefit) of (\$8.5) million and (\$21.0) million and unrecognized actuarial loss of \$707.6 million and \$669.1 million, respectively.

The following sets forth the plan's benefit obligation, plan assets and funded status reconciled with the amounts recognized in the University's consolidated statements of financial position at June 30:

Change in benefit obligation:

(in thousands of dollars)

	<u>2017</u>	<u>2016</u>
Benefit obligation at beginning of year	\$ 2,148,522	\$ 2,091,086
Service cost	50,368	44,524
Interest cost	90,719	88,671
Actuarial loss (gain)	33,287	(199,832)
Benefits paid	(51,860)	(45,490)
Plan amendment	(6,845)	-
Plan assumptions	<u>54,271</u>	<u>169,563</u>
Benefit obligation at end of year	<u>\$ 2,318,462</u>	<u>\$ 2,148,522</u>

Change in plan assets:

(in thousands of dollars)

	<u>2017</u>	<u>2016</u>
Fair value of plan assets at beginning of year	\$ -	\$ -
Employer contributions	51,860	45,490
Benefits paid	<u>(51,860)</u>	<u>(45,490)</u>
Fair value of plan assets at end of year	<u>\$ -</u>	<u>\$ -</u>
Funded status	\$ (2,318,462)	\$ (2,148,522)
Unrecognized prior service cost (benefit)	-	-
Unrecognized net actuarial loss	-	-
Accrued postretirement benefit expense	<u>\$ (2,318,462)</u>	<u>\$ (2,148,522)</u>

Net periodic postretirement cost includes the following components for the years ended June 30:

(in thousands of dollars)

	<u>2017</u>	<u>2016</u>
Service cost	\$ 50,368	\$ 44,524
Interest cost	90,719	88,671
Amortization of prior service cost	(19,392)	(21,849)
Amortization of unrecognized net loss	<u>48,990</u>	<u>33,222</u>
Net periodic postretirement cost	<u>\$ 170,685</u>	<u>\$ 144,568</u>

The assumed healthcare cost trend rate used in measuring the accumulated postretirement benefit obligation was 7.50% and 7.00% for the years ended June 30, 2017 and 2016, respectively, reduced each year to an ultimate level of 5.00%. The postretirement benefit obligation discount rate was 4.21% for the years ended June 30, 2017 and 2016.

If the healthcare cost trend rate assumptions were increased by 1% in each year, the accumulated postretirement benefit obligation would be increased by \$498.4 million and \$461.2 million as of June 30, 2017 and 2016, respectively. The effect of this change on the sum of the service cost and interest cost components of the net periodic postretirement benefit cost would be an increase of \$35.5 million and \$32.4 million as of June 30, 2017 and 2016, respectively. If the healthcare cost trend rate assumptions were decreased by 1% in each year, the accumulated postretirement benefit obligation would be decreased by \$384.9 million and \$360.2 million as of June 30, 2017 and 2016, respectively. The effect of this change on the sum of the service cost and interest cost components of the net periodic postretirement benefit cost would be a decrease of \$26.6 million and \$24.4 million as of June 30, 2017 and 2016, respectively.

Gains and losses in excess of 10% of the accumulated postretirement benefit obligation are amortized over the average future service to assumed retirement of active participants.

Postretirement benefits expected to be paid for the years ended June 30 are as follows:

	<i>(in thousands of dollars)</i>
2018	\$ 56,467
2019	61,610
2020	66,645
2021	77,020
2022	77,599
2023-27	477,063

11. PENN STATE HEALTH

Penn State Health was organized exclusively for the charitable, educational, and scientific purposes as defined and limited by Section 501(c)(3) of the Internal Revenue Code of 1986. The Health System's purpose is to promote, support and further the charitable, educational, and scientific purposes of the University. The Health System is controlled by and affiliated with the University. During 2015, the Health System was organized, with the University as the sole owner, to provide oversight and governance of an expanded health enterprise. The Health System will own, in whole or in part, health care facilities which could include hospitals, surgery centers, home health providers and similar organizations.

Medical Center

In May 2016, the ownership of TMSHMC transferred from the University to the Health System. TMSHMC is a 532-bed, not-for-profit acute care academic medical center located in Hershey, Pennsylvania. The University retains ownership of the buildings and land occupied by TMSHMC, which is co-located with the University's College of Medicine. The clinical facilities of the Medical Center complex are leased to TMSHMC. TMSHMC makes certain payments to support the College of Medicine.

Nittany Health

In January 2016, the ownership of Nittany Health transferred from the University to the Health System. Nittany Health is a corporate investor in healthcare joint ventures, which are supportive of the missions of the Health System. Nittany Health's objectives are consistent with the strategic objective to extend the range of healthcare services offered by and through the Health System over a broader geographic region. Nittany Health was organized in 1995 for the purpose of organizing components of an integrated health care delivery system. Nittany Health recorded non-controlling interest related to the acquisition of additional ownership interest in a joint venture. This non-controlling interest is recorded in net assets within the consolidated statements of financial position with a value at June 30, 2017 and 2016 of \$4,609,000 and \$3,687,000, respectively.

Saint Joseph's Regional Health Network and Medical Group

In July 2015, the Health System acquired SJRHN/SJMG. SJRHN/SJMG is a 144-bed, not-for-profit acute care hospital that provides inpatient, outpatient, and emergency care services to the Berks County Region.

Pursuant to the Health System's purchase accounting for acquisitions policy, the total purchase for SJRHN/SJMG was allocated to both tangible/intangible assets and liabilities based upon their estimated fair values. There was no goodwill associated with this transaction.

The following represents the allocation of the purchase price for the acquisition, as described above (in thousands):

Net accounts receivable	\$ 26,042
Property, plant & equipment	104,446
Intangible assets	1,489
Other assets	21,975
Liabilities assumed	(24,812)
Temporarily restricted net assets	(4,730)
Permanently restricted net assets	<u>(10,862)</u>
Total net assets acquired	<u>\$113,548</u>
Total purchase price	<u>\$113,548</u>

Penn State Community Medical Group

In February 2017, the Health System established the Penn State Community Medical Group, LLC (“PSCMG”). The purpose of PSCMG is to extend the ambulatory clinical footprint of the Health System into broader geographic regions. PSCMG became active on October 1, 2017.

12. CONTINGENCIES AND COMMITMENTS

Contractual Obligations

The University has contractual obligations for the construction of new buildings and for additions to existing buildings in the amount of \$1,313.8 million of which \$951.7 million has been paid or accrued as of June 30, 2017. The contract costs are being financed from available resources and from borrowings.

Letters of Credit

The University has available letters of credit in the amount of \$25.7 million and \$23.9 million as of June 30, 2017 and 2016, respectively. These letters of credit are used primarily to comply with minimum state and federal regulatory laws that govern various University activities. The fair value of these letters of credit approximates contract values based on the nature of the fee arrangements with the issuing banks.

Guarantees

The University has a contract with a third party whereby the third party acts as an agent of the University in connection with procurement of electricity. The University guarantees the payment of the obligations of the third party incurred on behalf of the University to counterparties. No liabilities related to guarantees have been recorded as of June 30, 2017.

Self-Insurance

The University has a coordinated program of commercial and self-insurance for medical malpractice claims at TMSHMC through the use of a qualified trust and a domestic captive insurance company in combination with a self-insured retention layer and is supplementing this program through participation in the Pennsylvania Medical Care Availability and Reduction of Error Fund (“MCARE Fund”), in accordance with Pennsylvania law. An estimate of the present value, discounted at 2% for the years ended June 30, 2017 and 2016, of the medical malpractice claims liability in the amount of \$120.4 million and \$107.4 million is recorded as of June 30, 2017 and 2016, respectively.

The subsidiaries of the Health System are self-insured for all medical malpractice claims asserted on or after July 1, 2003, for all amounts that are below the coverage of excess insurance policies and not included in the insurance coverage of the MCARE Fund. Under the self-insurance program, the Health System is required to maintain a malpractice trust fund in an amount at least equal to the expected loss of known claims. The balance of this trust fund was \$27.4 million and \$21.5 million at June 30, 2017 and 2016, respectively. The Health System intends to fund any claims due during the next year from cash flows from operations.

With approval from the Pennsylvania Department of Labor and Industry ("PA-DLI"), the University elected to self-insure potential obligations applicable to Pennsylvania workers' compensation. Certain claims under the program are contractually administered by a private agency. The University purchased insurance coverage for excess obligations over \$600,000 per incident. An estimate of the self-insured workers' compensation claims liability in the amount of \$7.0 million and \$8.1 million, discounted at 1.89% and 1.00%, respectively, is recorded as of June 30, 2017 and 2016, respectively. The University has established a trust fund, in the amount of \$13.2 million and \$13.3 million at June 30, 2017 and 2016, respectively, as required by PA-DLI, to provide for the payment of claims under this self-insurance program. TMSHMC and SJRHN/SJMG are self-insured for workers' compensation claims and have purchased excess policies through commercial insurers which cover individual claims in excess of \$750,000 and \$575,000 per incident, respectively, for workers' compensation claims.

The University and the Health System are self-insured for certain health care benefits provided to employees. The University, TMSHMC and SJRHN/SJMG have purchased excess policies which cover employee health benefit claims in excess of \$600,000, \$575,000 and \$375,000 per employee per year, respectively. The University and the Health System provide for reported claims and claims incurred but not reported.

Litigation and Contingencies

In November 2011, the University was made aware of certain allegations in a Commonwealth of Pennsylvania Grand Jury presentment. Various legal proceedings and investigations have arisen as a result of such allegations, including criminal proceedings against former officers and employees of the University. Certain claims and civil litigation have been filed against the University with anticipation that other complaints could be filed. The University has accrued \$16.0 million and \$0.2 million for the years ended June 30, 2017 and 2016, respectively, with such amounts included in institutional support within the consolidated statement of activities. Additional claims could be paid in the future but without having knowledge of the number and nature of such claims the University is unable to predict the outcome of these matters or the ultimate legal and financial liability and at this time cannot reasonably estimate the possible loss or range of loss. Accordingly, no amounts have been accrued in the financial statements for these claims.

In addition to the settlement costs, the University has incurred costs for the fiscal years ended June 30, 2017 and 2016 totaling \$4.9 million and \$6.6 million, respectively, for internal investigation, legal, communications and other related costs. These costs are included in institutional support within the consolidated statement of activities.

By jury verdict and court orders in October and November 2016 and March 2017, the University was found liable for compensatory and punitive damages of \$12.3 million and was ordered to pay attorney's fees and costs of \$1.7 million in a lawsuit brought by a former employee alleging whistleblower liability, defamation and misrepresentation. In October 2017, the University agreed to settle with the plaintiff for a lesser amount pursuant to a confidential settlement agreement. The amount per the settlement agreement is accrued as of June 30, 2017 and included in institutional support within the consolidated statement of activities.

The University has submitted claims to insurance carriers related to the claims that have been settled or paid. Some insurance claims have been paid and other insurance claims remain outstanding.

Based on its operation of the Health System (see Note 11), the University, like the rest of the healthcare industry, is subject to numerous laws and regulations of federal, state and local governments. Compliance with these laws and regulations can be subject to government review and interpretation, as well as regulatory actions. Recently, government reviews of healthcare providers for compliance with regulations have increased. Although the University believes it has done its best to comply with these numerous regulations, such government reviews could result in significant repayments of previously billed and collected revenues from patient services.

On July 12, 2013, the University received a preliminary report from the U.S. Department of Education based on the program review of the University's compliance with the Clery Act, a federal law related to campus safety. A final program review determination was made in November 2016, which assessed a fine in the

amount of \$2.4 million. The fine has been paid and the Department of Education's program review is now closed.

Various other legal proceedings have arisen in the normal course of conducting University business. The outcome of such litigation is not expected to have a material effect on the financial position of the University.

13. SUBSEQUENT EVENTS

The University has evaluated subsequent events through October 20, 2017, the date on which the consolidated financial statements were issued. It did not identify any subsequent events to be disclosed other than those below or previously noted.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
10 001		AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,345,455	\$ 544,486,028	Y			\$ 2,321	\$ 1,202,051
10 001		AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,345,455	\$ 544,486,028	N	GEISINGER HEALTH SYSTEM	59-1950-4-002		\$ 47,466
10 025		PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE	RESEARCH AND DEVELOPMENT	\$ 987,085	\$ 544,486,028	Y			\$ 144,101	\$ 825,642
10 025		PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE	RESEARCH AND DEVELOPMENT	\$ 987,085	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	44166167		\$ 162,790
10 170		SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	RESEARCH AND DEVELOPMENT	\$ 305,146	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	44113182		\$ 1
10 170		SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	RESEARCH AND DEVELOPMENT	\$ 305,146	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	44155555		\$ 34,478
10 170		SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	RESEARCH AND DEVELOPMENT	\$ 305,146	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	44155556		\$ 28,934
10 170		SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	RESEARCH AND DEVELOPMENT	\$ 305,146	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	44155557		\$ 29,868
10 170		SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	RESEARCH AND DEVELOPMENT	\$ 305,146	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	ME 44155618		\$ 72,000
10 170		SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	RESEARCH AND DEVELOPMENT	\$ 305,146	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	ME# 44144952		\$ 8,837
10 170		SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	RESEARCH AND DEVELOPMENT	\$ 305,146	\$ 544,486,028	N	PENNSYLVANIA CO-OPERATIVE POTATO GROWERS, INC.	ME#44155561		\$ 28,528
10 200		GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 3,484,032	\$ 544,486,028	Y			\$ 144,330	\$ 3,237,067
10 200		GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 3,484,032	\$ 544,486,028	N	COLORADO STATE UNIVERSITY	2014-48757-226070		\$ 17,869
10 200		GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 3,484,032	\$ 544,486,028	N	KANSAS STATE UNIVERSITY	2015-39575-24367		\$ 17,898
10 200		GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 3,484,032	\$ 544,486,028	N	KANSAS STATE UNIVERSITY	N/A		\$ 181,984
10 200		GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 3,484,032	\$ 544,486,028	N	RUTGERS UNIVERSITY	2015-34383-23812		\$ 17,999
10 200		GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 3,484,032	\$ 544,486,028	N	UNIVERSITY OF MAINE, THE	2014-34141-22266		\$ 1,720
10 200		GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 3,484,032	\$ 544,486,028	N	UNIVERSITY OF MAINE, THE	2015-34141-23964		\$ 9,495
10 210		HIGHER EDUCATION - GRADUATE FELLOWSHIPS GRANT PROGRAM	RESEARCH AND DEVELOPMENT	\$ 84,694	\$ 544,486,028	Y				\$ 84,694
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	RESEARCH AND DEVELOPMENT	\$ 475,899	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	LNE14-338-29001		\$ 2,695
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	RESEARCH AND DEVELOPMENT	\$ 475,899	\$ 544,486,028	N	UNIVERSITY OF NEW HAMPSHIRE	LNE 13-323		\$ (353)
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	RESEARCH AND DEVELOPMENT	\$ 475,899	\$ 544,486,028	N	UNIVERSITY OF VERMONT, THE	2013-38640-20895		\$ 81,911
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	RESEARCH AND DEVELOPMENT	\$ 475,899	\$ 544,486,028	N	UNIVERSITY OF VERMONT, THE	2014-3840-22161		\$ 3,367
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	RESEARCH AND DEVELOPMENT	\$ 475,899	\$ 544,486,028	N	UNIVERSITY OF VERMONT, THE	2014-38640-22161		\$ 74,373
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	RESEARCH AND DEVELOPMENT	\$ 475,899	\$ 544,486,028	N	UNIVERSITY OF VERMONT, THE	2014-38640-2261		\$ 12,826
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	RESEARCH AND DEVELOPMENT	\$ 475,899	\$ 544,486,028	N	UNIVERSITY OF VERMONT, THE	20153864023777		\$ 23,037
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	RESEARCH AND DEVELOPMENT	\$ 475,899	\$ 544,486,028	N	UNIVERSITY OF VERMONT, THE	2015-38640-23777		\$ 62,304
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	RESEARCH AND DEVELOPMENT	\$ 475,899	\$ 544,486,028	N	UNIVERSITY OF VERMONT, THE	2016-38640-25380		\$ 96,300
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	RESEARCH AND DEVELOPMENT	\$ 475,899	\$ 544,486,028	N	UNIVERSITY OF VERMONT, THE	U.S. DEPARTMENT OF AGRICULTURE		\$ 5,003
10 217		HIGHER EDUCATION - INSTITUTION CHALLENGE GRANTS PROGRAM	RESEARCH AND DEVELOPMENT	\$ 43,140	\$ 544,486,028	Y				\$ 43,140
10 230		DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,996	\$ 544,486,028	N	NORTH CAROLINA STATE UNIVERSITY	2014-38502-22598		\$ 3,996
10 250		AGRICULTURAL AND RURAL ECONOMIC RESEARCH, COOPERATIVE AGREEMENTS AND COLLABORATIONS	RESEARCH AND DEVELOPMENT	\$ 138,386	\$ 544,486,028	Y			\$ 53,335	\$ 128,792
10 250		AGRICULTURAL AND RURAL ECONOMIC RESEARCH, COOPERATIVE AGREEMENTS AND COLLABORATIONS	RESEARCH AND DEVELOPMENT	\$ 138,386	\$ 544,486,028	N	MIAMI UNIVERSITY	58-30000-5-0037		\$ 9,594
10 253		CONSUMER DATA AND NUTRITION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 5,608	\$ 544,486,028	Y				\$ 5,608
10 255		RESEARCH INNOVATION AND DEVELOPMENT GRANTS IN ECONOMIC (RIDGE)	RESEARCH AND DEVELOPMENT	\$ 6,938	\$ 544,486,028	N	PURDUE UNIVERSITY	59-5000-5-0011		\$ 6,938
10 290		AGRICULTURAL MARKET AND ECONOMIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 23,268	\$ 544,486,028	Y				\$ 23,268
10 303		INTEGRATED PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 548,588	\$ 544,486,028	Y				\$ 476,403
10 303		INTEGRATED PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 548,588	\$ 544,486,028	N	CORNELL UNIVERSITY	2014-51106-22080		\$ 47,466

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
10 304		HOMELAND SECURITY AGRICULTURAL	RESEARCH AND DEVELOPMENT	\$ 11,610	\$ 544,486,028	N	CORNELL UNIVERSITY	2012-37620-19697	\$	\$ 1,376
10 304		HOMELAND SECURITY AGRICULTURAL	RESEARCH AND DEVELOPMENT	\$ 11,610	\$ 544,486,028	N	CORNELL UNIVERSITY	2016-37620-25852	\$	\$ 10,234
10 307		ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE	RESEARCH AND DEVELOPMENT	\$ 784,606	\$ 544,486,028	Y			\$ 2,068	\$ 784,606
10 309		SPECIALTY CROP RESEARCH INITIATIVE	RESEARCH AND DEVELOPMENT	\$ 1,127,516	\$ 544,486,028	Y			\$	\$ 467,735
10 309		SPECIALTY CROP RESEARCH INITIATIVE	RESEARCH AND DEVELOPMENT	\$ 1,127,516	\$ 544,486,028	N	MICHIGAN STATE UNIVERSITY	2012-51181-20105	\$	\$ 119,227
10 309		SPECIALTY CROP RESEARCH INITIATIVE	RESEARCH AND DEVELOPMENT	\$ 1,127,516	\$ 544,486,028	N	MICHIGAN STATE UNIVERSITY	2014-51181-22380	\$	\$ 125,892
10 309		SPECIALTY CROP RESEARCH INITIATIVE	RESEARCH AND DEVELOPMENT	\$ 1,127,516	\$ 544,486,028	N	MICHIGAN STATE UNIVERSITY	N/A	\$	\$ 110,137
10 309		SPECIALTY CROP RESEARCH INITIATIVE	RESEARCH AND DEVELOPMENT	\$ 1,127,516	\$ 544,486,028	N	NORTH CAROLINA STATE UNIVERSITY	2016-51181-25409	\$	\$ 4,357
10 309		SPECIALTY CROP RESEARCH INITIATIVE	RESEARCH AND DEVELOPMENT	\$ 1,127,516	\$ 544,486,028	N	NORTH CAROLINA STATE UNIVERSITY	N/A	\$	\$ 24,590
10 309		SPECIALTY CROP RESEARCH INITIATIVE	RESEARCH AND DEVELOPMENT	\$ 1,127,516	\$ 544,486,028	N	NORTH CAROLINA STATE UNIVERSITY	USDA NATIONAL INSTITUTE OF FOO	\$	\$ 25,261
10 309		SPECIALTY CROP RESEARCH INITIATIVE	RESEARCH AND DEVELOPMENT	\$ 1,127,516	\$ 544,486,028	N	PURDUE UNIVERSITY	2012-51181-19878	\$	\$ 128,384
10 309		SPECIALTY CROP RESEARCH INITIATIVE	RESEARCH AND DEVELOPMENT	\$ 1,127,516	\$ 544,486,028	N	RUTGERS UNIVERSITY	2016-51181-235399	\$	\$ 39,717
10 309		SPECIALTY CROP RESEARCH INITIATIVE	RESEARCH AND DEVELOPMENT	\$ 1,127,516	\$ 544,486,028	N	UNIVERSITY OF GEORGIA	20145118122383	\$	\$ 57,998
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	Y			\$ 2,672,154	\$ 7,213,365
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	AMERICAN CHESTNUT FOUNDATION, THE	2016-67013-24581	\$	\$ 14,148
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	BRIGHAM YOUNG UNIVERSITY	2011-67009-20366	\$	\$ 2,830
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	KANSAS STATE UNIVERSITY	2013-68004-20378	\$	\$ 99,598
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	MICHIGAN STATE UNIVERSITY	N/A	\$	\$ 203,432
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	MONTANA STATE UNIVERSITY	2015-68006-22850	\$	\$ 54,799
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	PURDUE UNIVERSITY	2016-67019-25014	\$	\$ 29,611
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	SYRACUSE UNIVERSITY	2016-68006-24739	\$	\$ 26,146
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	UNIVERSITY OF ARIZONA, THE	2016-67014-24805	\$	\$ 10,972
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	UNIVERSITY OF MINNESOTA	2011-67003-30343	\$ 2,959	\$ 95,858
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	UNIVERSITY OF MINNESOTA	2016-67015-24457	\$	\$ 26,416
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	UNIVERSITY OF NEW HAMPSHIRE	2017-67013-26594	\$	\$ 1,432
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	UNIVERSITY OF VERMONT, THE	2014-68006-21873	\$	\$ 9,994
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	UNIVERSITY OF VERMONT, THE	2015-68006-22929	\$	\$ 5,023
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	RESEARCH AND DEVELOPMENT	\$ 8,645,724	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN - MADISON	2012-68002-20525	\$	\$ 242,232
10 312		BIOMASS RESEARCH AND DEVELOPMENT INITIATIVE COMPETITIVE GRANTS PROGRAM (BRDI)	RESEARCH AND DEVELOPMENT	\$ 83,670	\$ 544,486,028	N	DARTMOUTH COLLEGE	USDA	\$	\$ 83,670
10 320		SUN GRANT PROGRAM	RESEARCH AND DEVELOPMENT	\$ 24,827	\$ 544,486,028	N	SOUTH DAKOTA STATE UNIVERSITY	2014-38502-22598	\$	\$ 24,827
10 329		CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS PROGRAM	RESEARCH AND DEVELOPMENT	\$ 336,991	\$ 544,486,028	Y			\$ 19,335	\$ 88,848
10 329		CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS PROGRAM	RESEARCH AND DEVELOPMENT	\$ 336,991	\$ 544,486,028	N	CORNELL UNIVERSITY	2015-70006-24274	\$	\$ 9,113
10 329		CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS PROGRAM	RESEARCH AND DEVELOPMENT	\$ 336,991	\$ 544,486,028	N	CORNELL UNIVERSITY	U.S. DEPARTMENT OF AGRICULTURE	\$	\$ 16,047
10 329		CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS PROGRAM	RESEARCH AND DEVELOPMENT	\$ 336,991	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	2014-70006-22484	\$	\$ 4,204
10 329		CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS PROGRAM	RESEARCH AND DEVELOPMENT	\$ 336,991	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	2015-70006-24277	\$	\$ 10,680
10 500		COOPERATIVE EXTENSION SERVICE	RESEARCH AND DEVELOPMENT	\$ 26,469,711	\$ 544,486,028	Y			\$ 275,874	\$ 13,598,772
10 500		COOPERATIVE EXTENSION SERVICE	RESEARCH AND DEVELOPMENT	\$ 26,469,711	\$ 544,486,028	N	KANSAS STATE UNIVERSITY	N/A	\$	\$ 358,674
10 500		COOPERATIVE EXTENSION SERVICE	RESEARCH AND DEVELOPMENT	\$ 26,469,711	\$ 544,486,028	N	MICHIGAN STATE UNIVERSITY	2013-48765-21544	\$	\$ 10,475
10 500		COOPERATIVE EXTENSION SERVICE	RESEARCH AND DEVELOPMENT	\$ 26,469,711	\$ 544,486,028	N	MICHIGAN STATE UNIVERSITY	USDA-NIFA	\$	\$ 27,242
10 500		COOPERATIVE EXTENSION SERVICE	RESEARCH AND DEVELOPMENT	\$ 26,469,711	\$ 544,486,028	N	UNIVERSITY OF MINNESOTA	2013-41520-21529	\$ 258,101	\$ 477,408
10 500		COOPERATIVE EXTENSION SERVICE	RESEARCH AND DEVELOPMENT	\$ 26,469,711	\$ 544,486,028	N	UTAH STATE UNIVERSITY	2016-70022-25565	\$	\$ 10,000
10 574		TEAM NUTRITION GRANTS	RESEARCH AND DEVELOPMENT	\$ 392,391	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300487126	\$	\$ 240,541
10 678		FOREST STEWARDSHIP PROGRAM	RESEARCH AND DEVELOPMENT	\$ 228,462	\$ 544,486,028	Y			\$ 19,011	\$ 32,383
10 680		FOREST HEALTH PROTECTION	RESEARCH AND DEVELOPMENT	\$ 69,978	\$ 544,486,028	Y			\$	\$ 69,978
10 777		NORMAN E. BORLAUG INTERNATIONAL AGRICULTURAL SCIENCE AND TECHNOLOGY FELLOWSHIP	RESEARCH AND DEVELOPMENT	\$ 78,514	\$ 544,486,028	Y			\$	\$ 7,485

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
10	777	NORMAN E. BORLAUG INTERNATIONAL AGRICULTURAL SCIENCE AND TECHNOLOGY FELLOWSHIP	RESEARCH AND DEVELOPMENT	\$ 78,514	\$ 544,486,028	N	MICHIGAN STATE UNIVERSITY	N/A		\$ 48,902
10	777	NORMAN E. BORLAUG INTERNATIONAL AGRICULTURAL SCIENCE AND TECHNOLOGY FELLOWSHIP	RESEARCH AND DEVELOPMENT	\$ 78,514	\$ 544,486,028	N	WORLD COCOA FOUNDATION	58-3148-2-126		\$ 22,127
10	903	SOIL SURVEY	RESEARCH AND DEVELOPMENT	\$ 52,718	\$ 544,486,028	Y				\$ 52,718
10	912	ENVIRONMENTAL QUALITY INCENTIVES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 202,478	\$ 544,486,028	Y			\$ 38,870	\$ 52,203
10	912	ENVIRONMENTAL QUALITY INCENTIVES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 202,478	\$ 544,486,028	N	CORNELL UNIVERSITY	USDA NATURAL RESOURCES CONSERV		\$ 26,045
10	960	TECHNICAL AGRICULTURAL ASSISTANCE	RESEARCH AND DEVELOPMENT	\$ 65,066	\$ 544,486,028	Y				\$ 65,066
10	961	SCIENTIFIC COOPERATION AND RESEARCH	RESEARCH AND DEVELOPMENT	\$ 20,032	\$ 544,486,028	Y			\$ 14,250	\$ 18,262
10	962	COCHRAN FELLOWSHIP PROGRAM-INTERNATIONAL TRAINING-FOREIGN PARTICIPANT	RESEARCH AND DEVELOPMENT	\$ 35,527	\$ 544,486,028	Y				\$ 35,527
10	RD	03-JV-11242328-001/TO15-JV-112	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 12,325
10	RD	11-JV-11111129-121	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 13,041
10	RD	11-JV-11111151-136	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 19,449
10	RD	11-JV-11242302-089	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 29,949
10	RD	14-JV-11242302-144	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 3,795
10	RD	14-JV-11272167-037	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 33,282
10	RD	15-CR11242302-023	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 4,400
10	RD	15-JV-11242309-108	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 9,442
10	RD	16-8130-0370-CA	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 36,777
10	RD	2015-67011-22802	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 8,022
10	RD	2015-68001-23233	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 167,319
10	RD	2016-46100-25845	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 42,766
10	RD	2016-67011-24710	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 40,027
10	RD	2016-70006-25833	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 59,242
10	RD	2017-36100-06042	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 49,983
10	RD	2017-67015-26455	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 8,358
10	RD	58-1902-1-188	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 11,562
10	RD	58-5000-3-0047	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 3,673
10	RD	AG-6395-B-11-0049	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 12,506
10	RD	TA-CR-16-028	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ 202,015
10	RD	USDA ANIMAL HEALTH	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	Y				\$ (6,425)
10	RD	ME 44112431	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	ME 44112431		\$ 14,338
10	RD	64325-9856	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	N	CORNELL UNIVERSITY	N/A		\$ 8,268
10	RD	70395-10155	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	N	CORNELL UNIVERSITY	N/A		\$ 13,887
10	RD	17-020HEH	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	N	DELAWARE STATE UNIVERSITY	N/A		\$ 27,144
10	RD	666573 AMEND 2	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	N	GEISINGER HEALTH SYSTEM	59-1950-4-002		\$ 14,568
10	RD	ME 44144956	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	N	PENNSYLVANIA CO-OPERATIVE POTATO GROWERS, INC.	ME#44144956		\$ 5,486
10	RD	GNE16-138-29994	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	N	UNIVERSITY OF VERMONT, THE	20153864023777		\$ 87
10	RD	PO# 0000000667	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN - EXTENSION	AG-3151-P-15-0228		\$ 25,647
10	RD	115808 G002980	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	N	WASHINGTON STATE UNIVERSITY	2011-68005-30416		\$ 29,904
10	RD	05-683-PSU-2	DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	\$ 901,475	\$ 544,486,028	N	WEST VIRGINIA UNIVERSITY	2010-CR-11062759-030		\$ 638
11	303	ECONOMIC DEVELOPMENT TECHNICAL ASSISTANCE	RESEARCH AND DEVELOPMENT	\$ 13,414	\$ 544,486,028	Y				\$ 13,414
11	417	SEA GRANT SUPPORT	RESEARCH AND DEVELOPMENT	\$ 1,702,647	\$ 544,486,028	Y			\$ 623,713	\$ 1,675,184
11	417	SEA GRANT SUPPORT	RESEARCH AND DEVELOPMENT	\$ 1,702,647	\$ 544,486,028	N	UNIVERSITY OF MINNESOTA	NA140AR4170291		\$ 22,463
11	417	SEA GRANT SUPPORT	RESEARCH AND DEVELOPMENT	\$ 1,702,647	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN - MADISON	NA140AR4170092		\$ 5,000
11	431	CLIMATE AND ATMOSPHERIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 197,079	\$ 544,486,028	Y				\$ 183,637
11	431	CLIMATE AND ATMOSPHERIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 197,079	\$ 544,486,028	N	RAND CORPORATION	NA160AR4310179		\$ 13,442
11	432	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) COOPERATIVE INSTITUTES	RESEARCH AND DEVELOPMENT	\$ 159,724	\$ 544,486,028	N	COLORADO STATE UNIVERSITY	N/A		\$ 159,724
11	459	WEATHER AND AIR QUALITY RESEARCH	RESEARCH AND DEVELOPMENT	\$ 25,480	\$ 544,486,028	Y				\$ 25,480

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
11	462		HYDROLOGIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,002	\$ 544,486,028	N	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	NA16NWS4620043	\$ 9,002
11	467		METEOROLOGIC AND HYDROLOGIC MODERNIZATION DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 9,628	\$ 544,486,028	N	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	NA11NWS4670004	\$ 9,628
11	468		APPLIED METEOROLOGICAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 404,439	\$ 544,486,028	Y			\$ 404,439
11	478		CENTER FOR SPONSORED COASTAL OCEAN RESEARCH COASTAL OCEAN PROGRAM	RESEARCH AND DEVELOPMENT	\$ 27,719	\$ 544,486,028	N	VIRGINIA INSTITUTE OF MARINE SCIENCE	NA16NOS478027	\$ 27,719
11	481		EDUCATIONAL PARTNERSHIP PROGRAM	RESEARCH AND DEVELOPMENT	\$ 7,495	\$ 544,486,028	N	HOWARD UNIVERSITY	NA16SEC4810006	\$ 7,495
11	482		CORAL REEF CONSERVATION PROGRAM	RESEARCH AND DEVELOPMENT	\$ 2,186	\$ 544,486,028	Y			\$ 2,186
11	609		MEASUREMENT AND ENGINEERING RESEARCH AND STANDARDS ARRANGEMENTS FOR INTERDISCIPLINARY RESEARCH INFRASTRUCTURE	RESEARCH AND DEVELOPMENT	\$ 1,294,405	\$ 544,486,028	Y			\$ 7,889
11	619		DEPARTMENT OF COMMERCE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 98,188	\$ 544,486,028	N	YOUNGSTOWN STATE UNIVERSITY	70NANB15H070	\$ 98,188
11	RD	YA1323-16-SE-0112	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 313,649	\$ 544,486,028	Y			\$ 49,536
11	RD	70NANB16H115	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 313,649	\$ 544,486,028	Y			\$ 2,728
11	RD	INTERNAL SUBAWARD FROM ERIE	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 313,649	\$ 544,486,028	Y			\$ 124,896
11	RD	NA14OAR4310190	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 313,649	\$ 544,486,028	Y			\$ 2,999
11	RD	RA-133E-15-SE-1640	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 313,649	\$ 544,486,028	Y			\$ 27,928
11	RD	RA-133E-16-SE-1457	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 313,649	\$ 544,486,028	Y			\$ 41,200
11	RD	8601-SUB03	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 313,649	\$ 544,486,028	N	ERT, INC.	NATIONAL OCEANIC AND ATMOSPHER	\$ 29,351
11	RD	S2017-0119	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 313,649	\$ 544,486,028	N	SYNOPTIC DATA	NATIONAL OCEANIC AND ATMOSPHER	\$ 35,011
12	300		BASIC AND APPLIED SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 10,153,978	\$ 544,486,028	Y	MASSACHUSETTS INSTITUTE OF TECHNOLOGY		\$ 292,547
12	300		BASIC AND APPLIED SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 10,153,978	\$ 544,486,028	N		N/A	\$ 284,528
12	300		BASIC AND APPLIED SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 10,153,978	\$ 544,486,028	N	NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY		\$ 5,572
12	300		BASIC AND APPLIED SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 10,153,978	\$ 544,486,028	N	PRINCETON UNIVERSITY	N00014-12-1-0875	\$ 54,982
12	300		BASIC AND APPLIED SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 10,153,978	\$ 544,486,028	N	PRINCETON UNIVERSITY	N00014-12-1-0962	\$ 15,704
12	300		BASIC AND APPLIED SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 10,153,978	\$ 544,486,028	N	UNIVERSITY OF CONNECTICUT	N00014-10-1-0944	\$ (958)
12	300		BASIC AND APPLIED SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 10,153,978	\$ 544,486,028	N	UNIVERSITY OF MINNESOTA	N00014-12-1-1030	\$ 64,562
12	300		BASIC AND APPLIED SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 10,153,978	\$ 544,486,028	N	UNIVERSITY OF TENNESSEE, KNOXVILLE, THE	N00014-15-1-2269	\$ 5,330
12	330		SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS (STEM) EDUCATION, OUTREACH AND WORKFORCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 110,514	\$ 544,486,028	N	AMERICAN LIGHTWEIGHT MATERIALS MANUFACTURING INNOVATION INSTITUTE	N00014-14-2-0002	\$ 110,514
12	351		SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION	RESEARCH AND DEVELOPMENT	\$ 1,793,454	\$ 544,486,028	Y			\$ 459,894
12	351		SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION	RESEARCH AND DEVELOPMENT	\$ 1,793,454	\$ 544,486,028	N	COLUMBIA UNIVERSITY	HDTRA-11-0027	\$ 21,893
12	360		RESEARCH ON CHEMICAL AND BIOLOGICAL DEFENSE	RESEARCH AND DEVELOPMENT	\$ 400,068	\$ 544,486,028	N	RAYTHEON COMPANY	W911NF-09-2-0053N	\$ 400,068
12	420		MILITARY MEDICAL RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 932,312	\$ 544,486,028	Y			\$ 884,955
12	420		MILITARY MEDICAL RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 932,312	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	W81XWH-09-2-0108	\$ 4,634
12	420		MILITARY MEDICAL RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 932,312	\$ 544,486,028	N	UNIVERSITY OF COLORADO	W81XWH-12-1-0090_NCE	\$ (170)
12	420		MILITARY MEDICAL RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 932,312	\$ 544,486,028	N	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO, THE	W81XWH1320065	\$ 42,893
12	431		BASIC SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,651,689	\$ 544,486,028	Y			\$ 17,195
12	431		BASIC SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,651,689	\$ 544,486,028	N	BOSTON UNIVERSITY	N/A	\$ 104,652
12	431		BASIC SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,651,689	\$ 544,486,028	N	GEORGE MASON UNIVERSITY	N/A	\$ 163,693
12	431		BASIC SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,651,689	\$ 544,486,028	N	HOWARD UNIVERSITY	W911NF-14-1-0421	\$ 46,732

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	431	BASIC SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,651,689	\$ 544,486,028	N	NATIONAL INSTITUTE OF AEROSPACE, THE	U.S. ARMY RESEARCH LABORATORY		\$ 43,093
12	431	BASIC SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,651,689	\$ 544,486,028	N	NORTHEASTERN UNIVERSITY	W911NF-10-2-0098		\$ 7,415
12	431	BASIC SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,651,689	\$ 544,486,028	N	PRINCETON UNIVERSITY	W911NF-12-1-0461		\$ 132,884
12	431	BASIC SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,651,689	\$ 544,486,028	N	RICE UNIVERSITY	W911NF-11-1-0632		\$ 406,075
12	431	BASIC SCIENTIFIC RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,651,689	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, BERKELEY	W911NF-12-1-0541		\$ 70,966
12	432	U.S. MILITARY ACADEMY ATHLETIC PROGRAMS AT WEST POINT	RESEARCH AND DEVELOPMENT	\$ 155,099	\$ 544,486,028	Y				\$ 155,099
12	630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 4,888,078	\$ 544,486,028	Y			\$ 1,697,704	\$ 2,975,195
12	630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 4,888,078	\$ 544,486,028	N	DIGITAL MANUFACTURING AND DESIGN INNOVATION INSTITUTE	U.S. ARMY CONTRACTING COMMAND	\$ 29,056	\$ 79,855
12	630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 4,888,078	\$ 544,486,028	N	GENERAL ELECTRIC	W31P4Q-14-2-0001		\$ 387,766
12	630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 4,888,078	\$ 544,486,028	N	GREEN DYNAMICS INC.	W31P4Q-14-2-0001		\$ 59,371
12	630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 4,888,078	\$ 544,486,028	N	IBM	U.S. ARMY RESEARCH LABORATORY		\$ 116,184
12	630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 4,888,078	\$ 544,486,028	N	IBM	W911NF-16-3-0001		\$ 7,985
12	630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 4,888,078	\$ 544,486,028	N	IOWA STATE UNIVERSITY	W31P4Q-14-2-0001		\$ 269,171
12	630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 4,888,078	\$ 544,486,028	N	ROLLS-ROYCE	W31P4Q-14-2-0001		\$ 491,606
12	630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 4,888,078	\$ 544,486,028	N	STEP TOOLS, INC.	W31P4Q-14-2-0001		\$ 69,466
12	630	BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 4,888,078	\$ 544,486,028	N	UI LABS	W31P4Q-14-2-0001	\$ 39,323	\$ 431,479
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	Y			\$ 1,291,574	\$ 4,276,653
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	EWI	FA8650-12-2-7230		\$ 31,301
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	HONEYWELL INTERNATIONAL INC.	FA8650-12-2-7230		\$ 120,351
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	NATIONAL CENTER FOR DEFENSE MANUFACTURING AND MACHINING	FA8650-12-2-7230	\$ 277,567	\$ 1,027,445
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	NATIONAL CENTER FOR DEFENSE MANUFACTURING AND MACHINING	FA8650-16-2-5700		\$ 115,420
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	NORTH CAROLINA STATE UNIVERSITY	N/A		\$ 236,569
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	RICE UNIVERSITY	FA9550-12-1-0035		\$ 93,991
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	RICE UNIVERSITY	FA9550-14-1-0268		\$ 149,094
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	STANFORD UNIVERSITY	FA9550-14-10317		\$ 212,360
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	TEXAS A&M RESEARCH FOUNDATION	FA9550-15-1-0149		\$ 135,436
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	UNIVERSITY OF DAYTON RESEARCH INSTITUTE	FA8650-10-2-2934		\$ (7,385)
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	UNIVERSITY OF ILLINOIS	FA9550-12-1-0471		\$ 153,466
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	FA95501310126		\$ 37,952
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	YOUNGSTOWN BUSINESS INCUBATOR	FA8650-12-2-7230		\$ 43,755
12	800	AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 6,813,330	\$ 544,486,028	N	YOUNGSTOWN STATE UNIVERSITY	FA8650-16-2-5700		\$ 186,922
12	901	MATHEMATICAL SCIENCES GRANTS	RESEARCH AND DEVELOPMENT	\$ 8,744	\$ 544,486,028	Y				\$ 8,744
12	903	GENCYBER GRANTS PROGRAM	RESEARCH AND DEVELOPMENT	\$ 5,937	\$ 544,486,028	Y				\$ 5,937
12	910	RESEARCH AND TECHNOLOGY DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 862,740	\$ 544,486,028	Y			\$ 96,361	\$ 342,247
12	910	RESEARCH AND TECHNOLOGY DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 862,740	\$ 544,486,028	N	CARNEGIE INSTITUTION FOR SCIENCE	W31P4Q-13-1-0005		\$ 193,980
12	910	RESEARCH AND TECHNOLOGY DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 862,740	\$ 544,486,028	N	CARNEGIE MELLON UNIVERSITY	N66001-13-2-4040		\$ 249,209

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12 910		RESEARCH AND TECHNOLOGY DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 862,740	\$ 544,486,028	N	PRINCETON UNIVERSITY	N66001-11-1-4110		\$ 9,917
12 910		RESEARCH AND TECHNOLOGY DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 862,740	\$ 544,486,028	N	UNIVERSITY OF COLORADO	W31P4Q-13-1-0015		\$ 67,387
12 RD	D14AP00042_AMEND 0001	ADVANCED RESEARCH PROJECTS AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 64,012
12 RD	HR0011-12-C-0075	ADVANCED RESEARCH PROJECTS AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 74,387	\$ 77,771
12 RD	HR0011-15-C-0029	ADVANCED RESEARCH PROJECTS AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 90,460	\$ 1,723,008
12 RD	W911NF-15-1-0084	ADVANCED RESEARCH PROJECTS AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 126,908
12 RD	5050-S01	ADVANCED RESEARCH PROJECTS AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ACTUATED MEDICAL, INC.	DEFENSE ADVANCED RESEARCH PROJ		\$ 5,793
12 RD	E203809-3	ADVANCED RESEARCH PROJECTS AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GEORGE MASON UNIVERSITY	HR0011-16-C-0055		\$ 111,635
12 RD	124818 TASK ORDER #126491	ADVANCED RESEARCH PROJECTS AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	HR0011-12-D-0001		\$ 52
12 RD	136490	ADVANCED RESEARCH PROJECTS AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	HR0011-16-C-0011		\$ 196,587
12 RD	SUBCON-15-C-0095-0001	ADVANCED RESEARCH PROJECTS AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	NEYA SYSTEMS LLC	W31P4Q-08-C-0123		\$ 11,421
12 RD	A003571411	ADVANCED RESEARCH PROJECTS AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	UNIVERSITY OF MINNESOTA	2013-MA-2381		\$ 175,894
12 RD	202092-PENN	ADVANCED RESEARCH PROJECTS AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	UNIVERSITY OF NOTRE DAME	2013-MA-2383		\$ 642,304
12 RD	AFRL-17C0425-PS-DW	ADVANCED RESEARCH PROJECTS AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	VOXTEL, INC.	DEFENSE ADVANCED RESEARCH PROJ		\$ 1,005
12 RD	HHM402-17-P-0037	DEFENSE INTELLIGENCE AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 15,938
12 RD	HDTRA1-13-C-0064	DEFENSE THREAT REDUCTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 417,957
12 RD	HDTRA1-13-C-0076	DEFENSE THREAT REDUCTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (5,518)	\$ (5,518)
12 RD	HDTRA1-16-1-0005	DEFENSE THREAT REDUCTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 133,798	\$ 433,975
12 RD	PO14-1135	DEFENSE THREAT REDUCTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	APPLIED RESEARCH ASSOCIATES, INC.	HDTRA1-14-D-0003 TO 008		\$ (1,538)
12 RD	401055358	DEFENSE THREAT REDUCTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GENERAL ELECTRIC	246819		\$ 293,150
12 RD	23383	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ (145)
12 RD	HQ0147-16-C-6006	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 26,901
12 RD	22941	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	BRIMROSE TECHNOLOGY CORPORATION	HQ0147-15-C-7401		\$ 34,901
12 RD	11-005JNA	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	DELAWARE STATE UNIVERSITY	N/A		\$ 134,896
12 RD	4500063383	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GENERAL ATOMICS	W15P7T-06-D-E402		\$ 61,209
12 RD	CRFR-008 TO CRFR-008-002-01	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	MATRIX RESEARCH INC.	N/A		\$ 66,191
12 RD	18912 PO#29976M	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	MEDICO INDUSTRIES, INC.	N/A		\$ (154)
12 RD	2011-2800-01	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	NORTH CAROLINA STATE UNIVERSITY	N/A		\$ (3,760)
12 RD	72977-1926-46	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	PHYSICAL SCIENCES INC.	HQ0147-16-C-7808		\$ 27,066
12 RD	5003408031	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ROLLS-ROYCE			\$ 15,154
12 RD	PO 2941 CLIN 1	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	SRI INTERNATIONAL	090051SC-SRI-01		\$ 212,290
12 RD	PO 2941 CLIN 2	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	SRI INTERNATIONAL	090051SC-SRI-01		\$ 236,210
12 RD	PO 2942	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	SRI INTERNATIONAL	2014-SC-4-0188		\$ 167,495
12 RD	2102620-03 TO 0060	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	STEVENS INSTITUTE OF TECHNOLOGY	HQ0034-13-D-0004		\$ 38,451
12 RD	C064-PSU SP4701-15-C-0108	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	STRATONICS, INC.	SP4701-15-C-0108		\$ 3,845
12 RD	PO 13292	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ULTRAMET	N00014-16-P-1026		\$ 25,000
12 RD	2015-328 TO3 NRTC-FY15-R-01	DEPARTMENT OF DEFENSE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	VERTICAL LIFT CONSORTIUM	NRTC-FY15-R-01	\$ 84,284	\$ 146,667
12 RD	FA8650-12-C-7225	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 71,138	\$ 119,207
12 RD	FA8650-15-C-5625	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 371,351
12 RD	FA9453-15-C-0064	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 82,295
12 RD	FA9550-12-1-0270	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 55,427
12 RD	FA9550-15-1-0239	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 91,273
12 RD	FA9550-15-1-0306	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 169,892

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	FA9550-15-1-0400	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 3,580
12	RD	FA9550-17-1-0173	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 6,269
12	RD	200036173	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	AEROJET ROCKETDYNE	FA8650-14-2-5214	\$ 1,995
12	RD	20160278	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CFD RESEARCH CORPORATION	FA8650-16-M-6737	\$ 21,239
12	RD	10130	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	DEFENSE ENGINEERING CORPORATION	N/A	\$ 81,014
12	RD	10130 MOD 003	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	DEFENSE ENGINEERING CORPORATION	FA8650-12-D-1376 0004	\$ 7,097
12	RD	DSD-SC-15-009 TO-08ESM786292	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GENERAL DYNAMICS CORPORATION	FA8650-11-D-5702 TO-0009	\$ 52,049
12	RD	162084	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	KYMA TECHNOLOGIES	FA8650-11-D-5800	\$ 13,179
12	RD	P010176330	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	LEIDOS	FA8650-12-D-1377/001	\$ 13,592
12	RD	4102518771	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	LOCKHEED MARTIN CORPORATION	FA8219-15-C-0008	\$ 5,370
12	RD	PSU02WP32	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	METROLASER, INC.	FA8650-15-C-2556	\$ 463
12	RD	22167	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OPTOMECH	FA8650-12-2-7230	\$ 25,872
12	RD	24296 PO 1041.PSU	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	SABRE SYSTEMS, INC.	FA8750-16-C-0216	\$ 34,752
12	RD	SPG-FD-16-C-001 CLIN 01	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	SP GLOBAL INC.	FA8726-16-C-0016	\$ 41,659
12	RD	SPG-FD-16-C-001 CLIN 02	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	SP GLOBAL INC.	FA8726-16-C-0016	\$ 3,121
12	RD	T2016-118	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	TELAZTEC LLC	FA9451-15-D-0019	\$ 30,802
12	RD	SC16-5995-1	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	TOYON RESEARCH CORPORATION	FA8650-16-C-1769	\$ 76,030
12	RD	S-925-03A-001	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	UES, INC.	FA8650-11-D-5400 TO-003	\$ 52,777
12	RD	S-976-000-001	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	UES, INC.	FA8650-14-C-5193	\$ 16,058
12	RD	12824	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ULTRAMET	FA9300-12-C-2003	\$ (464)
12	RD	2604302	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	UNITED TECHNOLOGIES RESEARCH CENTER	FA8650-12-2-7230	\$ 12
12	RD	A001650203	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	UNIVERSITY OF MINNESOTA	FA9550-10-1-0563	\$ 119,583
12	RD	UTA14-001124	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	UNIVERSITY OF TEXAS AT AUSTIN, THE	FA95601410089	\$ 131,146
12	RD	10028801-PENN-APP PO 174167	DEPARTMENT OF THE AIR FORCE, MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	UNIVERSITY OF UTAH, THE	W911NF-12-2-0023	\$ 158,113
12	RD	N00014-05-G-0106 DO 0005	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ (10,310)	\$ (10,310)
12	RD	N00014-05-G-0106 DO 0061	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 7,010	\$ 7,600
12	RD	N00014-10-D-0145 DO 0004	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 1,764,931	\$ 3,450,822
12	RD	N00014-10-D-0145 DO 0005	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 53,067	\$ 95,925
12	RD	N00014-10-D-0145 DO 0007	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 10,432	\$ 77,274
12	RD	N00014-10-D-0145 DO 0008	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 57,120	\$ 77,824
12	RD	N00014-10-D-0145 DO 0009	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 50,316	\$ 50,316

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00014-10-D-0145 DO 0010	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 165,944
12	RD	N00014-10-G-0259 DO 0034	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 718,713
12	RD	N00014-12-C-0124	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (932)
12	RD	N00014-13-1-0220	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 6,326
12	RD	N00014-14-1-0847	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 21,941
12	RD	N00014-14-C-0004	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 88,773	\$ 165,421
12	RD	N00014-14-C-0020	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 90,753
12	RD	N00014-14-C-0157	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 61,631	\$ 278,327
12	RD	N00014-15-1-2364	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 29,926
12	RD	N00014-15-1-2930	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 398,398
12	RD	N00014-15-D-5003 DO 0001	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 490,108
12	RD	N00014-15-D-5003 DO 0002	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 409,768
12	RD	N00014-15-G-0001 DO 0001	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,292,907
12	RD	N00014-15-G-0001 DO 0002	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,647,129
12	RD	N00014-15-G-0001 DO 0003	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 75,094
12	RD	N00014-15-G-0001 DO 0004	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 431,873
12	RD	N00014-15-G-0001 DO 0005	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 864,459
12	RD	N00014-15-G-0001 DO 0006	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 267,123
12	RD	N00014-15-G-0001/16-F-3013	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 192,750
12	RD	N00014-15-G-0001/17-F-2015	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 208,803
12	RD	N00014-16-1-2082	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 100,326
12	RD	N00014-16-1-2186	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 176,335
12	RD	N00014-16-1-2383	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 22,587
12	RD	N00014-16-1-2790	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 8,090
12	RD	N00014-16-1-2816	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 42,401
12	RD	N00014-16-1-2912	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 97,335
12	RD	N00014-16-1-2952	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 52,429
12	RD	N00014-16-F-M010	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 267,926	\$ 422,718
12	RD	N00014-17-1-2088	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 68,776
12	RD	N00014-17-1-2361	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 5,881
12	RD	N00014-17-1-2526	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 162,526

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00014-17-F-M004	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 5,978
12	RD	N00019-16-TG-00439	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 13,280
12	RD	N00024-02-D-6604 DO 0324	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (369)
12	RD	N00024-02-D-6604 DO 0358	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (105)
12	RD	N00024-02-D-6604 DO 0415	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ (7,201)	\$ (7,201)
12	RD	N00024-02-D-6604 DO 0436	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (148)
12	RD	N00024-02-D-6604 DO 0467	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 11,649	\$ 12,232
12	RD	N00024-02-D-6604 DO 0541	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (3,929)
12	RD	N00024-02-D-6604 DO 0560	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ (11,265)	\$ (11,265)
12	RD	N00024-02-D-6604 DO 0643	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 7,173	\$ 7,531
12	RD	N00024-02-D-6604 DO 0654	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (186)
12	RD	N00024-02-D-6604 DO 0655	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 227
12	RD	N00024-02-D-6604 DO 0660	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (325)
12	RD	N00024-02-D-6604 DO 0661	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (36)
12	RD	N00024-02-D-6604 DO 0712	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (3,251)
12	RD	N00024-02-D-6604 DO 0736	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 47,652
12	RD	N00024-02-D-6604 DO 0739	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 6,252	\$ 6,565
12	RD	N00024-12-D-6402 DO 0018	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (2,646)
12	RD	N00024-12-D-6402 DO 0062	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 1,174	\$ 1,233
12	RD	N00024-12-D-6404 DO 0002	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (2,209)
12	RD	N00024-12-D-6404 DO 0003	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,354
12	RD	N00024-12-D-6404 DO 0005	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 3,925	\$ 120,392
12	RD	N00024-12-D-6404 DO 0016	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 221,431	\$ 7,301,473
12	RD	N00024-12-D-6404 DO 0020	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 5,000	\$ 5,250
12	RD	N00024-12-D-6404 DO 0028	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 3,168	\$ 3,168
12	RD	N00024-12-D-6404 DO 0044	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 319
12	RD	N00024-12-D-6404 DO 0066	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 264,859
12	RD	N00024-12-D-6404 DO 0069	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 62,784	\$ 2,665,447
12	RD	N00024-12-D-6404 DO 0070	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 159,437
12	RD	N00024-12-D-6404 DO 0075	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 275
12	RD	N00024-12-D-6404 DO 0078	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 577

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00024-12-D-6404 DO 0082	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 89,327
12	RD	N00024-12-D-6404 DO 0094	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 125,179
12	RD	N00024-12-D-6404 DO 0095	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 72,381	\$ 761,230
12	RD	N00024-12-D-6404 DO 0096	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 334
12	RD	N00024-12-D-6404 DO 0108	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 281,794
12	RD	N00024-12-D-6404 DO 0109	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,264
12	RD	N00024-12-D-6404 DO 0116	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,697
12	RD	N00024-12-D-6404 DO 0119	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (6,361)
12	RD	N00024-12-D-6404 DO 0120	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 22,405
12	RD	N00024-12-D-6404 DO 0121	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 359,622
12	RD	N00024-12-D-6404 DO 0130	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (2,850)
12	RD	N00024-12-D-6404 DO 0131	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 908
12	RD	N00024-12-D-6404 DO 0135	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 258
12	RD	N00024-12-D-6404 DO 0136	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (50)
12	RD	N00024-12-D-6404 DO 0140	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 36,682
12	RD	N00024-12-D-6404 DO 0141	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (4,706)
12	RD	N00024-12-D-6404 DO 0143	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 37,207
12	RD	N00024-12-D-6404 DO 0145	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 883
12	RD	N00024-12-D-6404 DO 0146	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 109
12	RD	N00024-12-D-6404 DO 0153	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 717,018
12	RD	N00024-12-D-6404 DO 0154	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 310,589
12	RD	N00024-12-D-6404 DO 0158	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 159,657
12	RD	N00024-12-D-6404 DO 0159	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (2,334)
12	RD	N00024-12-D-6404 DO 0160	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 2,262,369
12	RD	N00024-12-D-6404 DO 0162	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 85,466
12	RD	N00024-12-D-6404 DO 0165	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 50,331
12	RD	N00024-12-D-6404 DO 0166	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (58,463)
12	RD	N00024-12-D-6404 DO 0167	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 605,770
12	RD	N00024-12-D-6404 DO 0171	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 120
12	RD	N00024-12-D-6404 DO 0173	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 153,725	\$ 453,031
12	RD	N00024-12-D-6404 DO 0180	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 40

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00024-12-D-6404 DO 0181	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 67,371
12	RD	N00024-12-D-6404 DO 0184	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 2,030
12	RD	N00024-12-D-6404 DO 0185	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 150,189
12	RD	N00024-12-D-6404 DO 0187	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,092
12	RD	N00024-12-D-6404 DO 0190	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 309,893
12	RD	N00024-12-D-6404 DO 0191	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 110,499	\$ 570,561
12	RD	N00024-12-D-6404 DO 0193	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (770)
12	RD	N00024-12-D-6404 DO 0194	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (1,062)
12	RD	N00024-12-D-6404 DO 0195	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 269,253
12	RD	N00024-12-D-6404 DO 0196	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 362,615
12	RD	N00024-12-D-6404 DO 0198	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 51,918	\$ 1,888,232
12	RD	N00024-12-D-6404 DO 0201	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 2,828
12	RD	N00024-12-D-6404 DO 0207	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 119,058
12	RD	N00024-12-D-6404 DO 0208	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (10,126)
12	RD	N00024-12-D-6404 DO 0209	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 476
12	RD	N00024-12-D-6404 DO 0210	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 28,897
12	RD	N00024-12-D-6404 DO 0211	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 6,268
12	RD	N00024-12-D-6404 DO 0212	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (118)
12	RD	N00024-12-D-6404 DO 0217	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 665
12	RD	N00024-12-D-6404 DO 0218	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 6
12	RD	N00024-12-D-6404 DO 0219	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 160,154
12	RD	N00024-12-D-6404 DO 0221	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (319)
12	RD	N00024-12-D-6404 DO 0224	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 80,104
12	RD	N00024-12-D-6404 DO 0225	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 232,644
12	RD	N00024-12-D-6404 DO 0227	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 190,624
12	RD	N00024-12-D-6404 DO 0228	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (9,213)
12	RD	N00024-12-D-6404 DO 0229	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 91,748
12	RD	N00024-12-D-6404 DO 0235	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (3,345)
12	RD	N00024-12-D-6404 DO 0237	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (5,308)
12	RD	N00024-12-D-6404 DO 0242	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (19)
12	RD	N00024-12-D-6404 DO 0244	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 13,259

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00024-12-D-6404 DO 0246	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 35,438	\$ 35,438
12	RD	N00024-12-D-6404 DO 0247	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (123)
12	RD	N00024-12-D-6404 DO 0251	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (2,100)
12	RD	N00024-12-D-6404 DO 0254	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (1,803)
12	RD	N00024-12-D-6404 DO 0255	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 500	\$ 4,744
12	RD	N00024-12-D-6404 DO 0258	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (3,430)
12	RD	N00024-12-D-6404 DO 0260	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 2,948,056
12	RD	N00024-12-D-6404 DO 0265	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 48
12	RD	N00024-12-D-6404 DO 0266	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (787)
12	RD	N00024-12-D-6404 DO 0267	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 4,045
12	RD	N00024-12-D-6404 DO 0270	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 17,761
12	RD	N00024-12-D-6404 DO 0274	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 472,826
12	RD	N00024-12-D-6404 DO 0275	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 48,752
12	RD	N00024-12-D-6404 DO 0276	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 92,780
12	RD	N00024-12-D-6404 DO 0278	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 10,503,736
12	RD	N00024-12-D-6404 DO 0279	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 1,000	\$ 80,443
12	RD	N00024-12-D-6404 DO 0280	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 179,048
12	RD	N00024-12-D-6404 DO 0283	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (525)
12	RD	N00024-12-D-6404 DO 0287	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 145,964
12	RD	N00024-12-D-6404 DO 0290	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (660)
12	RD	N00024-12-D-6404 DO 0292	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (1,921)
12	RD	N00024-12-D-6404 DO 0293	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 480,676
12	RD	N00024-12-D-6404 DO 0295	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 4
12	RD	N00024-12-D-6404 DO 0296	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 510,959
12	RD	N00024-12-D-6404 DO 0297	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 190
12	RD	N00024-12-D-6404 DO 0298	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 118,065
12	RD	N00024-12-D-6404 DO 0299	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 48,919
12	RD	N00024-12-D-6404 DO 0300	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (396)
12	RD	N00024-12-D-6404 DO 0302	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 264,881
12	RD	N00024-12-D-6404 DO 0303	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (296)
12	RD	N00024-12-D-6404 DO 0304	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (166)

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00024-12-D-6404 DO 0306	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 271,652
12	RD	N00024-12-D-6404 DO 0307	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 58,675
12	RD	N00024-12-D-6404 DO 0308	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (62)
12	RD	N00024-12-D-6404 DO 0309	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,003,710
12	RD	N00024-12-D-6404 DO 0310	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 421,222
12	RD	N00024-12-D-6404 DO 0312	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 49,985
12	RD	N00024-12-D-6404 DO 0313	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 478,417
12	RD	N00024-12-D-6404 DO 0314	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 285,241
12	RD	N00024-12-D-6404 DO 0316	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (2,247)
12	RD	N00024-12-D-6404 DO 0317	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 171,722
12	RD	N00024-12-D-6404 DO 0319	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 338,370
12	RD	N00024-12-D-6404 DO 0320	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (182)
12	RD	N00024-12-D-6404 DO 0321	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 171,968
12	RD	N00024-12-D-6404 DO 0322	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 419,589
12	RD	N00024-12-D-6404 DO 0323	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 93,928
12	RD	N00024-12-D-6404 DO 0325	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 10,958
12	RD	N00024-12-D-6404 DO 0326	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 18,358
12	RD	N00024-12-D-6404 DO 0329	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (6,680)
12	RD	N00024-12-D-6404 DO 0330	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (2,383)
12	RD	N00024-12-D-6404 DO 0331	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,222,177
12	RD	N00024-12-D-6404 DO 0333	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 3
12	RD	N00024-12-D-6404 DO 0334	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 322,930
12	RD	N00024-12-D-6404 DO 0335	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 287,164
12	RD	N00024-12-D-6404 DO 0336	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,405,358
12	RD	N00024-12-D-6404 DO 0337	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 147,845
12	RD	N00024-12-D-6404 DO 0338	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 136,206
12	RD	N00024-12-D-6404 DO 0339	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 668,482
12	RD	N00024-12-D-6404 DO 0340	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (5,393)
12	RD	N00024-12-D-6404 DO 0341	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 2,089
12	RD	N00024-12-D-6404 DO 0342	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 270,082
12	RD	N00024-12-D-6404 DO 0343	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 4,095

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00024-12-D-6404 DO 0344	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 624,328
12	RD	N00024-12-D-6404 DO 0345	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 290,074
12	RD	N00024-12-D-6404 DO 0346	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 987,762
12	RD	N00024-12-D-6404 DO 0348	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 714,854
12	RD	N00024-12-D-6404 DO 0349	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 48,742	\$ 295,870
12	RD	N00024-12-D-6404 DO 0350	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 8,090
12	RD	N00024-12-D-6404 DO 0351	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 29,784
12	RD	N00024-12-D-6404 DO 0352	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 88,794
12	RD	N00024-12-D-6404 DO 0353	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (4,165)
12	RD	N00024-12-D-6404 DO 0354	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 638,707
12	RD	N00024-12-D-6404 DO 0355	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 58,961
12	RD	N00024-12-D-6404 DO 0356	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 37,498
12	RD	N00024-12-D-6404 DO 0357	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 10,024
12	RD	N00024-12-D-6404 DO 0358	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 32,786
12	RD	N00024-12-D-6404 DO 0359	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 31,382
12	RD	N00024-12-D-6404 DO 0360	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 32,432
12	RD	N00024-12-D-6404 DO 0361	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 223,238
12	RD	N00024-12-D-6404 DO 0362	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,154,857
12	RD	N00024-12-D-6404 DO 0363	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 359,864
12	RD	N00024-12-D-6404 DO 0364	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 512,678
12	RD	N00024-12-D-6404 DO 0365	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (73)
12	RD	N00024-12-D-6404 DO 0367	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 277,823
12	RD	N00024-12-D-6404 DO 0368	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 50,114
12	RD	N00024-12-D-6404 DO 0369	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 206,742
12	RD	N00024-12-D-6404 DO 0370	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 2,306,765
12	RD	N00024-12-D-6404 DO 0371	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,224,264
12	RD	N00024-12-D-6404 DO 0372	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 176,294
12	RD	N00024-12-D-6404 DO 0373	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 140,767
12	RD	N00024-12-D-6404 DO 0374	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 197,506
12	RD	N00024-12-D-6404 DO 0375	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 56,904
12	RD	N00024-12-D-6404 DO 0376	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 198,811

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00024-12-D-6404 DO 0377	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 102,509
12	RD	N00024-12-D-6404 DO 0378	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 2,503
12	RD	N00024-12-D-6404 DO 0379	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 200,968
12	RD	N00024-12-D-6404 DO 0380	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 362,686
12	RD	N00024-12-D-6404 DO 0382	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 656,797
12	RD	N00024-12-D-6404 DO 0383	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 95
12	RD	N00024-12-D-6404 DO 0384	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 128,385
12	RD	N00024-12-D-6404 DO 0386	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 48,175
12	RD	N00024-12-D-6404 DO 0387	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 90,609
12	RD	N00024-12-D-6404 DO 0388	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 253,519
12	RD	N00024-12-D-6404 DO 0389	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 679,401
12	RD	N00024-12-D-6404 DO 0390	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 193
12	RD	N00024-12-D-6404 DO 0392	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 895,398
12	RD	N00024-12-D-6404 DO 0393	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 20,992
12	RD	N00024-12-D-6404 DO 0394	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 744,810
12	RD	N00024-12-D-6404 DO 0395	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (12)
12	RD	N00024-12-D-6404 DO 0396	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 15,295
12	RD	N00024-12-D-6404 DO 0397	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 288,457
12	RD	N00024-12-D-6404 DO 0398	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 127,294
12	RD	N00024-12-D-6404 DO 0399	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 522,526
12	RD	N00024-12-D-6404 DO 0401	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 202,705
12	RD	N00024-12-D-6404 DO 0402	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 181,204
12	RD	N00024-12-D-6404 DO 0403	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 197
12	RD	N00024-12-D-6404 DO 0404	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 92,773
12	RD	N00024-12-D-6404 DO 0405	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 202,311
12	RD	N00024-12-D-6404 DO 0406	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 46,073
12	RD	N00024-12-D-6404 DO 0407	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 191,663	\$ 1,653,728
12	RD	N00024-12-D-6404 DO 0408	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 7,253
12	RD	N00024-12-D-6404 DO 0409	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 5,659
12	RD	N00024-12-D-6404 DO 0411	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 23,868
12	RD	N00024-12-D-6404 DO 0412	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 950,137

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00024-12-D-6404 DO 0413	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 497,524
12	RD	N00024-12-D-6404 DO 0414	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 49,622
12	RD	N00024-12-D-6404 DO 0415	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 119,822
12	RD	N00024-12-D-6404 DO 0416	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 22,620
12	RD	N00024-12-D-6404 DO 0417	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 827,972
12	RD	N00024-12-D-6404 DO 0418	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,162,833
12	RD	N00024-12-D-6404 DO 0419	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 99,631
12	RD	N00024-12-D-6404 DO 0420	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 128
12	RD	N00024-12-D-6404 DO 0421	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 475,834
12	RD	N00024-12-D-6404 DO 0422	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 516,444
12	RD	N00024-12-D-6404 DO 0423	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 283,322	\$ 3,329,712
12	RD	N00024-12-D-6404 DO 0424	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 69,559
12	RD	N00024-12-D-6404 DO 0425	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 116,330	\$ 2,983,899
12	RD	N00024-12-D-6404 DO 0426	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 27,764	\$ 3,355,751
12	RD	N00024-12-D-6404 DO 0427	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 983,007
12	RD	N00024-12-D-6404 DO 0428	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,048,861
12	RD	N00024-12-D-6404 DO 0429	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 901,085
12	RD	N00024-12-D-6404 DO 0431	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 898,035
12	RD	N00024-12-D-6404 DO 0432	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 218,411
12	RD	N00024-12-D-6404 DO 0433	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 120,949
12	RD	N00024-12-D-6404 DO 0434	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 909,660
12	RD	N00024-12-D-6404 DO 0435	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 183,591
12	RD	N00024-12-D-6404 DO 0436	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 290,393
12	RD	N00024-12-D-6404 DO 0437	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 461,346
12	RD	N00024-12-D-6404 DO 0438	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 282,448
12	RD	N00024-12-D-6404 DO 0439	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 276,333
12	RD	N00024-12-D-6404 DO 0440	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 454,880
12	RD	N00024-12-D-6404 DO 0442	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 436,379
12	RD	N00024-12-D-6404 DO 0443	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (3,854)
12	RD	N00024-12-D-6404 DO 0444	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 206,226
12	RD	N00024-12-D-6404 DO 0445	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 562,447

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00024-12-D-6404 DO 0446	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,504,552
12	RD	N00024-12-D-6404 DO 0447	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 48,103
12	RD	N00024-12-D-6404 DO 0448	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 68,746	\$ 2,152,013
12	RD	N00024-12-D-6404 DO 0449	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 198,249
12	RD	N00024-12-D-6404 DO 0450	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 95,852
12	RD	N00024-12-D-6404 DO 0451	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 690,486
12	RD	N00024-12-D-6404 DO 0452	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 118,443
12	RD	N00024-12-D-6404 DO 0453	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 169,657
12	RD	N00024-12-D-6404 DO 0454	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 103,347
12	RD	N00024-12-D-6404 DO 0455	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 278,089
12	RD	N00024-12-D-6404 DO 0456	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 364,305
12	RD	N00024-12-D-6404 DO 0457	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 94,167
12	RD	N00024-12-D-6404 DO 0458	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,095,518
12	RD	N00024-12-D-6404 DO 0459	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 196,074
12	RD	N00024-12-D-6404 DO 0460	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 8,211,184
12	RD	N00024-12-D-6404 DO 0461	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 193,055
12	RD	N00024-12-D-6404 DO 0462	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 159,640
12	RD	N00024-12-D-6404 DO 0463	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,750
12	RD	N00024-12-D-6404 DO 0464	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 226,662
12	RD	N00024-12-D-6404 DO 0465	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 824,541
12	RD	N00024-12-D-6404 DO 0466	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 60,000
12	RD	N00024-12-D-6404 DO 0467	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 6,308	\$ 45,505
12	RD	N00024-12-D-6404 DO 0468	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 3,563
12	RD	N00024-12-D-6404 DO 0469	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 3,618,439
12	RD	N00024-12-D-6404 DO 0470	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 195,540
12	RD	N00024-12-D-6404 DO 0471	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 13,200	\$ 822,043
12	RD	N00024-12-D-6404 DO 0472	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 693,586
12	RD	N00024-12-D-6404 DO 0473	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 467,971
12	RD	N00024-12-D-6404 DO 0474	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 22,950
12	RD	N00024-12-D-6404 DO 0475	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 186,946
12	RD	N00024-12-D-6404 DO 0476	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 70,112

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00024-12-D-6404 DO 0477	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 62,120
12	RD	N00024-12-D-6404 DO 0478	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 249,705
12	RD	N00024-12-D-6404 DO 0479	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 27,933
12	RD	N00024-12-D-6404 DO 0480	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 51,987
12	RD	N00024-12-D-6404 DO 0481	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 137,423
12	RD	N00024-12-D-6404 DO 0482	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 235,724
12	RD	N00024-12-D-6404 DO 0483	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 148,873
12	RD	N00024-12-D-6404 DO 0484	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 202,237
12	RD	N00024-12-D-6404 DO 0485	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 33,058
12	RD	N00024-12-D-6404 DO 0486	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,035,830
12	RD	N00024-12-D-6404 DO 0487	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 463,810
12	RD	N00024-12-D-6404 DO 0488	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 181,868
12	RD	N00024-12-D-6404 DO 0491	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 99,282
12	RD	N00024-12-D-6404 DO 0492	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,666,196
12	RD	N00024-12-D-6404 DO 0493	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 275,548
12	RD	N00024-12-D-6404 DO 0494	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 81,815
12	RD	N00024-12-D-6404 DO 0495	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,885,064
12	RD	N00024-12-D-6404 DO 0496	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 8,557
12	RD	N00024-12-D-6404 DO 0497	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 21,641
12	RD	N00024-12-D-6404 DO 0498	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 716,794
12	RD	N00024-12-D-6404 DO 0499	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 619,927
12	RD	N00024-12-D-6404 DO 0500	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 129,923
12	RD	N00024-12-D-6404 DO 0502	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 47,064	\$ 135,130
12	RD	N00024-12-D-6404 DO 0503	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 280,054	\$ 957,690
12	RD	N00024-12-D-6404 DO 0504	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 343,525
12	RD	N00024-12-D-6404 DO 0505	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 168,201
12	RD	N00024-12-D-6404 DO 0506	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 2,499,401
12	RD	N00024-12-D-6404 DO 0507	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 636,585
12	RD	N00024-12-D-6404 DO 0508	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 361,365
12	RD	N00024-12-D-6404 DO 0509	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 441,207
12	RD	N00024-12-D-6404 DO 0510	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 245,853

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00024-12-D-6404 DO 0511	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 809,738
12	RD	N00024-12-D-6404 DO 0512	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 116,081
12	RD	N00024-12-D-6404 DO 0513	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 318,805
12	RD	N00024-12-D-6404 DO 0514	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 208,946
12	RD	N00024-12-D-6404 DO 0515	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 146,632	\$ 2,023,297
12	RD	N00024-12-D-6404 DO 0516	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 2,440,123
12	RD	N00024-12-D-6404 DO 0518	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 473,677
12	RD	N00024-12-D-6404 DO 0519	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 82,385
12	RD	N00024-12-D-6404 DO 0520	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 127,995	\$ 243,519
12	RD	N00024-12-D-6404 DO 0521	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 86,317
12	RD	N00024-12-D-6404 DO 0522	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 468,250
12	RD	N00024-12-D-6404 DO 0523	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 167,025
12	RD	N00024-12-D-6404 DO 0524	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 12,561
12	RD	N00024-12-D-6404 DO 0526	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 104,951
12	RD	N00024-12-D-6404 DO 0527	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 26,919	\$ 134,779
12	RD	N00024-12-D-6404 DO 0529	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 734,726
12	RD	N00024-12-D-6404 DO 0530	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 19,628
12	RD	N00024-12-D-6404 DO 0531	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 620,305
12	RD	N00024-12-D-6404 DO 0532	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 2,030,078
12	RD	N00024-12-D-6404 DO 0533	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 184,549
12	RD	N00024-12-D-6404 DO 0534	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y		\$ 9,000	\$ 280,017
12	RD	N00024-12-D-6404 DO 0535	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 131,709
12	RD	N00024-12-D-6404 DO 0537	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 158,459
12	RD	N00024-12-D-6404 DO 0538	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 47,746
12	RD	N00024-12-D-6404 DO 0541	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 466,686
12	RD	N00024-12-D-6404 DO 0542	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,115,268
12	RD	N00024-12-D-6404 DO 0543	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 194,670
12	RD	N00024-12-D-6404 DO 0544	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 626,422
12	RD	N00024-12-D-6404 DO 0545	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 426,916
12	RD	N00024-12-D-6404 DO 0547	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 43,354
12	RD	N00024-12-D-6404 DO 0548	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 143,092

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00024-12-D-6404 DO 0549	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 28,982
12	RD	N00024-12-D-6404 DO 0550	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 37,509
12	RD	N00024-12-D-6404 DO 0551	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 62,219
12	RD	N00024-12-D-6404 DO 0552	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 46,214
12	RD	N00024-12-D-6404 DO 0553	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 7,386,350
12	RD	N00024-12-D-6404 DO 0555	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 46,785
12	RD	N00024-12-D-6404 DO 0556	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 373,746
12	RD	N00024-12-D-6404 DO 0557	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 366,475
12	RD	N00024-12-D-6404 DO 0558	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 17,199
12	RD	N00024-12-D-6404 DO 0559	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 224,719
12	RD	N00024-12-D-6404 DO 0560	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 29,078
12	RD	N00024-12-D-6404 DO 0561	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 291,128
12	RD	N00024-12-D-6404 DO 0562	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 111,623
12	RD	N00024-12-D-6404 DO 0564	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 10,733
12	RD	N00024-12-D-6404 DO 0567	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 14,604
12	RD	N00024-12-D-6404 DO 0568	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 104,998
12	RD	N00024-12-D-6404 DO 0569	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 27,477
12	RD	N00024-12-D-6404 DO 0571	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 49,378
12	RD	N00024-12-D-6404 DO 0572	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 45,537
12	RD	N00024-12-D-6404 DO 0576	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 276,621
12	RD	N00024-12-D-6404 DO 0577	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 77,403
12	RD	N00024-12-D-6404 DO 0578	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 147,034
12	RD	N00024-12-D-6404 DO 0579	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 16,942
12	RD	N00024-12-D-6404 DO 0580	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 375,860
12	RD	N00024-12-D-6404 DO 0581	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 17,180
12	RD	N00024-12-D-6404 DO 0582	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 143,595
12	RD	N00024-12-D-6404 DO 0583	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 23,327
12	RD	N00024-12-D-6404 DO 0585	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 37,626
12	RD	N00024-12-D-6404 DO 0590	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 3,195
12	RD	N00024-12-D-6404 DO 0593	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 64,540
12	RD	N00024-12-D-6404 DO 17F8300	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 83,764

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	N00024-12-D-6404 DO 17F8302	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 36,875
12	RD	N00024-12-D-6404 DO 17F8306	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 121,748
12	RD	N00024-12-D-6404 DO 17F8311	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 2,481
12	RD	N00024-12-D-6404 DO 17F8314	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 12,752
12	RD	N00024-12-D-6404 DO 17F8316	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,533
12	RD	N00024-12-D-6404 DO 17F8318	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 14,077
12	RD	N00024-12-D-6404 DO 17F8326	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 78,625
12	RD	N00173-16-P-0349	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 14,458
12	RD	N00173-16-P-3079	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 24,713
12	RD	N00173-17-1-G004	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 53,985
12	RD	N0024-12-D-6404 DO 17F8303	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 16,705
12	RD	N0024-12-D-6404 DO 17F8310	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 12,638
12	RD	N65236-10-D-6836 DO 0005	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (1,346)
12	RD	N65236-10-D-6836 DO 0006	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (1)
12	RD	N65236-10-D-6836 DO 0007	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 200,369
12	RD	N65236-10-D-6836 DO 0008	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (1,879)
12	RD	N66596-15-IPA-0003	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 10,282
12	RD	3118-SC001	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADAPTIVE METHODS	N00024-16-C-4032	\$ 116,195
12	RD	26268	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED COOLING TECHNOLOGIES, INC.	N68335-16-C-0173	\$ 24,000
12	RD	2012-532 DO-005	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	N00014-11-D-0504 DO-004	\$ 906
12	RD	2012-532 TO 0004	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	N00014-11-D-0504, DO 04	\$ 4,081
12	RD	2012-532 TO-0002	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	N00014-11-D-0504	\$ 17,003
12	RD	2012-532 TO-006	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	N00014-11-D-0504	\$ 53,443
12	RD	2013-454	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	N/A	\$ 60,639
12	RD	2015-460 TO-01	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	N00014-14-D-0377 DO-0002	\$ 20,354
12	RD	2017-422	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	N/A	\$ 20,002
12	RD	2017-430	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	NAVSEA	\$ 25,240
12	RD	SC 2015-437	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	N/A	\$ 904
12	RD	N00014-15-P-1170/1 MOD 1	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ANALYSIS, DESIGN & DIAGNOSTICS, INC.	N00014-15-P-1170	\$ 22,819
12	RD	N68335-17-C-0037/1	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ANALYSIS, DESIGN & DIAGNOSTICS, INC.	N68335-17-C-0037	\$ 11,737
12	RD	2016-1117-N-PSU	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	APPLIED OPTIMIZATION, INC.	N68335-17-C-008	\$ 30,331

See notes to schedule of expenditures of federal awards.

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CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD 22997	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	APPLIED PHYSICAL SCIENCES CORPORATION	N66001-14-C-4031		\$ 3,484
12	RD APS-14-05	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	APPLIED PHYSICAL SCIENCES CORPORATION	N00014-14-C-0041		\$ 275
12	RD PO 911014 JOB 5795-049 & 050	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ASSURANCE TECHNOLOGY CORPORATION	GS00Q140ADS402/N00173-15-F2002		\$ 161,489
12	RD 23607 (PO 1957)	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ATI, INC.	N68335-15-C-0291		\$ (17)
12	RD 956537	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	BAE SYSTEMS	N66604-17-C-0005		\$ 27,287
12	RD SUBC 23977	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	BNNT, LLC	N00014-16-C-2058		\$ 21,742
12	RD 106417SB3K TO 2	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	BOOZ ALLEN HAMILTON INC.	N00178-04-D-4024		\$ 15,117
12	RD 106417SB3K TO 2 MOD 1	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	BOOZ ALLEN HAMILTON INC.	N00178-04-D-4024		\$ 4,155
12	RD SC1505001	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CHARLES RIVER ANALYTICS INC.	N/A		\$ 17,841
12	RD SC11317702	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CHARLES RIVER ANALYTICS INC.	N00014-12-D-0583		\$ 22,485
12	RD S160600115	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CONCURRENT TECHNOLOGIES CORPORATION	N00014-10-D-0062		\$ 13,192
12	RD 15-01	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CORTANA	N68335-14-C-0180		\$ 1,154
12	RD 191-16-C-0001	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CORTANA	N68335-15-C-0142		\$ 107,139
12	RD 14-C-0073/C591	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CRAFT TECH	N/A		\$ 66,228
12	RD 25148 PO #500254	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CURTISS-WRIGHT CORPORATION	N00406-15-D-5021		\$ 87,729
12	RD 25150	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CURTISS-WRIGHT CORPORATION	N00406-15-D-5021		\$ 87,729
12	RD 491786	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CURTISS-WRIGHT CORPORATION	N00406-13-C-3012		\$ (522)
12	RD 492295	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CURTISS-WRIGHT CORPORATION	N00406-13-C-3012		\$ (1,276)
12	RD 494297	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CURTISS-WRIGHT CORPORATION	N00406-13-C-3012		\$ 92,516
12	RD 72P0003635	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	DRS CONSOLIDATED CONTROLS, INC.	N00024-08-C-2103		\$ 59,969
12	RD ARL-PSU 134Y02 TO PO-0007973	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ENGLITY CORPORATION	N00178-04-D-4143 DO-4Y02		\$ (2,108)
12	RD 23369	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GEAR RESEARCH INSTITUTE	N68335-13-C-0225		\$ 299
12	RD 51ESM795547	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GENERAL DYNAMICS CORPORATION	B11-2011076G005		\$ 6,319
12	RD 51ESM871234	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GENERAL DYNAMICS CORPORATION	B11-2011076G005		\$ 6,347
12	RD G11W5791	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GENERAL DYNAMICS CORPORATION	N61331-11-C-0017		\$ 285,735
12	RD 24131 PO #SNC028-058	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GENERAL DYNAMICS ELECTRIC BOAT	N/A		\$ 25,341
12	RD PPS030-087 SUPP 028	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GENERAL DYNAMICS ELECTRIC BOAT	N00014-02-C-2101		\$ 315,003
12	RD SNC055-080	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GENERAL DYNAMICS ELECTRIC BOAT	N/A		\$ 97,148
12	RD FFP-2016-PSU-0426	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GLOBAL ENGINEERING & MATERIALS, INC.	N68335-16-C-0197		\$ 32,000
12	RD PM-220730	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	H.C. MATERIALS CORPORATION	N00014-12-C-0368		\$ 630
12	RD 424568	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	HARRIS CORPORATION	N00173-12-D-2023 DO31		\$ 446,425

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
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FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	2015-446-PSUARL	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	HEPBURN AND SONS, LLC	TIA 2015-446	\$ 9,365
12	RD	4500471313	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	HUNTINGTON INGALLS INDUSTRIES, INC.	CLASSIFIED	\$ (12)
12	RD	3251	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	INTELLIGENT OPTICAL SYSTEMS, INC.	N68335-15-0260	\$ 14,594
12	RD	SUBC IOS 3263 NAVY - LUT AM II	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	INTELLIGENT OPTICAL SYSTEMS, INC.	N68335-17-C-0148	\$ 81,504
12	RD	117643 TO 119377	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	N00024-13-D-6400	\$ (11)
12	RD	117643 TO 133521	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	N00024-13-D-6400	\$ 119,215
12	RD	117643/TO 133817	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	N00024-13-D-6400	\$ (5,078)
12	RD	134026 MSA 117643	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	N00024-13-D-6400	\$ 74,941
12	RD	MSA 117643/ 24961 TO 138016	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	N00024-13-D-6400	\$ 223,197
12	RD	2015-4525	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	KCF TECHNOLOGIES, INC.	N00024-15-P-4525	\$ 23,346
12	RD	25294/17-4037	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	KCF TECHNOLOGIES, INC.	N00024-17-C-4037	\$ 243
12	RD	20856 PO 160005	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	L3 BRASHEAR	N/A	\$ 93,193
12	RD	DWY-16-100 TO2	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	L3 BRASHEAR	MIT LINCOLN LABS	\$ 220,206
12	RD	P010168364	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	LEIDOS	N00173-13-F-2007	\$ 22,892
12	RD	P0 4102690612	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	LOCKHEED MARTIN CORPORATION	SNC043-014	\$ 85,962
12	RD	PO 4102690612	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	LOCKHEED MARTIN CORPORATION	N/A	\$ 54,440
12	RD	PO 4102690612	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	LOCKHEED MARTIN CORPORATION	SNC043-014	\$ 134,913
12	RD	NAV-088II	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	LYNNTECH INC.	N00014-15-C-0088	\$ 108,884
12	RD	6E89-004	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	METRON, INC.	N00014-12-D-0586	\$ (5)
12	RD	F7112-04 IB000025007	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	NEW YORK UNIVERSITY	N00014-12-1-0912	\$ 3,706
12	RD	4501910489	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	NORTHROP GRUMMAN CORPORATION	N/A	\$ 27,874
12	RD	7500148620	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	NORTHROP GRUMMAN CORPORATION	N00178-04-D-4091/N410	\$ 42,317
12	RD	8180077727	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	NORTHROP GRUMMAN CORPORATION	30062448	\$ (159)
12	RD	OASIS14-SC-06	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OASIS, INC.	N00014-14-C-0315	\$ 103,512
12	RD	23238 PO BU0TM-54047	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OCEANEERING INTERNATIONAL, INC.	SNY088-001	\$ 3,214
12	RD	23404	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OCEANEERING INTERNATIONAL, INC.	SNY088-001	\$ (2,730)
12	RD	23773	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OCEANEERING INTERNATIONAL, INC.	SNY088-001	\$ (683)
12	RD	23775	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OCEANEERING INTERNATIONAL, INC.	SNY088-001	\$ (1,365)
12	RD	24578	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OCEANEERING INTERNATIONAL, INC.	N00173-14-D-2017	\$ 62,584
12	RD	25227 (25580 AMEND 1)	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OCEANEERING INTERNATIONAL, INC.	UNNUMBERED	\$ 259,009
12	RD	BUGPV-1241	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OCEANEERING INTERNATIONAL, INC.	N00024-13-C-6403	\$ 4,144

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CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	BUOTM-58119 RSA 23894	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OCEANEERING INTERNATIONAL, INC.	N00173-14-D-2017/0004	\$ 11,108
12	RD	BUOVN-63995	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OCEANEERING INTERNATIONAL, INC.	N00024-13-C-6403	\$ (18)
12	RD	RSA 23670	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OCEANEERING INTERNATIONAL, INC.	SNY088-001	\$ (1,366)
12	RD	RSA 23671	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	OCEANEERING INTERNATIONAL, INC.	SNY088-001	\$ (2,729)
12	RD	163146	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	POLYK TECHNOLOGIES	N00014-14-C-0205	\$ 160,017
12	RD	25761 PO 00000000061012	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	PROGENY SYSTEMS CORPORATION	N00024-11-C-6296	\$ 54,830
12	RD	4509-02	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	PROMETHEUS INNOVATIONS LLC	N00024-12-C-4509	\$ (6,015) \$ (6,015)
12	RD	1548/ 25432	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	QUESTEK INNOVATIONS LLC	N68335-17-C-0318	\$ 370
12	RD	498565	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ROLLS-ROYCE	N00014-09-D-0680	\$ 3,716
12	RD	694376	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ROLLS-ROYCE	N00014-16-C-2031	\$ 105,135
12	RD	5004-PSU DO-6	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	SABRE SYSTEMS, INC.	N00178-05-D-4546 DO-4Y02	\$ (440)
12	RD	PO 2943	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	SRI INTERNATIONAL	N00173-16-F0251	\$ 96,147
12	RD	5603FC0213 TO 03 20837	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	STIMULUS ENGINEERING SERVICES, INC.	N00178-08-D-5603	\$ 14,921
12	RD	S009	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	TECHNOSOFT, INC.	N00014-13-P-1199	\$ 27,513
12	RD	S-126-000-001	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	UES, INC.	N68335-17-C-0010	\$ 25,142
12	RD	2839-10-SK-0006/PU-0744-2839	DEPARTMENT OF THE NAVY, OFFICE OF THE CHIEF OF NAVAL RESEARCH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	WR SYSTEMS, LTD	N65236-10-D-2839	\$ (172)
12	RD	M0008816WRPC702	MARINE CORPS SYSTEMS COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 67,192
12	RD	M67854-11-C-9040	MARINE CORPS SYSTEMS COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (319)
12	RD	H98230-12-C-1130	NATIONAL SECURITY AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ (163)
12	RD	H98230-14-1-0153, MOD 1	NATIONAL SECURITY AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 1,701
12	RD	H98230-15-1-0008	NATIONAL SECURITY AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 15,185
12	RD	H98230-15-1-0253	NATIONAL SECURITY AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 22,639
12	RD	H98230-15-1-0253, MOD P01	NATIONAL SECURITY AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 3,007
12	RD	H98230-15-1-0289	NATIONAL SECURITY AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 98,324
12	RD	H98230-16-D-0022 DO 0001	NATIONAL SECURITY AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 290,678
12	RD	H98230-16-D-0022 DO 0004	NATIONAL SECURITY AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 207,614
12	RD	H98230-16-D-0022/0001	NATIONAL SECURITY AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 757,811
12	RD	H98230-16-D-0022/0002	NATIONAL SECURITY AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 248,277
12	RD	H98230-16-D-0022/0003	NATIONAL SECURITY AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 6,216
12	RD	H98230-16-D-0022/0005	NATIONAL SECURITY AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 12,211
12	RD	9/15/2016-9/14/2017	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 140,440
12	RD	W81XWH-12-1-0256	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 177,156
12	RD	W81XWH-14-1-0283	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 362,307
12	RD	W81XWH-16-1-0117	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 204,412
12	RD	W911NF-11-D-0002 DO 0003	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 722,929 \$ 827,003
12	RD	W911NF-14-1-0475	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 103,538 \$ 119,141
12	RD	W911NF-14-2-0084	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 2,161

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12 RD	W911NF-15-1-0576	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 115,770	\$ 195,395
12 RD	W911NF-15-2-0066	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 136,248
12 RD	W911NF-16-1-0484	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 301,160
12 RD	W911NF-17-1-0155	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 31,812
12 RD	W911W6-11-2-0011	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 8,391	\$ 532,944
12 RD	W911W6-11-2-0011 MOD P00010	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 4,476
12 RD	W911W6-17-2-0003	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 52,551	\$ 588,503
12 RD	W911W6-17-2-0003 TASK A.1.1	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 6,693
12 RD	W911W6-17-2-0003 TASK A.1.12	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 5,148
12 RD	W9128F-16-2-0005	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 62,764
12 RD	W912HQ-12-C-0044	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 5,764	\$ 8,348
12 RD	W912HQ-15-C-0063	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 64,928
12 RD	W912HQ-16-C-0006	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 87,019	\$ 632,564
12 RD	W91CRB-16-C-0051	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y				\$ 102,256
12 RD	2014-309	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	N/A		\$ 116,486
12 RD	2014-309 OT INITIATIVE NO 1	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	N/A	\$ 39,183	\$ 77,421
12 RD	2014-309-002	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	DOTC-17-01-INIT0453	\$ 43,500	\$ 145,256
12 RD	2015-328 TASK 01	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	W15QKN-10-9-0003	\$ 70,647	\$ 180,914
12 RD	NRTC-FY15-C-02/BASE 2015-328	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	W1QKN-10-9-0003	\$ 19,625	\$ 71,446
12 RD	208 CO 002	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	AVX AIRCRAFT COMPANY	W911W6-16-C-0005		\$ 98,227
12 RD	20120990	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CFD RESEARCH CORPORATION	W81XWH-14-C-0003		\$ 65,528
12 RD	CFD RES CORP	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CFD RESEARCH CORPORATION	W81XWH-14-C-0045		\$ 97,105
12 RD	177966	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	CYTOSORBENTS CORPORATION	W81XWH-16-C-0025		\$ 3,147
12 RD	165008	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	DIGITAL SOLID STATE PROPULSION INC.	DEFENSE ADVANCED RESEARCH PROJ		\$ 2,282
12 RD	CH010349	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	DYNETICS, INC.	W9113M-14-D-0002		\$ 46,877
12 RD	23436	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GEAR RESEARCH INSTITUTE	W911QX-14-C-0071		\$ 87,877
12 RD	4500063383	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GENERAL ATOMICS	W15P7T-06-D-E402		\$ 36,401
12 RD	E2030473	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	GEORGE MASON UNIVERSITY	N/A		\$ 88,657
12 RD	52609/ 25242	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	IAP RESEARCH, INC.	N/A		\$ 511
12 RD	W911NF-06-3-0001 PO 5004776783	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	IBM	N/A		\$ (1)
12 RD	2015-0132	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	KCF TECHNOLOGIES, INC.	W81XWH-13-C-0132		\$ 42,420
12 RD	PO10188059	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	LEIDOS	W15QKN-14-9-1001		\$ 78,784
12 RD	5710003781	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	W911NF-13-D-0001, T.O. 8		\$ 15,154
12 RD	MATSYS SA-16-08	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	MATSYS INC.	U.S. DEPARTMENT OF THE ARMY		\$ 25,000
12 RD	25750	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	NAMMO TALLEY INC	W911QY-17-C-00300		\$ 4,046
12 RD	15-04 CHANGE ORDER 03	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	NEXTGEN AERONAUTICS	W15QKN-15-C-0029		\$ 198,191
12 RD	1384	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	QUESTEK INNOVATIONS LLC	W011W6-16-C-0011		\$ 6,547
12 RD	W911NF-09-2-0053 MOD 0026	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	RAYTHEON BBN TECHNOLOGIES CORPORATION	N/A		\$ 98,763
12 RD	170427 PO 4500427227	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	SIKORSKY AIRCRAFT CORPORATION	W15QKN-10-9-0003		\$ 84,077
12 RD	23823 PO 4500426062	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	SIKORSKY AIRCRAFT CORPORATION	W911W6-11-2-0008		\$ 17,412
12 RD	41980-100114-01	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	STRUCTURED MATERIALS INDUSTRIES, INC.	W911NF-14-C-0163		\$ 74,051
12 RD	328662	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	UNIVERSITY OF ARIZONA, THE	W912HQ-12-C-0060		\$ 11,311
12 RD	16-TMP-01-215461	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	WORCESTER POLYTECHNIC INSTITUTE	W911NF-15-2-0024		\$ 65,500

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
12	RD	16-TMP-01-215461/ 215465	U.S. ARMY MATERIEL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	N	WORCESTER POLYTECHNIC INSTITUTE	W911NF-15-2-0024	\$ 258,147
12	RD	W81XWH-15-1-0339	U.S. ARMY MEDICAL COMMAND - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 182,865,161	\$ 544,486,028	Y			\$ 43,388
15	153		HURRICANE SANDY DISASTER RELIEF - COASTAL RESILIENCY GRANTS	RESEARCH AND DEVELOPMENT	\$ 8,647	\$ 544,486,028	N	DELAWARE VALLEY REGIONAL PLANNING COMMISSION	N/A	\$ 8,647
15	225		RECREATION RESOURCE MANAGEMENT	RESEARCH AND DEVELOPMENT	\$ 21,627	\$ 544,486,028	Y			\$ 21,627
15	232		WILDLAND FIRE RESEARCH AND STUDIES	RESEARCH AND DEVELOPMENT	\$ 115,317	\$ 544,486,028	Y			\$ 115,317
15	255		SCIENCE AND TECHNOLOGY PROJECTS RELATED TO COAL MINING AND RECLAMATION	RESEARCH AND DEVELOPMENT	\$ 85,718	\$ 544,486,028	Y			\$ 85,718
15	560		SECURE WATER ACT - RESEARCH AGREEMENTS	RESEARCH AND DEVELOPMENT	\$ 66,184	\$ 544,486,028	Y			\$ 66,184
15	608		FISH AND WILDLIFE MANAGEMENT ASSISTANCE	RESEARCH AND DEVELOPMENT	\$ 41,786	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4100053520	\$ (1)
15	608		FISH AND WILDLIFE MANAGEMENT ASSISTANCE	RESEARCH AND DEVELOPMENT	\$ 41,786	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4100075144	\$ 11,178
15	608		FISH AND WILDLIFE MANAGEMENT ASSISTANCE	RESEARCH AND DEVELOPMENT	\$ 41,786	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	F12AP01037	\$ 29,633
15	608		FISH AND WILDLIFE MANAGEMENT ASSISTANCE	RESEARCH AND DEVELOPMENT	\$ 41,786	\$ 544,486,028	N	UNIVERSITY OF MARYLAND CENTER FOR ENVIRONMENTAL SCIENCE	F12AP01037	\$ 355 \$ 976
15	634		STATE WILDLIFE GRANTS	RESEARCH AND DEVELOPMENT	\$ 125,284	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4100061794	\$ 4,320
15	634		STATE WILDLIFE GRANTS	RESEARCH AND DEVELOPMENT	\$ 125,284	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4100072456	\$ 5,720
15	634		STATE WILDLIFE GRANTS	RESEARCH AND DEVELOPMENT	\$ 125,284	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	ME 231121 4100067192	\$ 104,010
15	634		STATE WILDLIFE GRANTS	RESEARCH AND DEVELOPMENT	\$ 125,284	\$ 544,486,028	N	FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION	N/A	\$ 11,234
15	662		GREAT LAKES RESTORATION	RESEARCH AND DEVELOPMENT	\$ 120,530	\$ 544,486,028	Y		\$ 54,628	\$ 80,947
15	662		GREAT LAKES RESTORATION	RESEARCH AND DEVELOPMENT	\$ 120,530	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4000019958	\$ 19,881
15	662		GREAT LAKES RESTORATION	RESEARCH AND DEVELOPMENT	\$ 120,530	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4000019959	\$ 19,702
15	691		DEPARTMENT OF THE INTERIOR - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 11,831	\$ 544,486,028	N	WILDLIFE MANAGEMENT INSTITUTE	N/A	\$ 11,831
15	805		ASSISTANCE TO STATE WATER RESOURCES RESEARCH INSTITUTES	RESEARCH AND DEVELOPMENT	\$ 142,791	\$ 544,486,028	Y		\$ 41,195	\$ 93,917
15	805		ASSISTANCE TO STATE WATER RESOURCES RESEARCH INSTITUTES	RESEARCH AND DEVELOPMENT	\$ 142,791	\$ 544,486,028	N	UNIVERSITY OF ILLINOIS	G16AP00001	\$ 48,874
15	807		EARTHQUAKE HAZARDS PROGRAM ASSISTANCE	RESEARCH AND DEVELOPMENT	\$ 47,049	\$ 544,486,028	Y			\$ 47,049
15	808		U.S. GEOLOGICAL SURVEY RESEARCH AND DATA COLLECTION	RESEARCH AND DEVELOPMENT	\$ 72,969	\$ 544,486,028	Y			\$ 72,969
15	812		COOPERATIVE RESEARCH UNITS	RESEARCH AND DEVELOPMENT	\$ 364,356	\$ 544,486,028	Y			\$ 364,356
15	815		NATIONAL LAND REMOTE SENSING EDUCATION OUTREACH AND RESEARCH	RESEARCH AND DEVELOPMENT	\$ 4,000	\$ 544,486,028	N	CALIFORNIA UNIVERSITY OF PENNSYLVANIA	AV13-PA01 1314ES008	\$ 4,000
15	923		NATIONAL CENTER FOR PRESERVATION TECHNOLOGY AND TRAINING	RESEARCH AND DEVELOPMENT	\$ 7,054	\$ 544,486,028	Y			\$ 7,054
15	944		NATURAL RESOURCE STEWARDSHIP	RESEARCH AND DEVELOPMENT	\$ 17,125	\$ 544,486,028	Y			\$ 17,125
15	945		COOPERATIVE RESEARCH AND TRAINING PROGRAMS - RESOURCES OF THE NATIONAL PARK SYSTEM	RESEARCH AND DEVELOPMENT	\$ 375,175	\$ 544,486,028	Y			\$ 375,175
15	RD	E14PC00002	DEPARTMENT OF THE INTERIOR - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 595,095	\$ 544,486,028	Y			\$ 163,756
15	RD	P14AC01354 P11AC30805	DEPARTMENT OF THE INTERIOR - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 595,095	\$ 544,486,028	Y			\$ 31,529
15	RD	1434-03HQURU1548	DEPARTMENT OF THE INTERIOR - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 595,095	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	1434-03HQURU1548	\$ 98,671
15	RD	23033	DEPARTMENT OF THE INTERIOR - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 595,095	\$ 544,486,028	N	HADAL, INC.	D16PC00210	\$ 136,771
15	RD	0404.16.053525	DEPARTMENT OF THE INTERIOR - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 595,095	\$ 544,486,028	N	NATIONAL FISH AND WILDLIFE FOUNDATION	N/A	\$ 28,857
15	RD	SA75281310-N M/INV-3N PO38989	DEPARTMENT OF THE INTERIOR - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 595,095	\$ 544,486,028	N	UNIVERSITY OF MARYLAND CENTER FOR ENVIRONMENTAL SCIENCE	F12AP01037	\$ 1,414
15	RD	P13AC00802	NATIONAL PARK SERVICE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 595,095	\$ 544,486,028	Y		\$ 52,981	\$ 70,613
15	RD	P13AC01255	NATIONAL PARK SERVICE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 595,095	\$ 544,486,028	Y			\$ (2,002)
15	RD	P14AC00209	NATIONAL PARK SERVICE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 595,095	\$ 544,486,028	Y			\$ 14,314

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
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CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
15	RD P14AC00924	NATIONAL PARK SERVICE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 595,095	\$ 544,486,028	Y				\$ 6,817
15	RD P14AC01495	NATIONAL PARK SERVICE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 595,095	\$ 544,486,028	Y				\$ 44,355
16	560	NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT PROJECT GRANTS	RESEARCH AND DEVELOPMENT	\$ 230,386	\$ 544,486,028	Y			\$ 83,048	\$ 227,643
16	560	NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT PROJECT GRANTS	RESEARCH AND DEVELOPMENT	\$ 230,386	\$ 544,486,028	N	RTI INTERNATIONAL	2011-RY-BX-0003		\$ 2,743
16	566	NATIONAL INSTITUTE OF JUSTICE W.E.B. DUBOIS FELLOWSHIP PROGRAM	RESEARCH AND DEVELOPMENT	\$ 12,496	\$ 544,486,028	N	TOWSON UNIVERSITY	NATIONAL INSTITUTE OF JUSTICE		\$ 12,496
16	817	BYRNE CRIMINAL JUSTICE INNOVATION PROGRAM	RESEARCH AND DEVELOPMENT	\$ 21,595	\$ 544,486,028	N	TRI COUNTY COMMUNITY ACTION	N/A		\$ 21,595
16	RD 2016-BJ-R-1975	BUREAU OF JUSTICE STATISTICS - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 633,380	\$ 544,486,028	Y				\$ 92,640
16	RD 2014-DN-BX-K007	NATIONAL INSTITUTE OF JUSTICE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 633,380	\$ 544,486,028	Y			\$ 68,876	\$ 146,926
16	RD 2014-DN-BX-K022	NATIONAL INSTITUTE OF JUSTICE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 633,380	\$ 544,486,028	Y				\$ 148,597
16	RD 2015-DN-BX-K025	NATIONAL INSTITUTE OF JUSTICE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 633,380	\$ 544,486,028	Y				\$ 191,314
16	RD 2015-U-CX-0002	NATIONAL INSTITUTE OF JUSTICE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 633,380	\$ 544,486,028	Y				\$ 20,784
16	RD 2015-R2-CX-K032	NATIONAL INSTITUTE OF JUSTICE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 633,380	\$ 544,486,028	Y				\$ 33,119
17	RD BS-26355-14-60-R-42	DEPARTMENT OF LABOR - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 19,634	\$ 544,486,028	Y			\$ 19,061	\$ 19,634
19	RD S-LMAQM-15-CA-1112	DEPARTMENT OF STATE - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 233,644	\$ 544,486,028	Y				\$ 233,644
20	109	AIR TRANSPORTATION CENTERS OF EXCELLENCE	RESEARCH AND DEVELOPMENT	\$ 372,681	\$ 544,486,028	Y				\$ 372,681
20	205	HIGHWAY PLANNING AND CONSTRUCTION	RESEARCH AND DEVELOPMENT	\$ 664,459	\$ 544,486,028	N	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION	N/A		\$ 118,125
20	701	UNIVERSITY TRANSPORTATION CENTERS PROGRAM	RESEARCH AND DEVELOPMENT	\$ 94,220	\$ 544,486,028	Y			\$ 94,220	\$ 94,220
20	RD 188059	DEPARTMENT OF TRANSPORTATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y				\$ 1,255
20	RD DTFH61-12-C-00032	DEPARTMENT OF TRANSPORTATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y			\$ 54,103	\$ 112,726
20	RD DTFH6114CO0012	DEPARTMENT OF TRANSPORTATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y				\$ 62,915
20	RD PA 24-7011	DEPARTMENT OF TRANSPORTATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y			\$ 92,509	\$ 162,697
20	RD PA 24-7012	DEPARTMENT OF TRANSPORTATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y				\$ 1,612,739
20	RD PA-24-2017-007-00	DEPARTMENT OF TRANSPORTATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y				\$ 2,009,722
20	RD 4300544869	DEPARTMENT OF TRANSPORTATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300544869		\$ 15,129
20	RD 460000890 CO 7	DEPARTMENT OF TRANSPORTATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	N	NORFOLK SOUTHERN CORPORATION	N/A		\$ 8,600
20	RD RF01346346	DEPARTMENT OF TRANSPORTATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	N	OHIO STATE UNIVERSITY, THE	N/A		\$ (2,132)
20	RD 23510	DEPARTMENT OF TRANSPORTATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	N	TECHKNOWSERV	DTRT5715C10046		\$ 69,902
20	RD 13-C-AJFE-PSU	FEDERAL AVIATION ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y				\$ 220,572
20	RD 13-C-AJFE-PSU AMED. 022	FEDERAL AVIATION ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y			\$ 26,619	\$ 100,067
20	RD 13-C-AJFE-PSU AMEND 009 & 18	FEDERAL AVIATION ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y				\$ 14,823
20	RD 13-C-AJFE-PSU AMENDMENT 014	FEDERAL AVIATION ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y				\$ 68,736
20	RD 13-C-AJFE-PSU AMENDMENT 016	FEDERAL AVIATION ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y				\$ 15,160
20	RD 13-C-AJFE-PSU AMENDMENT 017	FEDERAL AVIATION ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y				\$ 35,299
20	RD 13-C-AJFE-PSU AMENDMENT 12	FEDERAL AVIATION ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y			\$ 39,953	\$ 69,517
20	RD DTFH616G00039	FEDERAL AVIATION ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y				\$ 4,785
20	RD 22205 TO 94	FEDERAL AVIATION ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	N	UNITED TECHNOLOGIES CORPORATION - PRATT & WHITNEY DIVISION	DTFAWA-15-A-80010		\$ 1,207,940
20	RD 38049-02 TO T-11-008	FEDERAL HIGHWAY ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	N	VHB	DTFH61-10-D-00022		\$ 43,084
20	RD 38110-04 TASK A	FEDERAL HIGHWAY ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	N	VHB	DTFH61-13-D-00001		\$ 65,677
20	RD DTFRS3-12-C-00029	FEDERAL RAILROAD ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y			\$ (11,630)	\$ (11,630)
20	RD DTFRS316C00023	FEDERAL RAILROAD ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 5,966,525	\$ 544,486,028	Y			\$ 18,260	\$ 78,942
21	RD 161420	DEPARTMENT OF THE TREASURY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 59,863	\$ 544,486,028	Y				\$ 19,342
21	RD ASSIGNMENT AGREEMENT	DEPARTMENT OF THE TREASURY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 59,863	\$ 544,486,028	Y				\$ 40,521
39	RD GS-00P-13-CY-0020	GENERAL SERVICES ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 821,168	\$ 544,486,028	Y				\$ 821,168
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	Y			\$ 1,015,262	\$ 6,868,968

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	BOISE STATE UNIVERSITY	NNX16AT71G		\$ 32,050
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	CORNELL UNIVERSITY	NNX16AK876		\$ 47,750
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	LM. SYSTEMS GROUP, INC.	NNX15AF38G		\$ 59,626
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	MICHIGAN TECHNOLOGICAL UNIVERSITY	NNX14AN78G		\$ (222)
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	MONTANA STATE UNIVERSITY	NNX16AJ62G		\$ 2,072
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	SMITHSONIAN	NNX13AD46G		\$ 12,301
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	N/A		\$ 77,795
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	NAS8-03060		\$ 545,371
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	NNX15AC44G		\$ 15,599
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	NNZ15AC44G		\$ 25,000
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	SOUTH DAKOTA STATE UNIVERSITY	NNX15AP81G		\$ 58,086
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555		\$ 71,755
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	UNIVERSITY OF CHICAGO, THE	NNX16AB44G		\$ 18,815
43	001	SCIENCE	RESEARCH AND DEVELOPMENT	\$ 7,887,642	\$ 544,486,028	N	UNIVERSITY OF WASHINGTON	NNA13AA93A		\$ 42,596
43	002	AERONAUTICS	RESEARCH AND DEVELOPMENT	\$ 937,257	\$ 544,486,028	Y			\$ 32,635	\$ 253,299
43	002	AERONAUTICS	RESEARCH AND DEVELOPMENT	\$ 937,257	\$ 544,486,028	N	BAYLOR COLLEGE OF MEDICINE	NATIONAL AERONAUTICS AND SPACE		\$ 326,046
43	002	AERONAUTICS	RESEARCH AND DEVELOPMENT	\$ 937,257	\$ 544,486,028	N	BAYLOR COLLEGE OF MEDICINE	NCC9-58-168		\$ 268,893
43	002	AERONAUTICS	RESEARCH AND DEVELOPMENT	\$ 937,257	\$ 544,486,028	N	GEORGIA INSTITUTE OF TECHNOLOGY	NNX16AK24A		\$ 87,500
43	002	AERONAUTICS	RESEARCH AND DEVELOPMENT	\$ 937,257	\$ 544,486,028	N	WORCESTER POLYTECHNIC INSTITUTE	NNC14AA01A		\$ 1,519
43	003	EXPLORATION	RESEARCH AND DEVELOPMENT	\$ 27,210	\$ 544,486,028	Y				\$ 27,210
43	007	SPACE OPERATIONS	RESEARCH AND DEVELOPMENT	\$ 261,271	\$ 544,486,028	Y				\$ 261,271
43	008	EDUCATION	RESEARCH AND DEVELOPMENT	\$ 1,116,606	\$ 544,486,028	Y			\$ 184,082	\$ 1,013,191
43	009	CROSS AGENCY SUPPORT	RESEARCH AND DEVELOPMENT	\$ 10,097	\$ 544,486,028	Y				\$ 10,097
43	012	SPACE TECHNOLOGY	RESEARCH AND DEVELOPMENT	\$ 181,265	\$ 544,486,028	Y				\$ 181,265
43	RD	4/30/2017-6/30/2018	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y				\$ 10,877
43	RD	NAS5-00136	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y			\$ 608,303	\$ 1,698,223
43	RD	NNA09DA76A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y				\$ 13
43	RD	NNC16MG24P	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y				\$ 11,861
43	RD	NNL16AB44P	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y				\$ 7,632
43	RD	NNM13AA06G	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y				\$ 760
43	RD	NNX09AL65G	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y			\$ 22,413	\$ 24,001
43	RD	NNX13AR34A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y				\$ 743
43	RD	NNX15AJ53G	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y				\$ 16,300
43	RD	NNX15AR44G	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y				\$ 22,623
43	RD	NNX15AR50G	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y				\$ 10,687
43	RD	NNX15AT68G	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y				\$ 8,444
43	RD	NNX16AE64G	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	\$ 6,983,727	\$ 544,486,028	Y				\$ 17,000

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
43	RD	NNX16AE66G	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	Y			\$ 6,449
43	RD	NNX16AF33G	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	Y			\$ 74,076
43	RD	NNX17AB07G	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	Y		\$ 12,805	\$ 138,666
43	RD	AGNC160519	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	AMERICAN GNC CORPORATION	NNX16CJ06C	\$ 20,174
43	RD	APS-15-07	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	APPLIED PHYSICAL SCIENCES CORPORATION	NNL15AA00C	\$ 11
43	RD	APS-15-07 MOD 01	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	APPLIED PHYSICAL SCIENCES CORPORATION	NNL15AA00C	\$ 82,035
43	RD	US001-0000367538	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	BATTELLE PACIFIC NORTHWEST NATIONAL LABORATORY	NNH13CH25C	\$ 13,207
43	RD	MA02701 NCC9-58-168	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	BAYLOR COLLEGE OF MEDICINE	NCC9-58-168	\$ 25,000
43	RD	44A-1092750	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	CALIFORNIA INSTITUTE OF TECHNOLOGY	NASA	\$ 41,641
43	RD	NNX16CL43P-PSU-669 PO 816052	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	FIBERTEK, INC.	NNX16CL43P	\$ 39,521
43	RD	24704	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	GLOBAL TECHNOLOGY ENTERPRISES	NNX16CM24P	\$ 31,279
43	RD	18331	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	HYPERTHERM INC.	NNX11CG62P	\$ 226
43	RD	15N0511 EMAIL DATED 12/8/15	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JACOBS ESSA GROUP	NNM12AA41C	\$ 86
43	RD	15N0511 REV 3	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JACOBS ESSA GROUP	NNM12AA41C	\$ 8,000
43	RD	1416202	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	N/A	\$ 10
43	RD	1459238	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	NNN12AA01C	\$ 81,622
43	RD	1525870	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	NNN12AA01C	\$ 19,045
43	RD	1527416	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	N/A	\$ 9,991
43	RD	1531994	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	N/A	\$ 92,426
43	RD	1537000	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	NATIONAL AERONAUTICS AND SPACE	\$ 3,896
43	RD	1542445	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	NNN12AA01C	\$ 140,338
43	RD	1544619	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	N/A	\$ 7,336
43	RD	1544641	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	N/A	\$ 5,000
43	RD	1546516 PO 1546529	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	NNN12AA01C	\$ 10,000
43	RD	1547296	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	NNN12AA01C	\$ 56,552
43	RD	1547612	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	NNN12AA01C	\$ 224,726
43	RD	1549273	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	NNN12AA01C	\$ 123,492
43	RD	1561319	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	JET PROPULSION LABORATORY	N/A	\$ 10,300
43	RD	6574002326	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	LOCKHEED MARTIN CORPORATION	NATIONAL AERONAUTICS AND SPACE	\$ 56,436

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
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CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
43	RD	186187	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	MICROENGINEERED METALS, INC.	NNX16CC40P	\$ 34,784
43	RD	REMS 201605 TO NNA17BF39T	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	MONTEREY TECHNOLOGIES, INC.	NNA13AA84B	\$ 11,807
43	RD	24189	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	QORTEK	NNX16CC11C	\$ 67,079
43	RD	AR3-14015X	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	NAS8-03060	\$ 27,676
43	RD	GO3-14100X	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	NAS8-03060	\$ 47,697
43	RD	GO5-16003X	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	NAS8-03060	\$ 21,232
43	RD	GO5-16015X	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	NAS8-03060	\$ 18,306
43	RD	SV4-74018	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	NAS8-03060	\$ 344,408
43	RD	189712	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SOLID STATE CERAMICS INC.	NNX16CS16C	\$ 57,737
43	RD	HST-GO-12296.010-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 10,371
43	RD	HST-GO-12586.016-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 3,499
43	RD	HST-GO-12594.004-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 7,258
43	RD	HST-GO-12595.01-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	N/A	\$ 6,977
43	RD	HST-GO-12866.01-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 27,449
43	RD	HST-GO-13115.01-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 15,987
43	RD	HST-GO-13308.005-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 12,806
43	RD	HST-GO-13369.002-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ (14)
43	RD	HST-GO-13398.02-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 43,796
43	RD	HST-GO-13457.02-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 3,991
43	RD	HST-GO-13468.001-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 19,486
43	RD	HST-GO-13469.001-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 31,999
43	RD	HST-GO-13516.001-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 24,994
43	RD	HST-GO-13660.005-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 45,723
43	RD	HST-GO-13783.001-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 22,947
43	RD	HST-GO-13802.001-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 24,431
43	RD	HST-GO-13811.004-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 10,986
43	RD	HST-GO-13935.001-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 21,016
43	RD	HST-GO-14157.001-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 597
43	RD	HST-GO-14227.012-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 5,694
43	RD	HST-GO-14249.002-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 1,891
43	RD	HST-GO-14258.001-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 690

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
43	RD	HST-GO-14664.001-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 2,981
43	RD	HST-GO-14729.003-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 20,040
43	RD	HST-GO-14745.001-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 7,083
43	RD	HST-HF2-51330.001-A AMEND 2	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 13,203
43	RD	HST-HF2-51335.001-A	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555	\$ 22,667
43	RD	186061 PO 45408	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	SYSTIMA TECHNOLOGIES, INC.	NNX16CC27P	\$ 25,000
43	RD	176076	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	TERVES INC.	NNX15CK16P	\$ (334)
43	RD	FP060761-C AMEND 1	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	UNIVERSITY OF CHICAGO, THE	NNX16AB44G	\$ 13,796
43	RD	WSCS00037	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 6,983,727	\$ 544,486,028	N	WYLE, INC.	NND15AA05C	\$ 93,152
45	024		PROMOTION OF THE ARTS GRANTS TO ORGANIZATIONS AND INDIVIDUALS	RESEARCH AND DEVELOPMENT	\$ 10,675	\$ 544,486,028	Y			\$ 667
45	130		PROMOTION OF THE HUMANITIES CHALLENGE GRANTS	RESEARCH AND DEVELOPMENT	\$ 7,628	\$ 544,486,028	Y			\$ 7,628
45	161		PROMOTION OF THE HUMANITIES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 44,238	\$ 544,486,028	Y			\$ 44,238
45	301		MUSEUMS FOR AMERICA	RESEARCH AND DEVELOPMENT	\$ 13,657	\$ 544,486,028	Y			\$ 13,657
45	312		NATIONAL LEADERSHIP GRANTS	RESEARCH AND DEVELOPMENT	\$ 150,670	\$ 544,486,028	Y			\$ 10,818
45	RD	HK-50070-13	NATIONAL ENDOWMENT FOR THE HUMANITIES - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 83,915	\$ 544,486,028	Y			\$ 6,214
45	RD	RQ-230555-15	NATIONAL ENDOWMENT FOR THE HUMANITIES - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 83,915	\$ 544,486,028	Y			\$ 77,701
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	Y		\$ 565,452	\$ 9,670,970
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	ACTUATED MEDICAL, INC.	IIP-1353176	\$ 45,093
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	ATOPTIX, LLC	1648892	\$ 39,021
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	COACHSAFE PLAYS SAFE LLC	1622894	\$ 116,019
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	HONEYWELL INTERNATIONAL INC.	N/A	\$ 50,688
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	IOWA STATE UNIVERSITY	1238335	\$ 43,267
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	IOWA STATE UNIVERSITY	N/A	\$ 56,783
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	LIGNOLINK, INC.	IIP-1353109	\$ 13,455
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	MICHIGAN TECHNOLOGICAL UNIVERSITY	CBET-1639342	\$ 29,281
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	MOBILE SLEEP TECHNOLOGIES LLC	1622766	\$ 74,240
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	RENSSELAER POLYTECHNIC INSTITUTE	EFRI-1433311	\$ 196,956
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	RENSSELAER POLYTECHNIC INSTITUTE	NATIONAL SCIENCE FOUNDATION	\$ 5,611
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	SOLID STATE CERAMICS INC.	IIP-1632476	\$ 93,504
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	UNIVERSITY OF NOTRE DAME	2016-NE-2698	\$ 27,965
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	UNIVERSITY OF PENNSYLVANIA	1542707	\$ 138,826
47	041		ENGINEERING GRANTS	RESEARCH AND DEVELOPMENT	\$ 10,708,721	\$ 544,486,028	N	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	IIP-1160977	\$ 107,042
47	049		MATHEMATICAL AND PHYSICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 19,720,413	\$ 544,486,028	Y		\$ 727,404	\$ 18,917,740
47	049		MATHEMATICAL AND PHYSICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 19,720,413	\$ 544,486,028	N	CALIFORNIA INSTITUTE OF TECHNOLOGY	1305124	\$ 138,791
47	049		MATHEMATICAL AND PHYSICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 19,720,413	\$ 544,486,028	N	OHIO STATE UNIVERSITY, THE	DMR-1420451	\$ 41,928
47	049		MATHEMATICAL AND PHYSICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 19,720,413	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, IRVINE	CHE-1414466	\$ 152,932
47	049		MATHEMATICAL AND PHYSICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 19,720,413	\$ 544,486,028	N	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, THE	1127914	\$ 70,866

See notes to schedule of expenditures of federal awards.

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FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
47 049		MATHEMATICAL AND PHYSICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 19,720,413	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN - MADISON	DMR-1234096		\$ 69,795
47 049		MATHEMATICAL AND PHYSICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 19,720,413	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN - MILWAUKEE	PHY-1104371		\$ 144,733
47 049		MATHEMATICAL AND PHYSICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 19,720,413	\$ 544,486,028	N	WASHINGTON STATE UNIVERSITY	1626566		\$ 52,271
47 049		MATHEMATICAL AND PHYSICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 19,720,413	\$ 544,486,028	N	YALE UNIVERSITY	1616086		\$ 18,351
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	Y			\$ 668,892	\$ 8,730,603
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	N	COLUMBIA UNIVERSITY	N/A		\$ 30,933
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	N	COLUMBIA UNIVERSITY	NATIONAL SCIENCE FOUNDATION		\$ 46,575
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	N	COLUMBIA UNIVERSITY	OCE-1202632		\$ 114,805
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	N	CORNELL UNIVERSITY	N/A		\$ 99,082
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	N	HARVARD UNIVERSITY	N/A		\$ 37,179
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	N	KANSAS STATE UNIVERSITY	1639734		\$ 10,004
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	N	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	AGS-1344155		\$ 10,726
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	N	UNIVERSITY OF COLORADO	AGS1135446		\$ 234,050
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	N	UNIVERSITY OF ILLINOIS	EAR-1331906		\$ 20,125
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	N	UNIVERSITY OF NEW HAMPSHIRE	EAR-1331841		\$ 47,463
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN - MADISON	PLR-1600823		\$ 29,025
47 050		GEOSCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,520,878	\$ 544,486,028	N	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	479483-19079		\$ 101,856
47 070		COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 8,297,348	\$ 544,486,028	Y			\$ 394,690	\$ 7,982,567
47 070		COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 8,297,348	\$ 544,486,028	N	NORTH DAKOTA STATE UNIVERSITY	CNS-1544621		\$ 40,005
47 070		COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 8,297,348	\$ 544,486,028	N	RUTGERS UNIVERSITY	1640834		\$ 22,688
47 070		COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 8,297,348	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, BERKELEY	1550488		\$ 2,042
47 070		COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 8,297,348	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, SANTA BARBARA	CCF-1500848		\$ 114,922
47 070		COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 8,297,348	\$ 544,486,028	N	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, THE	1331813		\$ 135,098
47 074		BIOLOGICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,383,901	\$ 544,486,028	Y			\$ 681,403	\$ 9,009,808
47 074		BIOLOGICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,383,901	\$ 544,486,028	N	IOWA STATE UNIVERSITY	1558071		\$ 7,078
47 074		BIOLOGICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,383,901	\$ 544,486,028	N	LOUISIANA STATE UNIVERSITY	DEB-1316334		\$ 25,594
47 074		BIOLOGICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,383,901	\$ 544,486,028	N	STANFORD UNIVERSITY	1518681		\$ 108,332
47 074		BIOLOGICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,383,901	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	MCB-1244303		\$ 24,286
47 074		BIOLOGICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,383,901	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	NATIONAL SCIENCE FOUNDATION		\$ 11,102
47 074		BIOLOGICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,383,901	\$ 544,486,028	N	UNIVERSITY OF SOUTH FLORIDA	I0S-1146882		\$ 12,220
47 074		BIOLOGICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,383,901	\$ 544,486,028	N	UNIVERSITY OF VIRGINIA	DEB-1237733		\$ 19,187
47 074		BIOLOGICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,383,901	\$ 544,486,028	N	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	I0S-1238057		\$ 54,578
47 074		BIOLOGICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,383,901	\$ 544,486,028	N	WASHINGTON UNIVERSITY IN ST. LOUIS	MCB-1331194		\$ 60,442
47 074		BIOLOGICAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 9,383,901	\$ 544,486,028	N	WASHINGTON UNIVERSITY IN ST. LOUIS	MCB1546840		\$ 17,345
47 075		SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	RESEARCH AND DEVELOPMENT	\$ 3,772,281	\$ 544,486,028	Y			\$ 389,084	\$ 3,505,072
47 075		SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	RESEARCH AND DEVELOPMENT	\$ 3,772,281	\$ 544,486,028	N	BOISE STATE UNIVERSITY	N/A		\$ 1,420
47 075		SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	RESEARCH AND DEVELOPMENT	\$ 3,772,281	\$ 544,486,028	N	FORDHAM UNIVERSITY	N/A		\$ 38,189
47 075		SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	RESEARCH AND DEVELOPMENT	\$ 3,772,281	\$ 544,486,028	N	NORTHWESTERN UNIVERSITY	N/A		\$ 21,006
47 075		SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	RESEARCH AND DEVELOPMENT	\$ 3,772,281	\$ 544,486,028	N	UNIVERSITY OF COLORADO	SES 11-32008		\$ 53,269
47 075		SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	RESEARCH AND DEVELOPMENT	\$ 3,772,281	\$ 544,486,028	N	UNIVERSITY OF MASSACHUSETTS AMHERST	SES 14-24210		\$ 150,858

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
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CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
47 075		SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	RESEARCH AND DEVELOPMENT	\$ 3,772,281	\$ 544,486,028	N	UNIVERSITY OF TEXAS AT AUSTIN, THE	BCS-0964596		\$ 2,467
47 076		EDUCATION AND HUMAN RESOURCES	RESEARCH AND DEVELOPMENT	\$ 7,837,993	\$ 544,486,028	Y			\$ 436,321	\$ 6,819,356
47 076		EDUCATION AND HUMAN RESOURCES	RESEARCH AND DEVELOPMENT	\$ 7,837,993	\$ 544,486,028	N	ASTRONOMICAL SOCIETY OF THE PACIFIC	DRL-1217441		\$ 15,182
47 076		EDUCATION AND HUMAN RESOURCES	RESEARCH AND DEVELOPMENT	\$ 7,837,993	\$ 544,486,028	N	CARLETON COLLEGE	DUE-1125331		\$ 13,471
47 076		EDUCATION AND HUMAN RESOURCES	RESEARCH AND DEVELOPMENT	\$ 7,837,993	\$ 544,486,028	N	CARLETON COLLEGE	N/A		\$ 75,448
47 076		EDUCATION AND HUMAN RESOURCES	RESEARCH AND DEVELOPMENT	\$ 7,837,993	\$ 544,486,028	N	COLUMBIA UNIVERSITY	N/A		\$ 45,515
47 076		EDUCATION AND HUMAN RESOURCES	RESEARCH AND DEVELOPMENT	\$ 7,837,993	\$ 544,486,028	N	CONCORD CONSORTIUM, THE	293.01		\$ 24,164
47 076		EDUCATION AND HUMAN RESOURCES	RESEARCH AND DEVELOPMENT	\$ 7,837,993	\$ 544,486,028	N	HARVARD UNIVERSITY	DRL-1503395		\$ 112,712
47 076		EDUCATION AND HUMAN RESOURCES	RESEARCH AND DEVELOPMENT	\$ 7,837,993	\$ 544,486,028	N	MUSEUM OF SCIENCE, BOSTON	N/A		\$ 10,048
47 076		EDUCATION AND HUMAN RESOURCES	RESEARCH AND DEVELOPMENT	\$ 7,837,993	\$ 544,486,028	N	NEW ENGLAND AQUARIUM	N/A		\$ 69,581
47 076		EDUCATION AND HUMAN RESOURCES	RESEARCH AND DEVELOPMENT	\$ 7,837,993	\$ 544,486,028	N	UNIVERSITY OF CENTRAL FLORIDA	DUE-1161228		\$ 5,360
47 076		EDUCATION AND HUMAN RESOURCES	RESEARCH AND DEVELOPMENT	\$ 7,837,993	\$ 544,486,028	N	UNIVERSITY OF OKLAHOMA, THE	1561660		\$ 2,194
47 078		POLAR PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 241,797	\$ 544,486,028	Y				\$ 233,330
47 078		POLAR PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 241,797	\$ 544,486,028	N	UNIVERSITY OF KANSAS, THE	ANT0424589		\$ 8,467
47 079		OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 663,910	\$ 544,486,028	Y				\$ 639,378
47 079		OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 663,910	\$ 544,486,028	N	OREGON STATE UNIVERSITY	N/A		\$ 16,697
47 079		OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING	RESEARCH AND DEVELOPMENT	\$ 663,910	\$ 544,486,028	N	OREGON STATE UNIVERSITY	OISE-0968391		\$ 7,835
47 080		OFFICE OF CYBERINFRASTRUCTURE	RESEARCH AND DEVELOPMENT	\$ 93,547	\$ 544,486,028	Y			\$ 4,550	\$ 93,547
47 083		OFFICE OF INTEGRATIVE ACTIVITIES	RESEARCH AND DEVELOPMENT	\$ 188,515	\$ 544,486,028	Y			\$ 27,931	\$ 131,659
47 083		OFFICE OF INTEGRATIVE ACTIVITIES	RESEARCH AND DEVELOPMENT	\$ 188,515	\$ 544,486,028	N	BOISE STATE UNIVERSITY	NATIONAL SCIENCE FOUNDATION		\$ 56,856
47 RD	3/1/2017-2/28/2018	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 1,339
47 RD	ACI 16-26251	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 920,688
47 RD	AGS 12-63225	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 23,813
47 RD	AGS 13-45250	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 76,627
47 RD	AST 12-11756_A02	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 849
47 RD	BCS 15-33625	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 70,671
47 RD	BCS 15-54834	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 16,785
47 RD	BCS 16-50824	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 12,920
47 RD	BCS 16-60707	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 25,669
47 RD	CMMI 16-35437	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 21,833
47 RD	CMMI 16-43146	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 40,832
47 RD	CNS 11-16626	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 494
47 RD	DBI 14-55658	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 210,440
47 RD	DBI 16-25473	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 649,261
47 RD	DEB 15-36444	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 110,728
47 RD	DGE 15-26006	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 83,364
47 RD	DMR 16-54625	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 36,476
47 RD	DMS 16-15457	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 4,000
47 RD	DUE 13-48218	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 25,313
47 RD	DUE 15-25367	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ (830)
47 RD	DUE 16-50620	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 6,717
47 RD	EAR 16-06738	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 120,147
47 RD	EAR 16-42498	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 43,116
47 RD	EFRI 14-33378	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 55,185
47 RD	IIS 12-11059	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 6,636
47 RD	IIS 16-36899	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 42,277
47 RD	IOS 11-46182_A03	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 10,000
47 RD	MCB 15-16999	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 146,631
47 RD	MCB 15-23353	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 294,605
47 RD	PHY 16-07517	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 17,232
47 RD	PHY 16-07648	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 114,485
47 RD	PHY 16-13939	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 121,730
47 RD	PHY 16-20777	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 32,542
47 RD	SES 13-58598	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 50,428
47 RD	SES 15-58661	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 68,526
47 RD	SES 16-25073	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 12,062
47 RD	SES 16-47505	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y				\$ 44,226

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended	
47	RD	SMA 16-41047 TRANSFER	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	Y			\$ 73,018	
47	RD	68D-1094585	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	N	CALIFORNIA INSTITUTE OF TECHNOLOGY	N/A	\$ 27,543	
47	RD	PSU231221	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	N	CALIFORNIA STATE UNIVERSITY, LOS ANGELES	DMR-1523588	\$ 32,368	
47	RD	172914	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	N	DORDT COLLEGE	N/A	\$ 13,914	
47	RD	420-62-25 PROJ GS134579	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	N	IOWA STATE UNIVERSITY	N/A	\$ 30,000	
47	RD	2016-NE-2699	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	N	NANOELECTRONICS RESEARCH CORPORATION	P29819	\$ 28,701	
47	RD	181223 PO081721	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	N	NORTH CAROLINA CENTRAL UNIVERSITY	N/A	\$ 41,009	
47	RD	2012-1067-01 AMEND 4	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	N	NORTH CAROLINA STATE UNIVERSITY	EEC-1160483	\$ 424,059	
47	RD	2012-1067-01 AMEND 4	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	N	NORTH CAROLINA STATE UNIVERSITY	N/A	\$ 115,991	
47	RD	2013-1690-02 MOD 1	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	N	NORTH CAROLINA STATE UNIVERSITY	EEC-1160483	\$ 65,398	
47	RD	60039515/GRT00030866	NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 4,491,532	\$ 544,486,028	N	OHIO STATE UNIVERSITY, THE	N/A	\$ 121,714	
64	RD	VA69D-16-C-0150	DEPARTMENT OF VETERANS AFFAIRS - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 7,500	\$ 544,486,028	Y			\$ 7,500	
66	001		AIR POLLUTION CONTROL PROGRAM SUPPORT	RESEARCH AND DEVELOPMENT	\$ 144,690	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300513281	\$ 144,690	
66	034		SURVEYS, STUDIES, RESEARCH, INVESTIGATIONS, DEMONSTRATIONS, AND SPECIAL PURPOSE ACTIVITIES RELATING TO THE CLEAN AIR ACT	RESEARCH AND DEVELOPMENT	\$ 51,147	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4100074732	\$ 41,148	
66	034		SURVEYS, STUDIES, RESEARCH, INVESTIGATIONS, DEMONSTRATIONS, AND SPECIAL PURPOSE ACTIVITIES RELATING TO THE CLEAN AIR ACT	RESEARCH AND DEVELOPMENT	\$ 51,147	\$ 544,486,028	N	KANSAS STATE UNIVERSITY	N/A	\$ 9,999	
66	419		WATER POLLUTION CONTROL STATE, INTERSTATE, AND TRIBAL PROGRAM SUPPORT	RESEARCH AND DEVELOPMENT	\$ 34,390	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300534408	\$ 34,390	
66	461		REGIONAL WETLAND PROGRAM DEVELOPMENT GRANTS	RESEARCH AND DEVELOPMENT	\$ 116,620	\$ 544,486,028	Y			\$ 112,748	
66	461		REGIONAL WETLAND PROGRAM DEVELOPMENT GRANTS	RESEARCH AND DEVELOPMENT	\$ 116,620	\$ 544,486,028	N	STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION	CD-962843-15	\$ 3,872	
66	466		CHESAPEAKE BAY PROGRAM	RESEARCH AND DEVELOPMENT	\$ 476,253	\$ 544,486,028	Y			\$ 233,018	
66	466		CHESAPEAKE BAY PROGRAM	RESEARCH AND DEVELOPMENT	\$ 476,253	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300536553	\$ 11,971	
66	466		CHESAPEAKE BAY PROGRAM	RESEARCH AND DEVELOPMENT	\$ 476,253	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300538064	\$ 46,997	
66	466		CHESAPEAKE BAY PROGRAM	RESEARCH AND DEVELOPMENT	\$ 476,253	\$ 544,486,028	N	NATIONAL FISH AND WILDLIFE FOUNDATION	FR.2413	\$ 1	
66	466		CHESAPEAKE BAY PROGRAM	RESEARCH AND DEVELOPMENT	\$ 476,253	\$ 544,486,028	N	SUSQUEHANNA RIVER BASIN COMMISSION	N/A	\$ 16,596	
66	469		GREAT LAKES PROGRAM	RESEARCH AND DEVELOPMENT	\$ 24,567	\$ 544,486,028	N	UNIVERSITY OF MINNESOTA	GL-00E01900	\$ 24,567	
66	509		SCIENCE TO ACHIEVE RESULTS (STAR) RESEARCH PROGRAM	RESEARCH AND DEVELOPMENT	\$ 417,377	\$ 544,486,028	Y		\$ 75,855	\$ 417,377	
66	514		SCIENCE TO ACHIEVE RESULTS (STAR) FELLOWSHIP PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,327	\$ 544,486,028	Y			\$ 10,327	
66	605		PERFORMANCE PARTNERSHIP GRANTS	RESEARCH AND DEVELOPMENT	\$ 89,575	\$ 544,486,028	N	MARYLAND DEPARTMENT OF THE ENVIRONMENT	N/A	\$ 89,575	
66	RD	RD 83514201	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 440,262	\$ 544,486,028	Y		\$ 7,933	\$ 47,872	
66	RD	PW2016-007	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 440,262	\$ 544,486,028	N	AMEC FOSTER WHEELER	ENVIRONMENTAL PROTECTION AGENC	\$ 4,677	
66	RD	4100077088	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 440,262	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4100077088	\$ 3,514	
66	RD	4300489658	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 440,262	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300489658	\$ 38,675	\$ 52,975
66	RD	4300507465	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 440,262	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300507465	\$ 99,609	

See notes to schedule of expenditures of federal awards.

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CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
66	RD	4300507713	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 440,262	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300507713	\$ 50,000
66	RD	4300513788	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 440,262	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300513788	\$ 29,938
66	RD	4300526767	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 440,262	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300526767	\$ 39,663
66	RD	4300533338	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 440,262	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300533338	\$ 49,905
66	RD	EP-W-09-028-SITEOP-106 WO 6	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 440,262	\$ 544,486,028	N	MACTEC ENGINEERING AND CONSULTING	N/A	\$ (1)
66	RD	187734	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 440,262	\$ 544,486,028	N	PARTNERSHIP FOR THE DELAWARE ESTUARY	CE99398513	\$ 9,978
66	RD	1120383 TC#34945-04 WA 3-04	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 440,262	\$ 544,486,028	N	TETRA TECH, INC.	EP-C-12-060	\$ 52,132
77	008		U.S. NUCLEAR REGULATORY COMMISSION SCHOLARSHIP AND FELLOWSHIP PROGRAM	RESEARCH AND DEVELOPMENT	\$ 302,488	\$ 544,486,028	Y			\$ 302,488
77	009		U.S. NUCLEAR REGULATORY COMMISSION OFFICE OF RESEARCH FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 145,211	\$ 544,486,028	Y			\$ 145,211
77	RD	NRC-HQ-12-C-04-0086	NUCLEAR REGULATORY COMMISSION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 761,828	\$ 544,486,028	Y			\$ 331,695
77	RD	NRCHQ12C040086/NRCHQ 6016T	NUCLEAR REGULATORY COMMISSION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 761,828	\$ 544,486,028	Y			\$ 251,907
77	RD	NRC-HQ-13-G-38-0003	NUCLEAR REGULATORY COMMISSION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 761,828	\$ 544,486,028	Y			\$ 178,226
81	041		STATE ENERGY PROGRAM	RESEARCH AND DEVELOPMENT	\$ 674,038	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300462077	\$ (928)
81	041		STATE ENERGY PROGRAM	RESEARCH AND DEVELOPMENT	\$ 674,038	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300512830	\$ 149,677
81	041		STATE ENERGY PROGRAM	RESEARCH AND DEVELOPMENT	\$ 674,038	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4300513167	\$ 53,208
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM - ARRA	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	Y			\$ (4,731)
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	Y			\$ 1,559,218
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	ALTEX TECHNOLOGIES	DE-SC0013823	\$ 66,282
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	ARIZONA STATE UNIVERSITY	U.S. DEPARTMENT OF ENERGY	\$ 104,796
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	COLUMBIA UNIVERSITY	DE-SC0016579	\$ 34,576
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	DRS RESEARCH	DE-SC0010164	\$ 108,269
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	GENERAL ELECTRIC	NATIONAL ENERGY TECHNOLOGY LAB	\$ 70,231
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	GEORGIA INSTITUTE OF TECHNOLOGY	DE-SC0012577	\$ 53,029
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	H QUEST VANGUARD, INC.	U.S. DEPARTMENT OF ENERGY	\$ 44,204
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	MIKROS SYSTEMS CORPORATION	DE-SC0010175	\$ 14,638
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	NORTHWESTERN UNIVERSITY	N/A	\$ 4,105
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	OHIO STATE UNIVERSITY, THE	DE-SC0016584	\$ 132,802
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	REACTION ENGINEERING INTERNATIONAL	DE-SC0013217	\$ 72,928
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	RUTGERS UNIVERSITY	DE-SC0001780	\$ 76,687
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	STANFORD UNIVERSITY	DE-SC0005171	\$ 262,830
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	STANFORD UNIVERSITY	DE-SC0016162	\$ 164,141
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	UES, INC.	DE-SC0004356	\$ 2
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	UES, INC.	DE-SC0004356 0004	\$ 35,508
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	UES, INC.	DE-SC0011335	\$ 148,612
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	UES, INC.	DE-SC0013215	\$ 236,152
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	UNIVERSITY OF ARKANSAS	DE-SC0016529	\$ 43,321
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, DAVIS	DE-SC0016605	\$ 26,428
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	UNIVERSITY OF ILLINOIS	DE-SC0010778	\$ 37,648
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	UNIVERSITY OF OKLAHOMA, THE	DE-SC0008811	\$ 17,197

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
81	049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	UNIVERSITY OF TEXAS AT DALLAS, THE	DE-SC0010697		\$ 3,385
81	049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	WASHINGTON UNIVERSITY IN ST. LOUIS	DESC0001035		\$ 14,068
81	049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	WASHINGTON UNIVERSITY IN ST. LOUIS	DE-SC0001035		\$ 110,221
81	049	OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	RESEARCH AND DEVELOPMENT	\$ 10,888,617	\$ 544,486,028	N	WASHINGTON UNIVERSITY IN ST. LOUIS	DE-SC0012722		\$ 36,339
81	086	CONSERVATION RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 1,371,735	\$ 544,486,028	Y			\$ 718,698	\$ 1,325,476
81	086	CONSERVATION RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 1,371,735	\$ 544,486,028	N	FORD MOTOR COMPANY	DE-EE0005764		\$ 24,800
81	086	CONSERVATION RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 1,371,735	\$ 544,486,028	N	MICHIGAN STATE UNIVERSITY	DE-EE0007803		\$ 21,459
81	087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 1,777,994	\$ 544,486,028	Y			\$ 152,820	\$ 1,472,950
81	087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 1,777,994	\$ 544,486,028	N	ANTARES GROUP INCORPORATED	U.S. DEPARTMENT OF ENERGY		\$ 59,361
81	087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 1,777,994	\$ 544,486,028	N	COMPOSITE TECHNOLOGY DEVELOPMENT, INC.	DE-EE0007248		\$ 106,776
81	087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 1,777,994	\$ 544,486,028	N	PROTON ONSITE	DE-EE0006958		\$ 32,106
81	087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 1,777,994	\$ 544,486,028	N	SAPPHIRE ENERGY, INC.	DE-EE0006315		\$ 30,172
81	087	RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 1,777,994	\$ 544,486,028	N	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	DE-EE0006016		\$ 1
81	089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 2,896,240	\$ 544,486,028	Y			\$ 784,681	\$ 2,649,817
81	089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 2,896,240	\$ 544,486,028	N	LIQUID ION SOLUTIONS LLC	DE-FE026464		\$ 236,055
81	089	FOSSIL ENERGY RESEARCH AND DEVELOPMENT	RESEARCH AND DEVELOPMENT	\$ 2,896,240	\$ 544,486,028	N	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	DOE		\$ 10,368
81	117	ENERGY EFFICIENCY AND RENEWABLE ENERGY INFORMATION DISSEMINATION, OUTREACH, TRAINING AND TECHNICAL ANALYSIS/ASSISTANCE	RESEARCH AND DEVELOPMENT	\$ 698,866	\$ 544,486,028	Y			\$ 236,917	\$ 695,899
81	117	ENERGY EFFICIENCY AND RENEWABLE ENERGY INFORMATION DISSEMINATION, OUTREACH, TRAINING AND TECHNICAL ANALYSIS/ASSISTANCE	RESEARCH AND DEVELOPMENT	\$ 698,866	\$ 544,486,028	N	CITIZENS FOR PENNSYLVANIA'S FUTURE	N/A		\$ 2,967
81	121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	RESEARCH AND DEVELOPMENT	\$ 2,557,008	\$ 544,486,028	Y			\$ 734,804	\$ 2,368,704
81	121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	RESEARCH AND DEVELOPMENT	\$ 2,557,008	\$ 544,486,028	N	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	DE-NE0008413		\$ 27,905
81	121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	RESEARCH AND DEVELOPMENT	\$ 2,557,008	\$ 544,486,028	N	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	DE-NE0008416		\$ 59,636
81	121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	RESEARCH AND DEVELOPMENT	\$ 2,557,008	\$ 544,486,028	N	PURDUE UNIVERSITY	DE-NE0000696		\$ 17,437
81	121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	RESEARCH AND DEVELOPMENT	\$ 2,557,008	\$ 544,486,028	N	PURDUE UNIVERSITY	DE-NE0008259		\$ 33,548
81	121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	RESEARCH AND DEVELOPMENT	\$ 2,557,008	\$ 544,486,028	N	RENSSELAER POLYTECHNIC INSTITUTE	DE-NE0008440		\$ 24,073
81	121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	RESEARCH AND DEVELOPMENT	\$ 2,557,008	\$ 544,486,028	N	UNIVERSITY OF MICHIGAN	DE-NE0000639		\$ (22,128)
81	121	NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	RESEARCH AND DEVELOPMENT	\$ 2,557,008	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN - MADISON	DE-NE0008418		\$ 47,833
81	135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	RESEARCH AND DEVELOPMENT	\$ 2,168,395	\$ 544,486,028	Y			\$ 290,553	\$ 1,692,606
81	135	ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	RESEARCH AND DEVELOPMENT	\$ 2,168,395	\$ 544,486,028	N	OCEAN RENEWABLE POWER COMPANY	DE-AR0000658		\$ 475,789
81	RD	DE-AR0000801	DEPARTMENT OF ENERGY - NON-SPECIFIED	\$ 3,761,507	\$ 544,486,028	Y				\$ 144,723
81	RD	DE-EE0006447	DEPARTMENT OF ENERGY - NON-SPECIFIED	\$ 3,761,507	\$ 544,486,028	Y			\$ 74,300	\$ 187,754
81	RD	DE-EE0007625	DEPARTMENT OF ENERGY - NON-SPECIFIED	\$ 3,761,507	\$ 544,486,028	Y			\$ 113,295	\$ 431,878
81	RD	DE-EE0007655	DEPARTMENT OF ENERGY - NON-SPECIFIED	\$ 3,761,507	\$ 544,486,028	Y				\$ 184,764
81	RD	DE-FE0024261	DEPARTMENT OF ENERGY - NON-SPECIFIED	\$ 3,761,507	\$ 544,486,028	Y				\$ 102,280
81	RD	DE-FE0026825 0004	DEPARTMENT OF ENERGY - NON-SPECIFIED	\$ 3,761,507	\$ 544,486,028	Y				\$ 66,273
81	RD	DE-FG02-06ER15803	DEPARTMENT OF ENERGY - NON-SPECIFIED	\$ 3,761,507	\$ 544,486,028	Y				\$ 104,343
81	RD	DE-FG02-93ER40771	DEPARTMENT OF ENERGY - NON-SPECIFIED	\$ 3,761,507	\$ 544,486,028	Y				\$ 48,736
81	RD	189646	DEPARTMENT OF ENERGY - NON-SPECIFIED	\$ 3,761,507	\$ 544,486,028	N	3M	N/A		\$ 21,665
81	RD	4410012550 GTI S602	DEPARTMENT OF ENERGY - NON-SPECIFIED	\$ 3,761,507	\$ 544,486,028	N	AEROJET ROCKETDYNE	N/A		\$ 11,966
81	RD	RHA-7-70083-01	DEPARTMENT OF ENERGY - NON-SPECIFIED	\$ 3,761,507	\$ 544,486,028	N	ALLIANCE FOR SUSTAINABLE ENERGY, LLC	DE-AC36-08GO28308		\$ 4,698

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
81	RD	DE-FE0023663 PSU-001	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	ALTEX TECHNOLOGIES	N/A	\$ 111,929
81	RD	SC-17-442	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	AMES LABORATORY	DE-AC02-07CH11358	\$ 163,090
81	RD	7F-30076	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	ARGONNE NATIONAL LABORATORY	DE-AC02-06CH11357	\$ 28,594
81	RD	163662 AMEND 2	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE ENERGY ALLIANCE, LLC	N/A	\$ 138,076
81	RD	165929 AMEND 1	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE ENERGY ALLIANCE, LLC	DE-AC07-05ID14517	\$ 123,834
81	RD	176960	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE ENERGY ALLIANCE, LLC	DE-AC07-05ID14517	\$ 12,742
81	RD	111923 TASK ORDER 267980	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE MEMORIAL INSTITUTE	DE-AC05-76RL01830	\$ 39,605
81	RD	120237	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE MEMORIAL INSTITUTE	DE-AC07-05ID14517	\$ (4)
81	RD	4000105709 MOD 15	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE MEMORIAL INSTITUTE	DE-AC05-00OR22725	\$ 75,156
81	RD	4000105709 MODIFICATION 13	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE MEMORIAL INSTITUTE	DE-AC05-00OR22725	\$ 8,730
81	RD	4000114140 MODIFICATION 10	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE MEMORIAL INSTITUTE	N/A	\$ (609)
81	RD	4000123466, MOD 10	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE MEMORIAL INSTITUTE	N/A	\$ 5,527
81	RD	B619169	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE MEMORIAL INSTITUTE	DE-AC52-07NA27344	\$ 19,997
81	RD	111923 TASK ORDER 265388	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE PACIFIC NORTHWEST NATIONAL LABORATORY	DE-AC05-76RL01830	\$ 424
81	RD	111923 TASK ORDER 265388	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE PACIFIC NORTHWEST NATIONAL LABORATORY	N/A	\$ 29,016
81	RD	111923 TO 265388 MOD 4	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE PACIFIC NORTHWEST NATIONAL LABORATORY	DE-AC05-76RL01830	\$ 22,722
81	RD	163554	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE PACIFIC NORTHWEST NATIONAL LABORATORY	DE-AC05-76RL01830	\$ 41,279
81	RD	324781 REVISION 3	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE PACIFIC NORTHWEST NATIONAL LABORATORY	DE-AC05-76RL01830	\$ 38,388
81	RD	334640	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE PACIFIC NORTHWEST NATIONAL LABORATORY	DE-AC05-76RL01830	\$ 32,280
81	RD	4000123466	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BATTELLE PACIFIC NORTHWEST NATIONAL LABORATORY	6400012296	\$ 29,732
81	RD	103595	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BECHTEL BETTIS, INC.	U.S. DEPARTMENT OF ENERGY	\$ 42,579
81	RD	C119808 AMENDMENT 1	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BECHTEL PLANT MACHINERY, INC.	DE-NR0000031	\$ 15,792
81	RD	100492	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BETTIS ATOMIC POWER LABORATORY	DE-NR0000031	\$ 51,157
81	RD	270065 AMEND 2	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BROOKHAVEN NATIONAL LABORATORY	DE-AC02-98CH10886	\$ 16,732
81	RD	270065, A01	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BROOKHAVEN NATIONAL LABORATORY	N/A	\$ 11,465
81	RD	300324	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BROOKHAVEN NATIONAL LABORATORY	U.S. DEPARTMENT OF ENERGY	\$ 66,457
81	RD	317797	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	BROOKHAVEN NATIONAL LABORATORY	N/A	\$ 75,370
81	RD	2015-141-12	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	CARDINAL ENGINEERING LLC	N/A	\$ 9,162

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
81	RD	101490 LINE 3	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	KNOLLS ATOMIC POWER LABORATORY	DE-NR0000031	\$ 148,928
81	RD	101490 LINE 4	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	KNOLLS ATOMIC POWER LABORATORY	DE-NR0000031	\$ 81,872
81	RD	7104713	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	LAWRENCE BERKELEY NATIONAL LABORATORY	DE-AC02-05CH11231	\$ 44,151
81	RD	7216964	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	LAWRENCE BERKELEY NATIONAL LABORATORY	DE-AC02-05CH11231	\$ 1,474
81	RD	7216964	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	LAWRENCE BERKELEY NATIONAL LABORATORY	U.S. DEPARTMENT OF ENERGY	\$ 22,470
81	RD	B614063	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	LAWRENCE LIVERMORE NATIONAL LABORATORY	DE-AC52-07NA27344	\$ (283)
81	RD	293402	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	LOS ALAMOS NATIONAL LABORATORY	DE-AC52-06NA25396	\$ 47,562
81	RD	293402 SUBCONTRACT 343839	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	LOS ALAMOS NATIONAL LABORATORY	DE-AC52-06NA25396	\$ 16,041
81	RD	364067 293402	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	LOS ALAMOS NATIONAL LABORATORY	DE-AC52-06NA25396	\$ 55,732
81	RD	ACS-7-70122-01	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	NATIONAL RENEWABLE ENERGY LABORATORY	U.S. DEPARTMENT OF ENERGY	\$ 11,307
81	RD	AFC-5-52004-04	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	NATIONAL RENEWABLE ENERGY LABORATORY	DE-AC36-08GO28308	\$ 2,029
81	RD	AFC-5-52004-04 MODIFICATION 3	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	NATIONAL RENEWABLE ENERGY LABORATORY	DE-AC36-08GO28308	\$ 5,000
81	RD	AGZ-6-62014-01	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	NATIONAL RENEWABLE ENERGY LABORATORY	DE-AC36-08GO28308	\$ 13,988
81	RD	XDI-7-70106-01	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	NATIONAL RENEWABLE ENERGY LABORATORY	DE-AC36-08GO28308 - NREL	\$ 15,668
81	RD	ZAM-0-40876-05	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	NATIONAL RENEWABLE ENERGY LABORATORY	DE-AC36-08GO28308	\$ (359)
81	RD	ZFA-5-52002-01	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	NATIONAL RENEWABLE ENERGY LABORATORY	DE-AC36-08GO28308	\$ 162,191
81	RD	4000145264	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	OAK RIDGE NATIONAL LABORATORY	U.S. DEPARTMENT OF ENERGY	\$ 77,013
81	RD	4000150843	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	OAK RIDGE NATIONAL LABORATORY	U.S. DEPARTMENT OF ENERGY	\$ 30,723
81	RD	4000153016	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	OAK RIDGE NATIONAL LABORATORY	DE-AC05-00OR22725	\$ 45,058
81	RD	4000154163	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	OAK RIDGE NATIONAL LABORATORY	U.S. DEPARTMENT OF ENERGY	\$ 28,818
81	RD	4105-59369 AMENDMENT 02	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	PURDUE UNIVERSITY	DE-NE0000696	\$ 3,390
81	RD	1356879 PO 1725047	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	SANDIA NATIONAL LABORATORIES	N/A	\$ 43,176
81	RD	1356879 TO 1676671	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	SANDIA NATIONAL LABORATORIES	N/A	\$ 34,232
81	RD	1356879 TO 1969551	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	SANDIA NATIONAL LABORATORIES	N/A	\$ 49,015
81	RD	1735699 MASTER 1356879	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	SANDIA NATIONAL LABORATORIES	DE-AC04-94-AL85000	\$ 22,892
81	RD	1744827 MA 1356879	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	SANDIA NATIONAL LABORATORIES	N/A	\$ 21,179
81	RD	775396 1320846	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	SANDIA NATIONAL LABORATORIES	N/A	\$ (13)
81	RD	775396 PO 1513831 REV 3	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	SANDIA NATIONAL LABORATORIES	N/A	\$ 35,000
81	RD	775396 PO 1518242	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	SANDIA NATIONAL LABORATORIES	N/A	\$ 16,239
81	RD	775396 PO 1526522	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	SANDIA NATIONAL LABORATORIES	N/A	\$ 43,093

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THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
81	RD	775396 PO 1578792	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	SANDIA NATIONAL LABORATORIES	N/A	\$ 36,079
81	RD	195333	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	TETRAMER TECHNOLOGIES, LLC	U.S. DEPARTMENT OF ENERGY	\$ 23,828
81	RD	15C1391200	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY	N/A	\$ 96,404
81	RD	A13-0708-S003	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	UNIVERSITY OF TENNESSEE, KNOXVILLE, THE	DE-AC07-05ID14517	\$ 2,699
81	RD	RES1000026 2.651.058.001 101	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	URS CORPORATION	U.S. DEPARTMENT OF ENERGY	\$ 5,424
81	RD	RES1000026 2.651.058.002 104	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	URS CORPORATION	U.S. DEPARTMENT OF ENERGY	\$ 309
81	RD	RES1000026 3.621.054.002 T75	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	URS CORPORATION	N/A	\$ (1)
81	RD	RES1000026 6.670.998.001 103	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	URS CORPORATION	U.S. DEPARTMENT OF ENERGY	\$ 1,000
81	RD	RES1000026 6.670.998.003 102	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	URS CORPORATION	U.S. DEPARTMENT OF ENERGY	\$ 4,330
81	RD	RES1000026 2.600.220.001 T47	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	URS CORPORATION	N/A	\$ (18)
81	RD	134089	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	VOLVO POWERTRAIN NORTH AMERICA	DE-EE0004232	\$ (5,095)
81	RD	111896 ITO 0033 LINE ITEM 1	DEPARTMENT OF ENERGY - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,761,507	\$ 544,486,028	N	WESTINGHOUSE ELECTRIC COMPANY LLC	DE-NE0008222	\$ 660
84	027		SPECIAL EDUCATION GRANTS TO STATES	RESEARCH AND DEVELOPMENT	\$ 484,791	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	062-160042	\$ 7,595
84	229		LANGUAGE RESOURCE CENTERS	RESEARCH AND DEVELOPMENT	\$ 97,972	\$ 544,486,028	Y			\$ 97,972
84	305		EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	RESEARCH AND DEVELOPMENT	\$ 600,548	\$ 544,486,028	Y		\$ 29,401	\$ 78,099
84	305		EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	RESEARCH AND DEVELOPMENT	\$ 600,548	\$ 544,486,028	N	TEXAS A&M UNIVERSITY	R305A150057	\$ 303,851
84	305		EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	RESEARCH AND DEVELOPMENT	\$ 600,548	\$ 544,486,028	N	UNIVERSITY OF VIRGINIA	N/A	\$ 141,745
84	305		EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	RESEARCH AND DEVELOPMENT	\$ 600,548	\$ 544,486,028	N	VIRGINIA COMMONWEALTH UNIVERSITY	R305A110079	\$ (4,161)
84	305		EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	RESEARCH AND DEVELOPMENT	\$ 600,548	\$ 544,486,028	N	VIRGINIA COMMONWEALTH UNIVERSITY	R305A140434	\$ (8,369)
84	305		EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	RESEARCH AND DEVELOPMENT	\$ 600,548	\$ 544,486,028	N	WILLIAM & MARY	R305A160398	\$ 89,383
84	327		SPECIAL EDUCATION EDUCATIONAL TECHNOLOGY MEDIA, AND MATERIALS FOR INDIVIDUALS WITH DISABILITIES	RESEARCH AND DEVELOPMENT	\$ 19,016	\$ 544,486,028	Y			\$ 19,016
84	365		ENGLISH LANGUAGE ACQUISITION STATE GRANTS	RESEARCH AND DEVELOPMENT	\$ 206,215	\$ 544,486,028	Y			\$ 106,225
84	367		SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS	RESEARCH AND DEVELOPMENT	\$ 285,231	\$ 544,486,028	N	NATIONAL WRITING PROJECT	U367D15004	\$ 1,831
84	378		COLLEGE ACCESS CHALLENGE GRANT PROGRAM	RESEARCH AND DEVELOPMENT	\$ 1	\$ 544,486,028	N	PROJECT GRAD USA	N/A	\$ 1
84	411		EDUCATION INNOVATION AND RESEARCH	RESEARCH AND DEVELOPMENT	\$ 657,336	\$ 544,486,028	Y		\$ 631,553	\$ 657,336
84	RD	P015A140138 ACT 3	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 13,596
84	RD	P015A140138 ACTION 4	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 158,661
84	RD	P015B140138	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ (7,500)
84	RD	P015B140138 ACTION 4	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 315,367
84	RD	P042A150744	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 46,172
84	RD	P042A150744-16	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 222,698
84	RD	P042A150955	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 21,422
84	RD	P042A150955 ACTION 2	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 236,826
84	RD	P229A140026-15 ACTION 2	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 22,077
84	RD	R305A140113-15 ACT 2	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 9,149
84	RD	R305A140113-15 ACTION 2	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 473,192

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
84 RD	R305A150391	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y				\$ 208,690
84 RD	R305A150488	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y				\$ 2,835
84 RD	R305A150488 ACTION 1	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y				\$ 742,538
84 RD	R305A160403 ACT 1	DEPARTMENT OF EDUCATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 268,733	\$ 349,489
84 RD	R305A160401	INSTITUTE OF EDUCATION SCIENCES - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 103,964	\$ 407,193
84 RD	R305H150047	INSTITUTE OF EDUCATION SCIENCES - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 83,507	\$ 204,922
84 RD	R324A150126-15A ACTION 2	INSTITUTE OF EDUCATION SCIENCES - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 3,735,302	\$ 544,486,028	Y			\$ 105,500	\$ 307,975
93 061		INNOVATIONS IN APPLIED PUBLIC HEALTH RESEARCH	RESEARCH AND DEVELOPMENT	\$ 71,907	\$ 544,486,028	Y				\$ 71,907
93 077		FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,061,454	\$ 544,486,028	Y			\$ 124,123	\$ 1,097,495
93 077		FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,061,454	\$ 544,486,028	N	VIRGINIA COMMONWEALTH UNIVERSITY	4P50 DA036105-04		\$ 787,546
93 077		FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,061,454	\$ 544,486,028	N	VIRGINIA COMMONWEALTH UNIVERSITY	5 P50DA036105-03		\$ 176,413
93 086		HEALTHY MARRIAGE PROMOTION AND RESPONSIBLE FATHERHOOD GRANTS	RESEARCH AND DEVELOPMENT	\$ 25,931	\$ 544,486,028	N	TEXAS STATE UNIVERSITY	90FM0067-01-00		\$ 14,406
93 086		HEALTHY MARRIAGE PROMOTION AND RESPONSIBLE FATHERHOOD GRANTS	RESEARCH AND DEVELOPMENT	\$ 25,931	\$ 544,486,028	N	TEXAS STATE UNIVERSITY	90FM0067-02-00		\$ 11,525
93 088		ADVANCING SYSTEM IMPROVEMENTS FOR KEY ISSUES IN WOMEN'S HEALTH	RESEARCH AND DEVELOPMENT	\$ 2,500	\$ 544,486,028	N	U.S. COMMITTEE FOR REFUGEES AND IMMIGRANTS	1 ASTWH160047-01-00		\$ 2,500
93 092		AFFORDABLE CARE ACT (ACA) PERSONAL RESPONSIBILITY EDUCATION PROGRAM	RESEARCH AND DEVELOPMENT	\$ 85,397	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	4100070981	\$ 54,779	\$ 85,397
93 103		FOOD AND DRUG ADMINISTRATION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 4,648	\$ 544,486,028	N	UNIVERSITY OF VERMONT, THE	R01FD005686		\$ 4,648
93 110		MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 340,428	\$ 544,486,028	Y			\$ 187,105	\$ 258,790
93 110		MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 340,428	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	5 R40MC26820-03-00		\$ 81,638
93 113		ENVIRONMENTAL HEALTH	RESEARCH AND DEVELOPMENT	\$ 2,122,886	\$ 544,486,028	Y			\$ 212,602	\$ 1,948,829
93 113		ENVIRONMENTAL HEALTH	RESEARCH AND DEVELOPMENT	\$ 2,122,886	\$ 544,486,028	N	BOSTON UNIVERSITY	1R01ES025791-01A1		\$ 91,753
93 113		ENVIRONMENTAL HEALTH	RESEARCH AND DEVELOPMENT	\$ 2,122,886	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, DAVIS	P01ES011269		\$ (278)
93 113		ENVIRONMENTAL HEALTH	RESEARCH AND DEVELOPMENT	\$ 2,122,886	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	R01ES019168		\$ (9)
93 113		ENVIRONMENTAL HEALTH	RESEARCH AND DEVELOPMENT	\$ 2,122,886	\$ 544,486,028	N	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, THE	R01ES020836-05		\$ 51,487
93 116		PROJECT GRANTS AND COOPERATIVE AGREEMENTS FOR TUBERCULOSIS CONTROL PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 4,378	\$ 544,486,028	N	RUTGERS UNIVERSITY	5U52PS004090-05		\$ 4,378
93 121		ORAL DISEASES AND DISORDERS RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,439,071	\$ 544,486,028	Y			\$ 444,852	\$ 1,439,071
93 143		NIEHS SUPERFUND HAZARDOUS SUBSTANCES_ BASIC RESEARCH AND EDUCATION	RESEARCH AND DEVELOPMENT	\$ 52,260	\$ 544,486,028	N	OREGON STATE UNIVERSITY	5P42ES016465-07		\$ 52,260
93 172		HUMAN GENOME RESEARCH	RESEARCH AND DEVELOPMENT	\$ 662,090	\$ 544,486,028	Y			\$ 36,262	\$ 581,192
93 172		HUMAN GENOME RESEARCH	RESEARCH AND DEVELOPMENT	\$ 662,090	\$ 544,486,028	N	GEISINGER HEALTH SYSTEM	1U01HG008679-01		\$ (1,654)
93 172		HUMAN GENOME RESEARCH	RESEARCH AND DEVELOPMENT	\$ 662,090	\$ 544,486,028	N	HUDSONALPHA INSTITUTE FOR BIOTECHNOLOGY	5U54HG006988-04S1		\$ 49,566
93 172		HUMAN GENOME RESEARCH	RESEARCH AND DEVELOPMENT	\$ 662,090	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, SAN DIEGO	5U41HG007517-04		\$ 26,043
93 172		HUMAN GENOME RESEARCH	RESEARCH AND DEVELOPMENT	\$ 662,090	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, SAN DIEGO	5U41HG007517-05		\$ 6,943
93 173		RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS	RESEARCH AND DEVELOPMENT	\$ 468,764	\$ 544,486,028	Y			\$ 178,506	\$ 355,083
93 173		RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS	RESEARCH AND DEVELOPMENT	\$ 468,764	\$ 544,486,028	N	UNIVERSITY OF GEORGIA	5R01DC013904-03		\$ 23,484
93 173		RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS	RESEARCH AND DEVELOPMENT	\$ 468,764	\$ 544,486,028	N	UNIVERSITY OF GEORGIA	5R01DC013904-02		\$ 90,197
93 184		DISABILITIES PREVENTION	RESEARCH AND DEVELOPMENT	\$ 6,781	\$ 544,486,028	N	CHILDREN'S HOSPITAL OF PHILADELPHIA	N/A		\$ 6,781
93 213		RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH	RESEARCH AND DEVELOPMENT	\$ 722,184	\$ 544,486,028	Y				\$ 705,551
93 213		RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH	RESEARCH AND DEVELOPMENT	\$ 722,184	\$ 544,486,028	N	CARNEGIE MELLON UNIVERSITY	5R01AT008685-02		\$ 8,234

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
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FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
93 213		RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH	RESEARCH AND DEVELOPMENT	\$ 722,184	\$ 544,486,028	N	MOUNT SINAI MEDICAL CENTER	4 UH3 AT009149-01		\$ 2,923
93 213		RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH	RESEARCH AND DEVELOPMENT	\$ 722,184	\$ 544,486,028	N	RUTGERS UNIVERSITY	1K01AT008829-01A1		\$ 5,476
93 226		RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES	RESEARCH AND DEVELOPMENT	\$ 888,095	\$ 544,486,028	Y			\$ 230,935	\$ 599,745
93 226		RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES	RESEARCH AND DEVELOPMENT	\$ 888,095	\$ 544,486,028	N	RAND CORPORATION	U19HS024067		\$ 288,350
93 233		NATIONAL CENTER ON SLEEP DISORDERS RESEARCH	RESEARCH AND DEVELOPMENT	\$ 25,171	\$ 544,486,028	Y			\$ 22,648	\$ 25,171
93 242		MENTAL HEALTH RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 4,650,266	\$ 544,486,028	Y			\$ 309,658	\$ 3,876,948
93 242		MENTAL HEALTH RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 4,650,266	\$ 544,486,028	N	COLD SPRING HARBOR LABORATORY	U01MH105971		\$ 85,420
93 242		MENTAL HEALTH RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 4,650,266	\$ 544,486,028	N	GEISINGER HEALTH SYSTEM	1R01MH107431-01		\$ 241,809
93 242		MENTAL HEALTH RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 4,650,266	\$ 544,486,028	N	MASSACHUSETTS GENERAL HOSPITAL	NIH		\$ 62,104
93 242		MENTAL HEALTH RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 4,650,266	\$ 544,486,028	N	UNIVERSITY OF MINNESOTA	3R24MH106049-03S1		\$ 38,832
93 242		MENTAL HEALTH RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 4,650,266	\$ 544,486,028	N	UNIVERSITY OF MINNESOTA	5R24MH106049-02		\$ 6,609
93 242		MENTAL HEALTH RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 4,650,266	\$ 544,486,028	N	UNIVERSITY OF MINNESOTA	5R24MH106049-03		\$ 186,308
93 242		MENTAL HEALTH RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 4,650,266	\$ 544,486,028	N	UNIVERSITY OF ROCHESTER	5R01MH097293-05		\$ 58,279
93 242		MENTAL HEALTH RESEARCH GRANTS	RESEARCH AND DEVELOPMENT	\$ 4,650,266	\$ 544,486,028	N	UNIVERSITY OF ROCHESTER	R01MH097293		\$ 62,176
93 262		OCCUPATIONAL SAFETY AND HEALTH PROGRAM	RESEARCH AND DEVELOPMENT	\$ 416,965	\$ 544,486,028	Y				\$ 56,904
93 262		OCCUPATIONAL SAFETY AND HEALTH PROGRAM	RESEARCH AND DEVELOPMENT	\$ 416,965	\$ 544,486,028	N	BASSETT HEALTHCARE NETWORK	5U54OH007542-15		\$ 37,448
93 262		OCCUPATIONAL SAFETY AND HEALTH PROGRAM	RESEARCH AND DEVELOPMENT	\$ 416,965	\$ 544,486,028	N	BASSETT HEALTHCARE NETWORK	NATIONAL INSTITUTE FOR OCCUPAT		\$ 18,342
93 262		OCCUPATIONAL SAFETY AND HEALTH PROGRAM	RESEARCH AND DEVELOPMENT	\$ 416,965	\$ 544,486,028	N	JOHNS HOPKINS BLOOMBERG SCHOOL OF PUBLIC HEALTH	5T42OH008428-11		\$ 9,955
93 262		OCCUPATIONAL SAFETY AND HEALTH PROGRAM	RESEARCH AND DEVELOPMENT	\$ 416,965	\$ 544,486,028	N	MARSHFIELD CLINIC RESEARCH INSTITUTE	5U54OH009568-08		\$ 19,951
93 262		OCCUPATIONAL SAFETY AND HEALTH PROGRAM	RESEARCH AND DEVELOPMENT	\$ 416,965	\$ 544,486,028	N	RENSSELAER POLYTECHNIC INSTITUTE	1R01OH010165-01A1		\$ 139,190
93 273		ALCOHOL RESEARCH PROGRAMS - ARRA	RESEARCH AND DEVELOPMENT	\$ 2,968,111	\$ 544,486,028	Y			\$ 8,598	\$ 57,594
93 273		ALCOHOL RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 2,968,111	\$ 544,486,028	Y			\$ 668,239	\$ 2,727,770
93 273		ALCOHOL RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 2,968,111	\$ 544,486,028	N	OLD DOMINION UNIVERSITY	1 R01 AA023197-01A1		\$ 6,080
93 273		ALCOHOL RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 2,968,111	\$ 544,486,028	N	OLD DOMINION UNIVERSITY	1R01AA023197-01A1		\$ 50,076
93 273		ALCOHOL RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 2,968,111	\$ 544,486,028	N	UNIVERSITY OF TENNESSEE HEALTH SCIENCE CENTER, THE	1R01AA021951-01A1		\$ 5,423
93 273		ALCOHOL RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 2,968,111	\$ 544,486,028	N	UNIVERSITY OF TENNESSEE HEALTH SCIENCE CENTER, THE	5R01AA021951-03		\$ 29,593
93 273		ALCOHOL RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 2,968,111	\$ 544,486,028	N	WASHINGTON STATE UNIVERSITY	7R21AA024321		\$ 38,275
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 6,646,265	\$ 544,486,028	Y			\$ 1,171,285	\$ 6,075,889
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 6,646,265	\$ 544,486,028	N	DUKE UNIVERSITY	NATIONAL INSTITUTES OF HEALTH		\$ 14,732
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 6,646,265	\$ 544,486,028	N	IOWA STATE UNIVERSITY	4R01DA0137909-15		\$ 55,886
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 6,646,265	\$ 544,486,028	N	IOWA STATE UNIVERSITY	R01DA13709		\$ 23,811
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 6,646,265	\$ 544,486,028	N	NEW YORK UNIVERSITY	1R01DA040480-01A1		\$ 47,712
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 6,646,265	\$ 544,486,028	N	UNIVERSITY OF COLORADO	NATIONAL INSTITUTES OF HEALTH		\$ 135,344
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 6,646,265	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	7R01DA025047		\$ 20,000
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 6,646,265	\$ 544,486,028	N	UNIVERSITY OF MICHIGAN	1R01DA039901-01		\$ 43,765
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 6,646,265	\$ 544,486,028	N	UNIVERSITY OF MICHIGAN	4R01DA001411-42		\$ 34,924
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 6,646,265	\$ 544,486,028	N	UNIVERSITY OF MICHIGAN	5R01DA035183-03		\$ 88,358
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 6,646,265	\$ 544,486,028	N	UNIVERSITY OF MICHIGAN	5R01DA037902-02		\$ 41,398
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 6,646,265	\$ 544,486,028	N	UNIVERSITY OF MICHIGAN	5R01DA037902-03		\$ 29,038
93 286		DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	RESEARCH AND DEVELOPMENT	\$ 1,082,657	\$ 544,486,028	Y			\$ 45,758	\$ 904,876
93 286		DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	RESEARCH AND DEVELOPMENT	\$ 1,082,657	\$ 544,486,028	N	UNIVERSITY OF SOUTHERN CALIFORNIA	5P41E8002182		\$ 30,493

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FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
93 286		DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	RESEARCH AND DEVELOPMENT	\$ 1,082,657	\$ 544,486,028	N	UNIVERSITY OF SOUTHERN CALIFORNIA	5P41EB002182-19		\$ 147,288
93 301		SMALL RURAL HOSPITAL IMPROVEMENT GRANT PROGRAM	RESEARCH AND DEVELOPMENT	\$ 45,455	\$ 544,486,028	Y				\$ 45,455
93 310		TRANS-NIH RESEARCH SUPPORT	RESEARCH AND DEVELOPMENT	\$ 1,503,753	\$ 544,486,028	Y			\$ 15,777	\$ 988,591
93 310		TRANS-NIH RESEARCH SUPPORT	RESEARCH AND DEVELOPMENT	\$ 1,503,753	\$ 544,486,028	N	DUKE CLINICAL RESEARCH INSTITUTE	IU2OD023375-01 REVISED		\$ 31,024
93 310		TRANS-NIH RESEARCH SUPPORT	RESEARCH AND DEVELOPMENT	\$ 1,503,753	\$ 544,486,028	N	HARVARD PILGRIM HEALTH CARE, INC.	1 U01 EB023683-01		\$ 110,223
93 310		TRANS-NIH RESEARCH SUPPORT	RESEARCH AND DEVELOPMENT	\$ 1,503,753	\$ 544,486,028	N	NEW YORK INSTITUTE OF TECHNOLOGY	IU18EB021789-01		\$ 5,296
93 310		TRANS-NIH RESEARCH SUPPORT	RESEARCH AND DEVELOPMENT	\$ 1,503,753	\$ 544,486,028	N	NEW YORK INSTITUTE OF TECHNOLOGY	3 U18 EB021789-02S1		\$ 3,674
93 310		TRANS-NIH RESEARCH SUPPORT	RESEARCH AND DEVELOPMENT	\$ 1,503,753	\$ 544,486,028	N	NEW YORK INSTITUTE OF TECHNOLOGY	5 U18 EB021789-02		\$ 56,930
93 310		TRANS-NIH RESEARCH SUPPORT	RESEARCH AND DEVELOPMENT	\$ 1,503,753	\$ 544,486,028	N	NEW YORK UNIVERSITY	IUG30D023332-01		\$ 110,984
93 310		TRANS-NIH RESEARCH SUPPORT	RESEARCH AND DEVELOPMENT	\$ 1,503,753	\$ 544,486,028	N	UNIVERSITY OF OREGON	IUG3OD023389		\$ 197,031
93 343		PUBLIC HEALTH SERVICE EVALUATION FUNDS	RESEARCH AND DEVELOPMENT	\$ 18,146	\$ 544,486,028	N	ETR ASSOCIATES	U.S. DEPARTMENT OF HEALTH AND		\$ 18,146
93 350		NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 5,045,155	\$ 544,486,028	Y				\$ 4,944,218
93 350		NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	RESEARCH AND DEVELOPMENT	\$ 5,045,155	\$ 544,486,028	N	UNIVERSITY OF PENNSYLVANIA	IUL1TR001878-01		\$ 18,996
93 351		RESEARCH INFRASTRUCTURE PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 569,833	\$ 544,486,028	Y			\$ 36,905	\$ 553,978
93 351		RESEARCH INFRASTRUCTURE PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 569,833	\$ 544,486,028	N	ACTUATED MEDICAL, INC.	1R44OD023024-01		\$ 12,032
93 351		RESEARCH INFRASTRUCTURE PROGRAMS	RESEARCH AND DEVELOPMENT	\$ 569,833	\$ 544,486,028	N	ACTUATED MEDICAL, INC.	NATIONAL INSTITUTES OF HEALTH		\$ 3,823
93 361		NURSING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 644,012	\$ 544,486,028	Y			\$ 97,665	\$ 459,812
93 361		NURSING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 644,012	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	R01NR015982	\$ 35,260	\$ 167,097
93 361		NURSING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 644,012	\$ 544,486,028	N	UNIVERSITY OF MIAMI	5R01NR014851-03		\$ 6,035
93 361		NURSING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 644,012	\$ 544,486,028	N	YALE UNIVERSITY	1R01NR016191-02		\$ 11,068
93 393		CANCER CAUSE AND PREVENTION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,821,166	\$ 544,486,028	Y			\$ 71,158	\$ 1,616,674
93 393		CANCER CAUSE AND PREVENTION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,821,166	\$ 544,486,028	N	NORTHWESTERN UNIVERSITY	R21CA182725		\$ 362
93 393		CANCER CAUSE AND PREVENTION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,821,166	\$ 544,486,028	N	OHIO STATE UNIVERSITY, THE	U01CA188250		\$ 16,761
93 393		CANCER CAUSE AND PREVENTION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,821,166	\$ 544,486,028	N	UNIVERSITY OF ILLINOIS	1R01CA172726-01A1		\$ 13,863
93 393		CANCER CAUSE AND PREVENTION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,821,166	\$ 544,486,028	N	UNIVERSITY OF VIRGINIA	N/A		\$ 19,150
93 393		CANCER CAUSE AND PREVENTION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,821,166	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN	5P01CA180945-03		\$ 44,537
93 393		CANCER CAUSE AND PREVENTION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,821,166	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN - MADISON	5P01CA180945-02		\$ 28,544
93 393		CANCER CAUSE AND PREVENTION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,821,166	\$ 544,486,028	N	WASHINGTON UNIVERSITY IN ST. LOUIS	1 U01 CA20060-01		\$ 9,369
93 393		CANCER CAUSE AND PREVENTION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,821,166	\$ 544,486,028	N	WASHINGTON UNIVERSITY IN ST. LOUIS	5U01CA20060-02		\$ 71,906
93 394		CANCER DETECTION AND DIAGNOSIS RESEARCH	RESEARCH AND DEVELOPMENT	\$ 363,466	\$ 544,486,028	Y			\$ 24,679	\$ 169,997
93 394		CANCER DETECTION AND DIAGNOSIS RESEARCH	RESEARCH AND DEVELOPMENT	\$ 363,466	\$ 544,486,028	N	NORTHWESTERN UNIVERSITY	2R01CA154908-06A1		\$ 193,469
93 395		CANCER TREATMENT RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,196,818	\$ 544,486,028	Y			\$ 29,772	\$ 714,481
93 395		CANCER TREATMENT RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,196,818	\$ 544,486,028	N	JOHN WAYNE CANCER INSTITUTE AT PROVIDENCE SAINT JOHN'S HEALTH CENTER	P01 CA029605		\$ 519
93 395		CANCER TREATMENT RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,196,818	\$ 544,486,028	N	MEDICAL UNIVERSITY OF SOUTH CAROLINA, THE	1 P01 CA203628-01		\$ 214,457
93 395		CANCER TREATMENT RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,196,818	\$ 544,486,028	N	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER, THE	N/A		\$ 170,043
93 395		CANCER TREATMENT RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,196,818	\$ 544,486,028	N	UNIVERSITY OF VIRGINIA	5P01CA171983-04		\$ 804,343
93 395		CANCER TREATMENT RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,196,818	\$ 544,486,028	N	UNIVERSITY OF VIRGINIA	7P01CA17193-03		\$ 54,866
93 395		CANCER TREATMENT RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,196,818	\$ 544,486,028	N	UNIVERSITY OF VIRGINIA	7P01CA171983-03	\$ 84,669	\$ 197,990
93 395		CANCER TREATMENT RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,196,818	\$ 544,486,028	N	WASHINGTON STATE UNIVERSITY	4R01CA164366-05		\$ 40,119
93 396		CANCER BIOLOGY RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,590,025	\$ 544,486,028	Y				\$ 1,165,093
93 396		CANCER BIOLOGY RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,590,025	\$ 544,486,028	N	GEORGE WASHINGTON UNIVERSITY, THE	R01CA169070		\$ 7,730

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
93 396		CANCER BIOLOGY RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,590,025	\$ 544,486,028	N	LOMA LINDA UNIVERSITY	R01CA209829		\$ 166,564
93 396		CANCER BIOLOGY RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,590,025	\$ 544,486,028	N	UNIVERSITY OF MISSOURI	7R01CA164335-05		\$ 25,988
93 396		CANCER BIOLOGY RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,590,025	\$ 544,486,028	N	UNIVERSITY OF VIRGINIA	1R01CA178393-01A1		\$ 205,703
93 396		CANCER BIOLOGY RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,590,025	\$ 544,486,028	N	UNIVERSITY OF VIRGINIA	5 R01 CA098472-13		\$ 18,950
93 396		CANCER BIOLOGY RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,590,025	\$ 544,486,028	N	UNIVERSITY OF VIRGINIA	5R01CA018138-38		\$ (1)
93 396		CANCER BIOLOGY RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,590,025	\$ 544,486,028	N	UNIVERSITY OF VIRGINIA	5R01CA098472-12		\$ (2)
93 397		CANCER CENTERS SUPPORT GRANTS	RESEARCH AND DEVELOPMENT	\$ 89,993	\$ 544,486,028	Y			\$ 17,217	\$ 61,398
93 397		CANCER CENTERS SUPPORT GRANTS	RESEARCH AND DEVELOPMENT	\$ 89,993	\$ 544,486,028	N	UNIVERSITY OF KENTUCKY	5 U54 CA153604-05	\$ 2,922	\$ 28,595
93 398		CANCER RESEARCH MANPOWER	RESEARCH AND DEVELOPMENT	\$ 332,565	\$ 544,486,028	Y				\$ 236,237
93 398		CANCER RESEARCH MANPOWER	RESEARCH AND DEVELOPMENT	\$ 332,565	\$ 544,486,028	N	VANDERBILT UNIVERSITY	5K07CA172294-02		\$ (1,570)
93 398		CANCER RESEARCH MANPOWER	RESEARCH AND DEVELOPMENT	\$ 332,565	\$ 544,486,028	N	VANDERBILT UNIVERSITY	6 K07 CA172294-04		\$ 1,014
93 433		ACL NATIONAL INSTITUTE ON DISABILITY, INDEPENDENT LIVING, AND REHABILITATION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,025,851	\$ 544,486,028	Y			\$ 627,765	\$ 1,025,851
93 575		CHILD CARE AND DEVELOPMENT BLOCK GRANT	RESEARCH AND DEVELOPMENT	\$ 1,104,472	\$ 544,486,028	N	CHILD CARE CONSULTANTS, INC.	N/A		\$ 17,227
93 600		HEAD START	RESEARCH AND DEVELOPMENT	\$ 6,950	\$ 544,486,028	N	COMMUNITY SERVICES FOR CHILDREN	03HP0008-01-03		\$ 6,950
93 837		CARDIOVASCULAR DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,344,315	\$ 544,486,028	Y			\$ 2,404,950	\$ 8,905,180
93 837		CARDIOVASCULAR DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,344,315	\$ 544,486,028	N	AFASCI, INC.	5R42HL084990-03		\$ 6,576
93 837		CARDIOVASCULAR DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,344,315	\$ 544,486,028	N	BRIGHAM AND WOMEN'S HOSPITAL	NATIONAL INSTITUTES OF HEALTH		\$ 845
93 837		CARDIOVASCULAR DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,344,315	\$ 544,486,028	N	CHILDREN'S HOSPITAL OF PHILADELPHIA	N/A		\$ 15,933
93 837		CARDIOVASCULAR DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,344,315	\$ 544,486,028	N	MINNETRONIX, INC.	5R44HL108415-03		\$ 81,967
93 837		CARDIOVASCULAR DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,344,315	\$ 544,486,028	N	UNIVERSITY OF DELAWARE	1R01HL128388-01A1		\$ 69,931
93 837		CARDIOVASCULAR DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,344,315	\$ 544,486,028	N	UNIVERSITY OF FLORIDA	5 U01 HL119178-03		\$ 19,531
93 837		CARDIOVASCULAR DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,344,315	\$ 544,486,028	N	UNIVERSITY OF FLORIDA	U01 HL119178-04		\$ 29,037
93 837		CARDIOVASCULAR DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,344,315	\$ 544,486,028	N	UNIVERSITY OF MICHIGAN	U01 HL094345		\$ 1,524
93 837		CARDIOVASCULAR DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,344,315	\$ 544,486,028	N	UNIVERSITY OF MINNESOTA	1R01HL130099-01A1		\$ 47,262
93 837		CARDIOVASCULAR DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,344,315	\$ 544,486,028	N	UNIVERSITY OF TEXAS AT ARLINGTON, THE	R01HL118498		\$ 141,605
93 838		LUNG DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,492,727	\$ 544,486,028	Y			\$ 644,505	\$ 2,405,355
93 838		LUNG DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,492,727	\$ 544,486,028	N	BOSTON CHILDREN'S HOSPITAL	1U01HL107681-02		\$ 15,220
93 838		LUNG DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,492,727	\$ 544,486,028	N	SEATTLE CHILDREN'S HOSPITAL	1U01HL114623-01A1		\$ 20,988
93 838		LUNG DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,492,727	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	R01HL114484		\$ 1,768
93 838		LUNG DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,492,727	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	1 U01 HL128954-01		\$ 773
93 838		LUNG DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,492,727	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	5 U01 HL123020-02		\$ 4,279
93 838		LUNG DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,492,727	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	5U01HL123009-02		\$ 22,130
93 838		LUNG DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,492,727	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	5U01HL123009-03		\$ 10,774
93 838		LUNG DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,492,727	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	5U01HL128954-02		\$ 11,440
93 846		ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,734,409	\$ 544,486,028	Y			\$ 273,716	\$ 2,590,385
93 846		ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,734,409	\$ 544,486,028	N	UNIVERSITY OF DELAWARE	5R21AR067390-02		\$ 33,562
93 846		ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 2,734,409	\$ 544,486,028	N	VIRGINIA COMMONWEALTH UNIVERSITY	7R01AR068132-17		\$ 110,462
93 847		DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	Y			\$ 540,371	\$ 7,442,478
93 847		DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	AUGUSTA UNIVERSITY	2U24 DK076169-11		\$ 48,165
93 847		DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	AUGUSTA UNIVERSITY	2U24DK076169-11		\$ 19,820
93 847		DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	AUGUSTA UNIVERSITY	N/A		\$ 30,254
93 847		DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	CHILDREN'S HOSPITAL OF PHILADELPHIA	2R01DK054937-18		\$ 115,518
93 847		DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	GEORGE WASHINGTON UNIVERSITY, THE	N/A		\$ 40,694

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
93	847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	5 U01 DK062429-16		\$ 17,861
93	847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	RQ2687771		\$ 36,017
93	847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	NORTHWESTERN UNIVERSITY	4R01DK097364-05		\$ 60,913
93	847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	5R01DK098233-02		\$ 6,790
93	847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	UNIVERSITY OF CONNECTICUT	R01-DK103663		\$ 79,052
93	847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, THE	U01DK092239		\$ 7,819
93	847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	UNIVERSITY OF PENNSYLVANIA	5 U01 DK106892-02		\$ 60,226
93	847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	UNIVERSITY OF SOUTH FLORIDA	1UC4DK097835-01		\$ 1,701
93	847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	UNIVERSITY OF SOUTHERN CALIFORNIA	5 R01 DK098233-03		\$ 58,734
93	847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	UNIVERSITY OF TEXAS AT SAN ANTONIO, THE	1R01DK108185-01		\$ 35,137
93	847	DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 8,136,170	\$ 544,486,028	N	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO, THE	2R25DK078381-11		\$ 12,119
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	Y			\$ 330,326	\$ 5,212,829
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	N	AUGUSTA UNIVERSITY	1R01NS090083-01A1		\$ 448
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	N	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	1R01NS096053-01A1		\$ 2,031
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	N	FLORIDA ATLANTIC UNIVERSITY	7R15NS080155-02		\$ 25,000
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	N	GLADSTONE INSTITUTES	4R01NS083390-04		\$ 24,000
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	N	GLADSTONE INSTITUTES	NATIONAL INSTITUTES OF HEALTH		\$ 18,168
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, LOS ANGELES	1R21NS090027-01		\$ 80,356
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, SAN DIEGO	1U01NS087964-01A1		\$ 16,180
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, SAN DIEGO	5U01NS087964-02		\$ 58,752
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	N	UNIVERSITY OF PENNSYLVANIA	1-U01-NS-094340-01		\$ 12,769
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	N	UNIVERSITY OF PENNSYLVANIA	5U01NS094340-02		\$ 90,317
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	1R01NS096755-01		\$ 40,107
93	853	EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	RESEARCH AND DEVELOPMENT	\$ 5,583,256	\$ 544,486,028	N	UNIVERSITY OF ROCHESTER MEDICAL CENTER	5 U01 NS061799-02		\$ 2,299
93	855	ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	Y			\$ 1,867,318	\$ 12,052,388
93	855	ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	ACTUATED MEDICAL, INC.	2R44A1080335-04		\$ 23,365
93	855	ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	BOSTON CHILDREN'S HOSPITAL	1 U01 A1126614-01		\$ 442,705
93	855	ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	CHILDREN'S HOSPITAL OF PHILADELPHIA	5R01A1113286-04		\$ 49,791
93	855	ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	CORNELL UNIVERSITY	R01A1092571		\$ 4,967
93	855	ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	GENEFLUIDICS, INC.	5R01A1117059-02		\$ 206,139
93	855	ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	HARVARD UNIVERSITY	SU19A1109764-03		\$ 109,843
93	855	ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	1R01A1117032-01		\$ 36,369
93	855	ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	1R21A1121768-01A1		\$ 19,005
93	855	ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	2U41HG00620		\$ 453,301

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
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CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	2U41HG006620-05		\$ 349,198
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	MARS, INC.	N/A		\$ 2,999
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	MICROBIOTIX, INC.	R43 A113993		\$ 7,586
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	NATIONAL JEWISH HEALTH	5U01 A1097073-03		\$ 5,752
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	NATIONAL JEWISH HEALTH	U01 A1097073-04		\$ 62,215
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	NEW YORK UNIVERSITY	5U19A1089676-04		\$ 537
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	NEW YORK UNIVERSITY	5U19A1089676-06		\$ 100,574
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	RUTGERS UNIVERSITY	1 R01 A1091985-01A1		\$ (1,415)
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA	1UM1A1110498-02		\$ 15,615
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, SAN DIEGO	2R01A1090141-05		\$ 63,098
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	UNIVERSITY OF KENTUCKY	5 R21 A1108260-02		\$ 44,276
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	UNIVERSITY OF MICHIGAN	1R01A1110780-01A1		\$ 194,343
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, THE	1R01A121558-01		\$ 19,810
93 855		ALLERGY AND INFECTIOUS DISEASES RESEARCH	RESEARCH AND DEVELOPMENT	\$ 14,374,708	\$ 544,486,028	N	UNIVERSITY OF ROCHESTER	5R01A1067391-08		\$ 76,470
93 857		MEASURING INTEROPERABILITY PROGRESS THROUGH INDIVIDUALS' ACCESS AND USE OF THE ELECTRONIC HEALTH DATA	RESEARCH AND DEVELOPMENT	\$ 103,856	\$ 544,486,028	N	UNIVERSITY OF TEXAS AT AUSTIN, THE	1R01HL129077-01A1		\$ 103,856
93 858		NATIONAL COLLABORATION TO SUPPORT HEALTH, WELLNESS AND ACADEMIC SUCCESS OF SCHOOL-AGE CHILDREN	RESEARCH AND DEVELOPMENT	\$ 40,069	\$ 544,486,028	N	UNIVERSITY OF GEORGIA	5U01GM11074403		\$ 40,069
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	Y			\$ 987,178	\$ 12,182,263
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	ACTUATED MEDICAL, INC.	NATIONAL INSTITUTES OF HEALTH		\$ 19,368
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	ARIZONA STATE UNIVERSITY	1R01GM122082-01		\$ 89,719
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	ATOPTIX, LLC	1R43GM113563-01		\$ 44,213
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	CARNEGIE MELLON UNIVERSITY	R01GM114311		\$ 89,434
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	5R01 GM09973-03		\$ 1,337
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	CORNELL UNIVERSITY	N/A		\$ 5,250
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	DUKE UNIVERSITY	7R01GM112048-03		\$ 12,415
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	TEMPLE UNIVERSITY	1R01GM117907-01		\$ 14,511
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, LOS ANGELES	5R01GM115833-02		\$ 138,021
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	UNIVERSITY OF FLORIDA	R01 GM059969		\$ 144,997
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	UNIVERSITY OF MIAMI	1R01GM105004-01		\$ 64,921
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	UNIVERSITY OF MICHIGAN	5P50GM103297-04		\$ 197,746
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	1R01GM101197-01A1-02		\$ 13,653
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 13,194,842	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	2R01GM095566-06		\$ 12,851
93 865		CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	Y			\$ 1,411,438	\$ 7,968,701
93 865		CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	ACTUATED MEDICAL, INC.	1R41HD088139-01		\$ 41,261
93 865		CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	ACTUATED MEDICAL, INC.	NATIONAL INSTITUTES OF HEALTH		\$ 9,703
93 865		CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	4R01HD069431-05		\$ 89,881
93 865		CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	GENEFUIDICS, INC.	1R44HD084033-01		\$ 2,000
93 865		CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	5P01HD078233-02		\$ 331,001
93 865		CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	2R01HD038384-16		\$ 70,862
93 865		CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	N/A		\$ 39,421

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	NEW YORK UNIVERSITY	4U01HD076595-04		\$ 46,987
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	NEW YORK UNIVERSITY	5U01HD076595-03		\$ 18,898
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	NEW YORK UNIVERSITY	F4330-03 A01		\$ 245,962
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	NEW YORK UNIVERSITY	N/A		\$ 26,034
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	NEW YORK UNIVERSITY	NATIONAL INSTITUTES OF HEALTH		\$ 37,411
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	PRINCETON UNIVERSITY	1 R01 HD0765920-03		\$ 2,278
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	PRINCETON UNIVERSITY	5R01HD076592-04		\$ 19,467
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	RTI INTERNATIONAL	R21HD079524		\$ 18,773
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	STONY BROOK UNIVERSITY	4R01HD073352-04		\$ 161,498
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	THOMAS JEFFERSON UNIVERSITY	1R01 HD086911-01A1		\$ 36,237
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, LOS ANGELES	5R01HD062547-05		\$ 4,573
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, THE	1R01HD080786		\$ 512
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, THE	5R01HD080786-03		\$ 90,441
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	UNIVERSITY OF OREGON	R56HD042608		\$ 19,400
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	UNIVERSITY OF PENNSYLVANIA	5R01HD069321-05		\$ 2
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN - MADISON	7R01HD081361-02		\$ 204,724
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	VANDERBILT UNIVERSITY	5U01HD076733-02		\$ 343
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	VIRGINIA COMMONWEALTH UNIVERSITY	4R01HD073555-05		\$ 93,084
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	YALE UNIVERSITY	5U01HD055925-08		\$ 57,806
93	865	CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	RESEARCH AND DEVELOPMENT	\$ 9,721,552	\$ 544,486,028	N	YALE UNIVERSITY	5U01HD055925-09		\$ 84,292
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	Y			\$ 277,575	\$ 2,675,837
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	BETH ISRAEL DEACONESS MEDICAL CENTER	5R01AG030618-06		\$ 49,269
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	BETH ISRAEL DEACONESS MEDICAL CENTER	R01AG030618		\$ 135,674
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	ELON UNIVERSITY	1R15AG052903-01		\$ 25,372
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	HEBREW REHABILITATION CENTER	R24AG054259		\$ 19,657
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	1R21AG050072-01A1		\$ 86,845
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	IOWA STATE UNIVERSITY	1 R01 AG049416		\$ 44,827
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	KLEIN BUENDEL, INC.	2R24AG049750-02		\$ 99,334
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	KLEIN BUENDEL, INC.	R42AG049570		\$ 265,034
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	MOBILE SLEEP TECHNOLOGIES LLC	1 R43 AG056250-01		\$ 10,910
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	UNIVERSITY OF KENTUCKY	4R01AG026307-10		\$ 32,806
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	R01AG050516		\$ 25,961
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	R01-AG050516-01 A 1		\$ 95,823

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	UNIVERSITY OF SOUTHERN CALIFORNIA	R56AG037985		\$ 16,775
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	UNIVERSITY OF TEXAS AT AUSTIN, THE	1R01AG049735		\$ 109,588
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN - MADISON	1U19AG051426-01A1		\$ 217,567
93	866	AGING RESEARCH	RESEARCH AND DEVELOPMENT	\$ 3,991,151	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN - MADISON	P01AG020166	\$ 4,960	\$ 79,872
93	867	VISION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,492,167	\$ 544,486,028	Y			\$ 582,861	\$ 1,432,190
93	867	VISION RESEARCH	RESEARCH AND DEVELOPMENT	\$ 1,492,167	\$ 544,486,028	N	UNIVERSITY OF MICHIGAN	5R01EY023725-03		\$ 59,977
93	918	GRANTS TO PROVIDE OUTPATIENT EARLY INTERVENTION SERVICES WITH RESPECT TO HIV DISEASE	RESEARCH AND DEVELOPMENT	\$ 505,629	\$ 544,486,028	Y			\$ 12,327	\$ 505,629
93	928	SPECIAL PROJECTS OF NATIONAL SIGNIFICANCE	RESEARCH AND DEVELOPMENT	\$ 188,710	\$ 544,486,028	Y			\$ 30,132	\$ 188,710
93	936	NATIONAL INSTITUTES OF HEALTH ACQUIRED IMMUNODEFICIENCY SYNDROME RESEARCH LOAN REPAYMENT PROGRAM	RESEARCH AND DEVELOPMENT	\$ 26,850	\$ 544,486,028	Y				\$ 26,850
93	959	BLOCK GRANTS FOR PREVENTION AND TREATMENT OF SUBSTANCE ABUSE	RESEARCH AND DEVELOPMENT	\$ 1,308,556	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	23468		\$ 74,205
93	959	BLOCK GRANTS FOR PREVENTION AND TREATMENT OF SUBSTANCE ABUSE	RESEARCH AND DEVELOPMENT	\$ 1,308,556	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	26796		\$ 1,234,351
93	989	INTERNATIONAL RESEARCH AND RESEARCH TRAINING	RESEARCH AND DEVELOPMENT	\$ 393,436	\$ 544,486,028	Y			\$ 140,400	\$ 269,733
93	RD 8901210917	CENTERS FOR DISEASE CONTROL AND PREVENTION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	CHILDREN'S HOSPITAL OF PHILADELPHIA	5N27DD001155-02-00		\$ 22,849
93	RD 821051 PO 533514	CENTERS FOR DISEASE CONTROL AND PREVENTION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	RUTGERS UNIVERSITY	CENTERS FOR DISEASE CONTROL AN		\$ 5,183
93	RD BIQSFP-COG AALL113111XS1	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	CHILDREN'S HOSPITAL OF PHILADELPHIA	U10 CA98543-08		\$ 76,390
93	RD HHSN-2752010000031 STUDY5191	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	DUKE CLINICAL RESERCH INSTITUTE	HHSN-2752010000031		\$ 9,342
93	RD 146587	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	EMMES CORPORATION, THE	1U01NS026835-01A1		\$ 181
93	RD W81XWH-10-2-0090	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	W81XWH-10-2-0090		\$ 36,649
93	RD LEHIGH SUBAWARD 542835-78001	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	LEHIGH UNIVERSITY	7R01HD068594		\$ 19,906
93	RD 4/1/2016-3/31/2017	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	TOBACCO CENTERS OF REGULATORY SCIENCE	P50 DA036107		\$ 14,950
93	RD 6/1/2016-5/31/2017	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	TOBACCO CENTERS OF REGULATORY SCIENCE	P50 DA036107		\$ 2,851
93	RD 8/1/2016-7/31/2017	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	TOBACCO CENTERS OF REGULATORY SCIENCE	P50 DA036107		\$ (15,001)
93	RD 201401968-01	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, DAVIS	IHS-1310-07894		\$ 53,801
93	RD 2014-07266-01-00	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF ILLINOIS	1R21CA195543-01		\$ 49,268
93	RD QB8763950	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF KANSAS MEDICAL CENTER	CER-1306-02496		\$ 5,004
93	RD 0049450 (711300-3) 2016113684	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	OBS-1505-30683		\$ 1,759
93	RD 2015686478-1	DEPARTMENT OF HEALTH AND HUMAN DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	WORLD HEALTH ORGANIZATION	2016/661660-2		\$ 24,949
93	RD 200-2015-88062	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 298,693
93	RD HHSP233201750005A LINE ITEM #1	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 313,980
93	RD 23468	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	COMMONWEALTH OF PENNSYLVANIA	23468		\$ 27,489
93	RD HHSF2323201610405P	FOOD AND DRUG ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 45,656
93	RD 3209610517 PO#962070-RSUB	HEALTH RESOURCES AND SERVICES ADMINISTRATION - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	CHILDREN'S HOSPITAL OF PHILADELPHIA	HEALTH RESOURCES AND SERVICES		\$ 58,611
93	RD 1 DPI HD086071-01	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 73,659

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
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CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
93 RD	1 P50 DA036107-01	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 12,436
93 RD	1 R01 DK102624-01	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 164,327
93 RD	1 R01 GM114547-01	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 34,035
93 RD	1 R01 GM117014-01	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 21,402
93 RD	1 R01 HD074807-01A1	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y			\$ 147,305	\$ 487,390
93 RD	1 R01 HD084476-01A1	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 189,983
93 RD	1 R01 HD087266-01	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 139,212
93 RD	1 R01 HD088448-01	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y			\$ 27,550	\$ 712,526
93 RD	1 R01 HL127316-01	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 48,488
93 RD	1 R01 HL131921-01	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 158,916
93 RD	1 R03 CA201951-01	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 33,995
93 RD	1 R03 DA035929-01A1	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 17,419
93 RD	1 R21 CA181962-01A1	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 17,379
93 RD	1 R21 CA196924-01A1	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 57,180
93 RD	1 U34 AR067392-01	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y			\$ 164,462	\$ 270,001
93 RD	187963	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 55,913
93 RD	1-H97HA28893-01-00	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y			\$ 19,064	\$ 48,673
93 RD	2 R01 A1045818-16A1	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y			\$ 1,848	\$ 89,337
93 RD	2 R01 GM047477-21A1	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 64,042
93 RD	2 R01 GM058672-14	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 18,587
93 RD	2 R01 GM058672-18A1	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 308,295
93 RD	200-2016-90385	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 165,779
93 RD	200-2016-91953	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 183,884
93 RD	211-2011-41138	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 40,599
93 RD	4 F32 NR014777-03	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 14,149
93 RD	4 P50 DA036107-04	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y			\$ 809,395	\$ 3,758,669
93 RD	4 R01 CA167535-04	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 61,394
93 RD	4 R01 HD072468-05	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y			\$ 63,172	\$ 424,184
93 RD	4 R24 HD041025-15	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 2,479
93 RD	4 U10 HD038992-14	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y			\$ 100,265	\$ 365,627
93 RD	4/15/2017-5/31/2018	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 13,251
93 RD	5 R01 HL119245-04	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y			\$ 84,341	\$ 206,578
93 RD	7 R01 CA172169-04	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y			\$ 186,916	\$ 414,333
93 RD	7 R01 DA017949-11	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 52,602
93 RD	7 R01 DA034618-04	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y			\$ 58,367	\$ 58,447
93 RD	7/1/2016-6/30/2017	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y			\$ 100,295	\$ 1,486,292
93 RD	8 UL1 TR000127-02	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 745,951
93 RD	HHSN27220100000201	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 367,858
93 RD	K01 AA019447	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 89,163
93 RD	P50DA039838	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	Y				\$ 11,513
93 RD	310567	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	ALBERT EINSTEIN COLLEGE OF MEDICINE	R01NS082432		\$ 5,489
93 RD	310684 PO P0510122	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	ALBERT EINSTEIN COLLEGE OF MEDICINE	NATIONAL INSTITUTES OF HEALTH		\$ 40,399
93 RD	PO594759/PO594761/PO594964	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	ALBERT EINSTEIN COLLEGE OF MEDICINE	NATIONAL INSTITUTES OF HEALTH		\$ 240,575
93 RD	ATHN2015002-HCT5	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	AMERICAN THROMBOSIS & HEMOSTASIS NETWORK	NATIONAL INSTITUTES OF HEALTH		\$ 795
93 RD	RSTFD0000710305	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	BOSTON CHILDREN'S HOSPITAL	5R01HD085853-02		\$ 67,296
93 RD	00000543	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	BROWN UNIVERSITY	5R01ES020871-05		\$ 56,811
93 RD	1090423-352129 AMEND 1	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	CARNEGIE MELLON UNIVERSITY	1R21AT008493-01A1		\$ 7,092
93 RD	5/1/2017-4/30/2018	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	CLEVELAND CLINIC FOUNDATION	NATIONAL INSTITUTES OF HEALTH		\$ 40,988
93 RD	560-SUB	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	CLEVELAND CLINIC FOUNDATION	R01 CA169117		\$ (1,655)
93 RD	672-SUB	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	CLEVELAND CLINIC FOUNDATION	4 R01 CA169117-04		\$ 206,308

See notes to schedule of expenditures of federal awards.

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CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
93	RD	225492-NICHD-2016-SAP3-OPPORT6	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	DUKE CLINICAL RESERCH INSTITUTE	HHSN-2752010000031	\$ 1,091
93	RD	HHSN27500042 HHSN2752010000031	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	DUKE CLINICAL RESERCH INSTITUTE	NATIONAL INSTITUTES OF HEALTH	\$ 24,948
93	RD	HHSN2752010000031	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	DUKE CLINICAL RESERCH INSTITUTE	HHSN2752010000031	\$ 36,816
93	RD	203-4789 AMEND 01	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	DUKE UNIVERSITY	NATIONAL INSTITUTES OF HEALTH	\$ 50,975
93	RD	BABYTAPE	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	DUKE UNIVERSITY	HHSN-2752010000031	\$ 7,756
93	RD	CE01-203/SPS 212079	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	DUKE UNIVERSITY	N/A	\$ 4,700
93	RD	HHSN27500001_TASK ORDER 34	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	DUKE UNIVERSITY	HHSN2752010000031	\$ 3,244
93	RD	HHSN2752010000031	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	DUKE UNIVERSITY	HHSN-2752010000031	\$ 36,038
93	RD	NIH TO #25	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	DUKE UNIVERSITY	NATIONAL INSTITUTES OF HEALTH	\$ 1,357
93	RD	ESSENTIAL INST OF RURAL HLTH	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	ESSENTIA INSTITUTE OF RURAL HEALTH	N/A	\$ 4,197
93	RD	158682 PO #6502783	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	GEISINGER HEALTH SYSTEM	CD-1304-6987	\$ 4,866
93	RD	R2368-A AMENDMENT 3	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	GLADSTONE INSTITUTES	5U54NS091046-02	\$ 30,465
93	RD	2002668606	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	NATIONAL INSTITUTES OF HEALTH	\$ 13,656
93	RD	161485 YEAR 3 FUND #224108	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	MASSACHUSETTS GENERAL HOSPITAL	N/A	\$ 85,964
93	RD	MUSC16-21	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	MEDICAL UNIVERSITY OF SOUTH CAROLINA, THE	PCS-1402-09328	\$ 18,188
93	RD	4/1/2017-3/31/2018	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	NORTHWESTERN UNIVERSITY	NATIONAL INSTITUTES OF HEALTH	\$ 27,382
93	RD	60032689 PSU AMEND A03	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	NORTHWESTERN UNIVERSITY	NATIONAL INSTITUTES OF HEALTH	\$ 636
93	RD	60036745	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	NORTHWESTERN UNIVERSITY	5U01NS080818-03	\$ 21,404
93	RD	186245	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	QUADRANT BIOSCIENCES INC.	1 R41 MH111347-01	\$ 51,211
93	RD	701-7137112	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	RHODE ISLAND HOSPITAL	R01HL110791-04	\$ 51,969
93	RD	701-7137112	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	RHODE ISLAND HOSPITAL	R01HL110791-05	\$ 2,083
93	RD	6/1/2017-5/31/2018	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	STONY BROOK UNIVERSITY	NATIONAL INSTITUTES OF HEALTH	\$ 9,153
93	RD	87017-1	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF ALABAMA, THE	HHSN2722011000161	\$ 74,760
93	RD	87017-R1	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF ALABAMA, THE	N/A	\$ 28,982
93	RD	ULRF14-1281	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF LOUISVILLE	5R01CA185972-03	\$ 84,504
93	RD	ULRF-14-1281 PO 3000184452	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF LOUISVILLE	R01CA185972	\$ 26,922
93	RD	SUBK00005527	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF MICHIGAN	N/A	\$ 28,903
93	RD	215350B AMEND 3	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF OREGON	1R01DA035062	\$ 57,128
93	RD	0030451 (123192)	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	1U01NS081041-01A1	\$ (304)
93	RD	0038682 (127179-1)	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	5U01HL123020-03	\$ 61,423
93	RD	9011986 (128727-3)	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	U1QHP28736	\$ 96,083
93	RD	9012549 (128373-5)	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	NATIONAL INSTITUTES OF HEALTH	\$ 44,439
93	RD	9012549(128373-5)	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF PITTSBURGH	NATIONAL INSTITUTES OF HEALTH	\$ 8,023

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CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
93	RD	5/1/2017-4/30/2018	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF ROCHESTER	NATIONAL INSTITUTES OF HEALTH	\$ 10,644
93	RD	6/1/2017-5/31/2018	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF TEXAS AT SAN ANTONIO, THE	NATIONAL INSTITUTES OF HEALTH	\$ 3,347
93	RD	GC12273 145679	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF VIRGINIA	N/A	\$ 32,066
93	RD	576K424	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN	R01 HD080201-01A1	\$ 160,705
93	RD	6/1/2017-5/31/2018	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	UNIVERSITY OF WISCONSIN - MADISON	NATIONAL INSTITUTES OF HEALTH	\$ 39,245
93	RD	VUMC52280 AMEND 1	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	VANDERBILT UNIVERSITY	K07 CA172294	\$ (6,257)
93	RD	MI4A12028 (A10541)	NATIONAL INSTITUTES OF HEALTH - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 14,491,802	\$ 544,486,028	N	YALE UNIVERSITY	5U01HD055925-08	\$ 50,535
96	007		SOCIAL SECURITY RESEARCH AND DEMONSTRATION	RESEARCH AND DEVELOPMENT	\$ 45,000	\$ 544,486,028	N	BOSTON COLLEGE	6 RRC0898402-08-04	\$ 45,000
97	061		CENTERS FOR HOMELAND SECURITY	RESEARCH AND DEVELOPMENT	\$ 77,995	\$ 544,486,028	N	PURDUE UNIVERSITY	2009-ST-061-CI0001	\$ 77,995
97	077		HOMELAND SECURITY RESEARCH, DEVELOPMENT, TESTING, EVALUATION, AND DEMONSTRATION OF TECHNOLOGIES RELATED TO NUCLEAR THREAT DETECTION	RESEARCH AND DEVELOPMENT	\$ 329,640	\$ 544,486,028	Y			\$ 162,349
98	001		USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	RESEARCH AND DEVELOPMENT	\$ 1,324,628	\$ 544,486,028	Y			\$ 492,332
98	001		USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	RESEARCH AND DEVELOPMENT	\$ 1,324,628	\$ 544,486,028	N	COLLEGE OF WILLIAM & MARY	U.S. AGENCY FOR INTERNATIONAL	\$ 5,440
98	001		USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	RESEARCH AND DEVELOPMENT	\$ 1,324,628	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, DAVIS	EPP-A-00-09-00004	\$ 109,014
98	001		USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	RESEARCH AND DEVELOPMENT	\$ 1,324,628	\$ 544,486,028	N	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	AID-0AA-L-12-00002	\$ 64,947
98	001		USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	RESEARCH AND DEVELOPMENT	\$ 1,324,628	\$ 544,486,028	N	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	AID-111-A-14-00003	\$ 34,526
98	001		USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	RESEARCH AND DEVELOPMENT	\$ 1,324,628	\$ 544,486,028	N	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	AID-OAA-L-15-00001	\$ 51,939
98	RD	AID-OFDA-G-14-00214	AGENCY FOR INTERNATIONAL DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 224,824	\$ 544,486,028	Y			\$ 13,140
98	RD	S16056	AGENCY FOR INTERNATIONAL DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 224,824	\$ 544,486,028	N	KANSAS STATE UNIVERSITY	AID-OAA-L-14-00006	\$ 151,059
98	RD	8000075676	AGENCY FOR INTERNATIONAL DEVELOPMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 224,824	\$ 544,486,028	N	PURDUE UNIVERSITY	209673	\$ 9,100
99	RD	11-C-0323	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y		\$ 3,378	\$ 3,980
99	RD	11-G-5134/0005	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y		\$ 782,494	\$ 849,867
99	RD	12-G-2087/0005	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ (301)
99	RD	12-G-2500 TO 0002	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ (872)
99	RD	12-G-2807 ORDER 0006	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ (821)
99	RD	12-G-2807 ORDER 0007	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ (755)
99	RD	12-G-2807 TO 0008	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ (1,268)
99	RD	12-G-3050	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ 174,385
99	RD	12-G-3050 TO-0011	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y		\$ 112,393	\$ 127,155
99	RD	12-G-3050 ORDER 0006	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ 13
99	RD	12-G-3050/0013	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y		\$ 1,347,319	\$ 1,505,457
99	RD	12-G-3050/0014	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y		\$ 2,105,166	\$ 2,278,757
99	RD	12-G-3050/0015	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y		\$ 439,158	\$ 491,094
99	RD	12-G-3050/0016	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y		\$ 24,505	\$ 33,659
99	RD	12-G-3050/0017	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y		\$ 164,429	\$ 189,712
99	RD	13-G-2500 TO 0006	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ 652,791
99	RD	13-G-2500/0006	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ 119,976
99	RD	13-G-4323/0004	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ 232,271
99	RD	14-C-0150	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y		\$ 653,007	\$ 5,676,761
99	RD	14-C-0188	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y		\$ 95,966	\$ 695,280

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
99 RD	15-C-5014	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 8,486
99 RD	15-G-2529 TO 0001	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 390,821
99 RD	15-G-2529 TO 001	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 167,526
99 RD	15-G-2529 TO 002	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 580,302
99 RD	15-G-2529/0001	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 39,283
99 RD	16021000002 TO 001	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 768,302
99 RD	16-C-0026	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 179,294
99 RD	16-C-0089	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ 463,637	\$ 1,909,014
99 RD	2010-0928224-005	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ (204)
99 RD	2010-0928224-006	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ (1,901)
99 RD	2010-098224-006 TO 0006	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ (852)
99 RD	2013324G001 TO 0007	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ 109,553	\$ 124,916
99 RD	2013324G001 TO 005	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ (4,849)
99 RD	2013324G001 TO 006	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ (3,493)
99 RD	2013324G001 TO 007	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ 297,087	\$ 320,085
99 RD	2013324G001 TO 010	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 109,661
99 RD	2013324G001 TO 03	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ (303)
99 RD	2013324G001/006	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 349,577
99 RD	2013324G001/009	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 437,694
99 RD	2013324G001-004	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ (147)
99 RD	2013324G001-008	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 196,324
99 RD	2015233G004	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ 14,919	\$ 495,989
99 RD	2016034G004	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 5,994,260
99 RD	2016-160200002-003	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ 40,500	\$ 62,970
99 RD	2016-16021000002 TO 001	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 205,140
99 RD	201616021000002-002	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 5,386
99 RD	2016-16021000002-002	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 37,249
99 RD	2016-1602100002-003	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 76,788
99 RD	2807 TO 0006	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ (894)
99 RD	3050 ORDER 0007	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y			\$ (426)	\$ (426)
99 RD	3050/0008	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ (5,259)
99 RD	5317	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 253,397
99 RD	USG	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 7,599
99 RD	USG CLIN 0004	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 3
99 RD	USG CLIN 0006	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 201
99 RD	USG CLIN 0007	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ (4,243)
99 RD	USG CLIN 0009	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	Y				\$ 4,418
99 RD	TA4, NRTC-FY15-D-01A/2015-328	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	ADVANCED TECHNOLOGY INTERNATIONAL	WIQKN-10-9-0003		\$ 134,963
99 RD	ARV-15-009_PSU_001_2	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	ALTEX TECHNOLOGIES	ARV-15-009		\$ 56,262
99 RD	CAPO-0094	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	CAITTA, INC.	HHSF2232015106886P		\$ 70,000
99 RD	SC1505801	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	CHARLES RIVER ANALYTICS INC.	FA8650-16-C-6680		\$ 102,160
99 RD	140900106	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	CONCURRENT TECHNOLOGIES CORPORATION	N/A		\$ 1,194,570
99 RD	140900106- SLIN002 NON LABOR	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	CONCURRENT TECHNOLOGIES CORPORATION	N/A		\$ 812
99 RD	25536	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	CURTISS-WRIGHT CORPORATION	111116-G		\$ 43,864
99 RD	195108	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	DOWNSTREAM STRATEGIES, LLC	APPALACHIAN REGIONAL COMMISSIO		\$ 24,412
99 RD	51ESM907599	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	GENERAL DYNAMICS CORPORATION	B16-2016166G003		\$ 6,395
99 RD	B16Y358	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	GENERAL DYNAMICS CORPORATION	B15-2015105G001		\$ 147,086
99 RD	JRS-000079 PR-50591	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	IAP WORLDWIDE SERVICES, INC.	W15P7T-10-D-D416		\$ 44,005
99 RD	117590	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	11-G-2402		\$ 140
99 RD	124818 TO 133815	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	CPD1		\$ 2,990

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
99 RD	124818/TO 135787	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	JOHNS HOPKINS UNIVERSITY	15-G-2133		\$ 39,338
99 RD	437-01	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	KESSLER FOUNDATION	HC0185		\$ 38,776
99 RD	2010-SC-4-0131 CO 1 & 2	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	L-3 COMMUNICATIONS HOLDINGS, INC.	N/A		\$ (701)
99 RD	4101996824	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	LOCKHEED MARTIN CORPORATION	CLASSIFIED		\$ (4,057)
99 RD	4102757441	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	LOCKHEED MARTIN CORPORATION	UNNUMBERED (SEAHORSE)		\$ 202,873
99 RD	PO 4102827037	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	LOCKHEED MARTIN CORPORATION	UNNUMBERED		\$ 258,800
99 RD	G02756 PO P0178449	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	MIAMI UNIVERSITY	G-1617-04-0372		\$ 42,701
99 RD	710000253 20474	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	MISCELLANEOUS	N/A		\$ 59,066
99 RD	674-110933-1	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	MRIGLOBAL	HR 15-59		\$ 16,322
99 RD	702-111020-3	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	MRIGLOBAL	17-84		\$ 1,299
99 RD	SUB0000854	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	NATIONAL ACADEMY OF SCIENCES	FR-RRD-0070-16-01-00		\$ 43,743
99 RD	7500145432	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	NORTHROP GRUMMAN CORPORATION	NRO000-16-C-0340		\$ 174,475
99 RD	8180085052	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	NORTHROP GRUMMAN CORPORATION	N/A		\$ 27,415
99 RD	LI00163644 CLIN 0003AA	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	RAYTHEON COMPANY	N/A	\$ 76,301	\$ 88,653
99 RD	LI00163644 CLIN 0011	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	RAYTHEON COMPANY	N/A		\$ 74,848
99 RD	LI00163644 CLIN 0011AA	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	RAYTHEON COMPANY	N/A		\$ 12,914
99 RD	LI00163644 CLIN 0015	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	RAYTHEON COMPANY	N/A		\$ 98,690
99 RD	LI00163644 CLIN 0015AA	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	RAYTHEON COMPANY	N/A		\$ 55,880
99 RD	LI00163644 CLIN 0022AA	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	RAYTHEON COMPANY	N/A		\$ 34,898
99 RD	LI00163644 CLIN 0024	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	RAYTHEON COMPANY	N/A		\$ 206,888
99 RD	PO #022610	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	ROBERTS & FOLKERS ASSOCIATES LLC	N/A		\$ 1,313
99 RD	S15-024-570090-PENN	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	TEXAS A&M UNIVERSITY	2011-0001-PA011		\$ 7,356
99 RD	9597SC	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	SOC OF FAM PLANNING; SFPRF1010		\$ 58,551
99 RD	080189-16209 GRANT CODE AC542	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	UNIVERSITY OF ILLINOIS	298347		\$ 11,747
99 RD	1500770	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	UNIVERSITY OF MARYLAND	1NU27DD001155		\$ 3,259
99 RD	567394	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	UNIVERSITY OF PENNSYLVANIA	G-2015-14011		\$ 36,879
99 RD	WU-16-64 PO 2928371A	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	WASHINGTON UNIVERSITY IN ST. LOUIS	4-FY15-415		\$ 7,435
99 RD	WU-17-231 PO 2928437C	UNITED STATES GOVERNMENT - NON-SPECIFIED	RESEARCH AND DEVELOPMENT	\$ 29,166,275	\$ 544,486,028	N	WASHINGTON UNIVERSITY IN ST. LOUIS	4-FY16-273		\$ 10,000
84 007		FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT	STUDENT FINANCIAL AID	\$ 4,304,806	\$ 681,317,418	Y				\$ 4,304,806
84 033		FEDERAL WORK STUDY PROGRAM	STUDENT FINANCIAL AID	\$ 2,862,242	\$ 681,317,418	Y				\$ 2,862,242
84 038		FEDERAL PERKINS LOAN PROGRAM	STUDENT FINANCIAL AID	\$ 42,772,219	\$ 681,317,418	Y				\$ 42,772,219
84 063		FEDERAL PELL GRANT PROGRAM	STUDENT FINANCIAL AID	\$ 83,599,740	\$ 681,317,418	Y				\$ 83,599,740
84 268		FEDERAL DIRECT LOAN PROGRAM	STUDENT FINANCIAL AID	\$ 547,739,058	\$ 681,317,418	Y				\$ 547,739,058
93 342		HEALTH PROFESSIONS STUDENT LOAN PROGRAM	STUDENT FINANCIAL AID	\$ 39,353	\$ 681,317,418	Y				\$ 39,353
10 001		AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH	N/A	\$ 1,345,455	\$ -	N	UNIVERSITY OF ARKANSAS	58-8250-4-002		\$ 95,938
10 025		PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE	N/A	\$ 987,085	\$ -	Y				\$ (1,347)
10 103		AQUACULTURE GRANT PROGRAM	N/A	\$ 28,028	\$ -	N	UNIVERSITY OF VERMONT, THE	2015-38640-23777		\$ 28,028
10 170		SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	N/A	\$ 305,146	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	44155554		\$ 67,950
10 170		SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	N/A	\$ 305,146	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	44166071		\$ 12,215

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**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
10 170		SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	N/A	\$ 305,146	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	44166076		\$ 22,335
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	N/A	\$ 475,899	\$ -	N	UNIVERSITY OF VERMONT, THE	20163864025380		\$ 28,440
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	N/A	\$ 475,899	\$ -	N	UNIVERSITY OF VERMONT, THE	2014-38640-22161		\$ 65,841
10 215		SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	N/A	\$ 475,899	\$ -	N	UNIVERSITY OF VERMONT, THE	2015-38640-23777		\$ 20,155
10 303		INTEGRATED PROGRAMS	N/A	\$ 548,588	\$ -	N	CORNELL UNIVERSITY	2012-51120-20287		\$ 24,719
10 309		SPECIALTY CROP RESEARCH INITIATIVE	N/A	\$ 1,127,516	\$ -	N	CORNELL UNIVERSITY	2015-51181-24393		\$ 24,218
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	N/A	\$ 8,645,724	\$ -	Y				\$ 562,947
10 310		AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	N/A	\$ 8,645,724	\$ -	N	OHIO STATE UNIVERSITY, THE	2015-68004-23131		\$ 46,921
10 311		BEGINNING FARMER AND RANCHER DEVELOPMENT PROGRAM	N/A	\$ 164,346	\$ -	Y				\$ 156,725
10 311		BEGINNING FARMER AND RANCHER DEVELOPMENT PROGRAM	N/A	\$ 164,346	\$ -	N	UNIVERSITY OF VERMONT, THE	20157001723898		\$ 7,621
10 328		NATIONAL FOOD SAFETY TRAINING, EDUCATION, EXTENSION, OUTREACH, AND TECHNICAL ASSISTANCE COMPETITIVE GRANTS PROGRAM	N/A	\$ 20,165	\$ -	Y				\$ 20,165
10 329		CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS PROGRAM	N/A	\$ 336,991	\$ -	Y				\$ 194,487
10 329		CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS PROGRAM	N/A	\$ 336,991	\$ -	N	UNIVERSITY OF VERMONT, THE	2014-70006-22516		\$ 13,612
10 451		NONINSURED ASSISTANCE	N/A	\$ 71,949	\$ -	Y				\$ 71,949
10 458		CROP INSURANCE EDUCATION IN TARGETED STATES	N/A	\$ 86,898	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	44155491		\$ 5,404
10 458		CROP INSURANCE EDUCATION IN TARGETED STATES	N/A	\$ 86,898	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	44155556		\$ 2,057
10 458		CROP INSURANCE EDUCATION IN TARGETED STATES	N/A	\$ 86,898	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	44166063		\$ 548
10 458		CROP INSURANCE EDUCATION IN TARGETED STATES	N/A	\$ 86,898	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	ME# 44155490		\$ 50,331
10 458		CROP INSURANCE EDUCATION IN TARGETED STATES	N/A	\$ 86,898	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	ME# 44166062		\$ 28,558
10 460		RISK MANAGEMENT EDUCATION PARTNERSHIPS	N/A	\$ 30,541	\$ -	Y				\$ 30,541
10 500		COOPERATIVE EXTENSION SERVICE	N/A	\$ 26,469,711	\$ -	Y			\$ 62,070	\$ 11,529,232
10 500		COOPERATIVE EXTENSION SERVICE	N/A	\$ 26,469,711	\$ -	N	KANSAS STATE UNIVERSITY	2013-48696-21184		\$ 9,042
10 500		COOPERATIVE EXTENSION SERVICE	N/A	\$ 26,469,711	\$ -	N	KANSAS STATE UNIVERSITY	2014-48661-22370		\$ 6,042
10 500		COOPERATIVE EXTENSION SERVICE	N/A	\$ 26,469,711	\$ -	N	UNIVERSITY OF NEBRASKA	2013-48712-21516		\$ 421,056
10 500		COOPERATIVE EXTENSION SERVICE	N/A	\$ 26,469,711	\$ -	N	UNIVERSITY OF VERMONT, THE	2012-47001-19544	\$ 820	\$ 1,066
10 500		COOPERATIVE EXTENSION SERVICE	N/A	\$ 26,469,711	\$ -	N	UNIVERSITY OF DELAWARE	2015-49200-24225		\$ 20,702
10 558		CHILD AND ADULT CARE FOOD PROGRAM	N/A	\$ 88,706	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	N/A		\$ 88,706
10 559		SUMMER FOOD SERVICE PROGRAM FOR CHILDREN	CHILD NUTRITION CLUSTER	\$ 15,049	\$ 15,049	N	COMMONWEALTH OF PENNSYLVANIA	310-140005		\$ 9,109
10 559		SUMMER FOOD SERVICE PROGRAM FOR CHILDREN	CHILD NUTRITION CLUSTER	\$ 15,049	\$ 15,049	N	COMMONWEALTH OF PENNSYLVANIA	377-140678		\$ 5,940
10 560		STATE ADMINISTRATIVE EXPENSES FOR CHILD NUTRITION	N/A	\$ 228,142	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300467243		\$ 103,162
10 560		STATE ADMINISTRATIVE EXPENSES FOR CHILD NUTRITION	N/A	\$ 228,142	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300518332		\$ 46,413
10 560		STATE ADMINISTRATIVE EXPENSES FOR CHILD NUTRITION	N/A	\$ 228,142	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300518342		\$ 17,923
10 560		STATE ADMINISTRATIVE EXPENSES FOR CHILD NUTRITION	N/A	\$ 228,142	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300524648		\$ 60,644
10 561		STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM	SNAP CLUSTER	\$ 22,798,807	\$ 22,798,807	N	COMMONWEALTH OF PENNSYLVANIA	4100069151	\$ 19,584,298	\$ 22,798,807
10 574		TEAM NUTRITION GRANTS	N/A	\$ 392,391	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300487036		\$ 151,850
10 575		FARM TO SCHOOL GRANT PROGRAM	N/A	\$ 74,509	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300513873		\$ 18,809
10 575		FARM TO SCHOOL GRANT PROGRAM	N/A	\$ 74,509	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300515725		\$ 55,700
10 674		WOOD UTILIZATION ASSISTANCE	N/A	\$ 69,764	\$ -	Y			\$ 23,271	\$ 69,764
10 675		URBAN AND COMMUNITY FORESTRY PROGRAM	N/A	\$ 387,475	\$ -	Y				\$ 387,475

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
10 678		FOREST STEWARDSHIP PROGRAM	N/A	\$ 228,462	\$ -	Y				\$ 196,079
10 868		RURAL ENERGY FOR AMERICA PROGRAM	N/A	\$ 40,365	\$ -	Y				\$ 40,365
10 902		SOIL AND WATER CONSERVATION	N/A	\$ 18,826	\$ -	Y				\$ 18,826
10 912		ENVIRONMENTAL QUALITY INCENTIVES PROGRAM	N/A	\$ 202,478	\$ -	Y			\$ 1,600	\$ 120,837
10 912		ENVIRONMENTAL QUALITY INCENTIVES PROGRAM	N/A	\$ 202,478	\$ -	N	UNVIERSITY OF DELAWARE	69-3A75-12-244		\$ 3,393
10 961		SCIENTIFIC COOPERATION AND RESEARCH	N/A	\$ 20,032	\$ -	Y				\$ 1,770
10 U01 13-CS-11242302-099		DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	N/A	\$ 72,947	\$ -	Y				\$ 8,547
10 U01 16-CR-11138100-009		DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	N/A	\$ 72,947	\$ -	Y				\$ 36,341
10 U01 2015-68004-23179		DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	N/A	\$ 72,947	\$ -	Y				\$ 1,406
10 U01 178427		DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	N/A	\$ 72,947	\$ -	N	CORNELL UNIVERSITY	N/A		\$ 3,750
10 U01 42667		DEPARTMENT OF AGRICULTURE - NON-SPECIFIED	N/A	\$ 72,947	\$ -	N	UNVIERSITY OF DELAWARE	2015-49200-24225	\$ 7,097	\$ 22,903
10 U02 4100077037		NATIONAL INSTITUTE OF FOOD AND AGRICULTURE - NON-SPECIFIED	N/A	\$ 46,916	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4100077037		\$ 46,916
11 U01 ED15HDQ0200022		ECONOMIC DEVELOPMENT ADMINISTRATION - NON-SPECIFIED	N/A	\$ 218,982	\$ -	Y				\$ 128,269
11 U01 ED16PHI3030065		ECONOMIC DEVELOPMENT ADMINISTRATION - NON-SPECIFIED	N/A	\$ 218,982	\$ -	Y				\$ 90,713
11 U02 5/1/2017-9/30/2017		NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY - NON-SPECIFIED	N/A	\$ 18,072	\$ -	Y				\$ 18,072
12 900		LANGUAGE GRANT PROGRAM	N/A	\$ 1,915	\$ -	Y				\$ 1,915
12 U01 DARPA IPA GALAMBOS 2015-2017		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 211,142
12 U01 IPA		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 167,679
12 U01 IPA AGREEMENT		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 310,097
12 U01 7/28/2016-7/27/2018		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 246,089
12 U01 IPA AGMT		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 13,320
12 U01 IPAPSV16ST0006		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ (9,000)
12 U01 AIR FORCE ROTC		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ (32,508)
12 U01 ARMY ROTC		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ (32,508)
12 U01 IPA ASSIGNMENT 2014-2016		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	N	NATIONAL DEFENSE UNIVERSITY	N/A		\$ 5,177
12 U01 24349		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 107,946
12 U01 9/1/2015-8/31/2017		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 311,166
12 U01 DALY IPA 15		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 168,241
12 U01 DN IPA AGREEMENT 2014/2016		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ (46,626)
12 U01 DN IPA AHMED 2015-2016		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 255,517
12 U01 IPA 23734 2015-2017 (ANDERSON)		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 38,770
12 U01 IPA AGREEMENT		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 158,457
12 U01 IPA AGREEMENT WENCHEL 2016		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 278,288
12 U01 N00024-12-D-6404 DO 0407		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 1,319
12 U01 N49606-16-IP-002UA		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 293,525
12 U01 NONE		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 242,963
12 U01 UNUMBERED IPA		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 8,798
12 U01 176706		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 227,191
12 U01 H98230-16-1-0142		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 108,857
12 U01 DA IPA AGREE		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 242,865
12 U01 IPA AGREEMENT		DEPARTMENT OF DEFENSE - NON-SPECIFIED	N/A	\$ 3,527,122	\$ -	Y				\$ 217,849
14 218		COMMUNITY DEVELOPMENT BLOCK GRANTS/ENTITLEMENT GRANTS	CDBG - ENTITLEMENT GRANTS CLUSTER	\$ 10,525	\$ 10,525	N	PARTNER4WORK	N/A		\$ 10,525
16 582		CRIME VICTIM ASSISTANCE/DISCRETIONARY GRANTS	N/A	\$ 127,780	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	26563		\$ 127,780
16 726		JUVENILE MENTORING PROGRAM	N/A	\$ 111,544	\$ -	N	NATIONAL 4-H COUNCIL	2015-JU-FX-0015		\$ 77,953
16 726		JUVENILE MENTORING PROGRAM	N/A	\$ 111,544	\$ -	N	NATIONAL 4-H COUNCIL	OFFICE OF JUVENILE JUSTICE AND		\$ 33,591
16 738		EDWARD BYRNE MEMORIAL JUSTICE ASSISTANCE GRANT PROGRAM	N/A	\$ 165,409	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300483666		\$ 107,262

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
16	738	EDWARD BYRNE MEMORIAL JUSTICE ASSISTANCE GRANT PROGRAM	N/A	\$ 165,409	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4400015622		\$ 58,147
16	U01	2016-NE-BX-K001 DEPARTMENT OF JUSTICE - NON-SPECIFIED	N/A	\$ 243,714	\$ -	Y				\$ 243,714
17	245	TRADE ADJUSTMENT ASSISTANCE	N/A	\$ 1,320,767	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	PDLI		\$ 1,320,767
17	259	WIOA YOUTH ACTIVITIES	WIA CLUSTER	\$ 98,484	\$ 98,484	N	LEHIGH VALLEY WORKFORCE INVESTMENT BOARD, INC.	N/A		\$ 95,134
17	259	WIOA YOUTH ACTIVITIES	WIA CLUSTER	\$ 98,484	\$ 98,484	N	TRI-COUNTY WORKFORCE INVESTMENT BOARD, INC.	N/A		\$ 3,350
17	277	WIOA NATIONAL DISLOCATED WORKER GRANTS / WIA NATIONAL EMERGENCY GRANTS	N/A	\$ 56,032	\$ -	N	CENTRAL PENNSYLVANIA WORKFORCE DEVELOPMENT CORPORATION	PENN41-SECT-1701		\$ 44,430
17	277	WIOA NATIONAL DISLOCATED WORKER GRANTS / WIA NATIONAL EMERGENCY GRANTS	N/A	\$ 56,032	\$ -	N	CENTRAL PENNSYLVANIA WORKFORCE DEVELOPMENT CORPORATION	US DEPARTMENT OF LABOR		\$ 11,602
17	600	MINE HEALTH AND SAFETY GRANTS	N/A	\$ 301,294	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300410625		\$ 152
17	600	MINE HEALTH AND SAFETY GRANTS	N/A	\$ 301,294	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300470895		\$ 1,063
17	600	MINE HEALTH AND SAFETY GRANTS	N/A	\$ 301,294	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300474477		\$ 83,431
17	600	MINE HEALTH AND SAFETY GRANTS	N/A	\$ 301,294	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300523410		\$ 216,648
17	603	BROOKWOOD-SAGO GRANT	N/A	\$ 44,906	\$ -	Y			\$ 25,062	\$ 44,906
17	U01	WIOA15-17-007 DEPARTMENT OF LABOR - NON-SPECIFIED	N/A	\$ 4,769	\$ -	N	WESTMORELAND-FAYETTE WORKFORCE INVESTMENT BOARD	US DEPT OF LABOR		\$ 4,769
19	010	ACADEMIC EXCHANGE PROGRAMS - HUBERT H. HUMPHREY FELLOWSHIP PROGRAM	N/A	\$ 246,413	\$ -	N	INSTITUTE FOR INTERNATIONAL EDUCATION	N/A		\$ 246,413
19	U01	S-LMAQM-16-CA-1221 DEPARTMENT OF STATE - NON-SPECIFIED	N/A	\$ 108,834	\$ -	Y				\$ 108,834
20	106	AIRPORT IMPROVEMENT PROGRAM	N/A	\$ 6,120,524	\$ -	Y				\$ 6,120,524
20	205	HIGHWAY PLANNING AND CONSTRUCTION	HIGHWAY PLANNING AND CONSTRUCTION CLUSTER	\$ 664,459	\$ 546,334	N	COMMONWEALTH OF PENNSYLVANIA	N/A		\$ 546,334
39	003	DONATION OF FEDERAL SURPLUS PERSONAL PROPERTY	N/A	\$ 4,839	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	N/A		\$ 4,839
39	U01	GS-21F-025CA GENERAL SERVICES ADMINISTRATION - NON-SPECIFIED	N/A	\$ 117,271	\$ -	Y				\$ 117,271
43	001	SCIENCE	N/A	\$ 7,887,642	\$ -	Y				\$ 10,080
43	008	EDUCATION	N/A	\$ 1,116,606	\$ -	Y			\$ 9,757	\$ 16,201
43	008	EDUCATION	N/A	\$ 1,116,606	\$ -	N	TEXAS STATE UNIVERSITY	NNX14AQ30A		\$ 87,214
43	U01	HST-EO-13802.001-A NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - NON-SPECIFIED	N/A	\$ 6,338	\$ -	N	SPACE TELESCOPE SCIENCE INSTITUTE	NAS5-26555		\$ 6,338
45	024	PROMOTION OF THE ARTS GRANTS TO ORGANIZATIONS AND INDIVIDUALS	N/A	\$ 10,675	\$ -	Y				\$ 10,008
45	025	PROMOTION OF THE ARTS PARTNERSHIP AGREEMENTS	N/A	\$ 9,000	\$ -	N	MID ATLANTIC ARTS FOUNDATION	NATIONAL ENDOWMENT FOR THE ART		\$ 9,000
47	049	MATHEMATICAL AND PHYSICAL SCIENCES	N/A	\$ 19,720,413	\$ -	Y				\$ 113,006
47	050	GEOSCIENCES	N/A	\$ 9,520,878	\$ -	Y				\$ 8,452
47	070	COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	N/A	\$ 8,297,348	\$ -	Y				\$ 26
47	074	BIOLOGICAL SCIENCES	N/A	\$ 9,383,901	\$ -	Y				\$ 33,929
47	076	EDUCATION AND HUMAN RESOURCES	N/A	\$ 7,837,993	\$ -	Y				\$ 657,391
47	076	EDUCATION AND HUMAN RESOURCES	N/A	\$ 7,837,993	\$ -	N	UNIVERSITY OF MASSACHUSETTS	HRD 9978878		\$ (12,429)
47	U01	HRD 16-49184 NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	N/A	\$ 38,107	\$ -	Y				\$ 6,000
47	U01	ICER-1736333 NATIONAL SCIENCE FOUNDATION - NON-SPECIFIED	N/A	\$ 38,107	\$ -	Y				\$ 32,107
59	037	SMALL BUSINESS DEVELOPMENT CENTERS	N/A	\$ 57,190	\$ -	N	UNIVERSITY OF PENNSYLVANIA	SBAHQ-16-B-0043		\$ 57,190
59	058	FEDERAL AND STATE TECHNOLOGY PARTNERSHIP PROGRAM	N/A	\$ 3,041	\$ -	N	UNIVERSITY OF PENNSYLVANIA	N/A		\$ 3,041
59	U01	1/1/2017-12/31/2017 SMALL BUSINESS ADMINISTRATION - NON-SPECIFIED	N/A	\$ 39,962	\$ -	N	UNIVERSITY OF PENNSYLVANIA	U.S. SMALL BUSINESS ADMINISTRATION		\$ 39,962

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
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CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
66	466		CHESAPEAKE BAY PROGRAM	N/A	\$ 476,253	\$ -	N	JUNIATA COUNTY CONSERVATION DISTRICT	US EPA	\$ 13,564
66	466		CHESAPEAKE BAY PROGRAM	N/A	\$ 476,253	\$ -	N	NATIONAL FISH AND WILDLIFE FOUNDATION	0602.15.049722	\$ 7,200 \$ 104,833
66	466		CHESAPEAKE BAY PROGRAM	N/A	\$ 476,253	\$ -	N	NATIONAL FISH AND WILDLIFE FOUNDATION	N/A	\$ 21,568 \$ 49,273
66	708		POLLUTION PREVENTION GRANTS PROGRAM	N/A	\$ 110,064	\$ -	Y			\$ 103,246
66	708		POLLUTION PREVENTION GRANTS PROGRAM	N/A	\$ 110,064	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4100066876	\$ 6,818
66	717		SOURCE REDUCTION ASSISTANCE	N/A	\$ 1,809	\$ -	Y			\$ 1,809
66	U01	NP96344901	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	N/A	\$ 400,678	\$ -	Y			\$ 42,474
66	U01	188666	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	N/A	\$ 400,678	\$ -	N	BEAVER COUNTY, PENNSYLVANIA	4100073724	\$ 9,112
66	U01	187434	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	N/A	\$ 400,678	\$ -	N	DELAWARE COUNTY, PENNSYLVANIA	4100072575	\$ 52,050
66	U01	188425 PRIME 4100073722	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	N/A	\$ 400,678	\$ -	N	DELAWARE COUNTY, PENNSYLVANIA	4100073722	\$ 30,161
66	U01	186461; PRIME 4100072437	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	N/A	\$ 400,678	\$ -	N	FRANKLIN COUNTY, PENNSYLVANIA	4100072437	\$ 24,092
66	U01	4100076424	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	N/A	\$ 400,678	\$ -	N	FRANKLIN COUNTY, PENNSYLVANIA	7C-FA-28.0	\$ 22,327
66	U01	186457 DEP #4100072340	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	N/A	\$ 400,678	\$ -	N	LEHIGH COUNTY, PENNSYLVANIA	4100072340	\$ 54,837
66	U01	4100073714; SUB 189759	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	N/A	\$ 400,678	\$ -	N	LEHIGH COUNTY, PENNSYLVANIA	4100073714	\$ 28,868
66	U01	188429	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	N/A	\$ 400,678	\$ -	N	NORTHAMPTON COUNTY, PENNSYLVANIA	4100073588	\$ 47,637
66	U01	189860	ENVIRONMENTAL PROTECTION AGENCY - NON-SPECIFIED	N/A	\$ 400,678	\$ -	N	SUSTAINABLE CHESAPEAKE	0602.16.053565	\$ 89,120
81	041		STATE ENERGY PROGRAM	N/A	\$ 674,038	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300420329	\$ (4)
81	041		STATE ENERGY PROGRAM	N/A	\$ 674,038	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300512838	\$ 472,085
81	049		OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	N/A	\$ 10,888,617	\$ -	Y			\$ 12,735
81	087		RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	N/A	\$ 1,777,994	\$ -	Y		\$ 76,628	\$ 76,628
81	U01	P217A120086-15B & 16	DEPARTMENT OF ENERGY - NON-SPECIFIED	N/A	\$ 316,049	\$ -	Y			\$ 219,915
81	U01	4300512722	DEPARTMENT OF ENERGY - NON-SPECIFIED	N/A	\$ 316,049	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300512722	\$ 96,134
84	002		ADULT EDUCATION - BASIC GRANTS TO STATES	N/A	\$ 1,232,288	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	064-160039	\$ 517
84	002		ADULT EDUCATION - BASIC GRANTS TO STATES	N/A	\$ 1,232,288	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	064-16-0040	\$ 347
84	002		ADULT EDUCATION - BASIC GRANTS TO STATES	N/A	\$ 1,232,288	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	064-170039	\$ 310,950
84	002		ADULT EDUCATION - BASIC GRANTS TO STATES	N/A	\$ 1,232,288	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	064-170040	\$ 164,784
84	002		ADULT EDUCATION - BASIC GRANTS TO STATES	N/A	\$ 1,232,288	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	099-160001	\$ 1,161
84	002		ADULT EDUCATION - BASIC GRANTS TO STATES	N/A	\$ 1,232,288	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	099-160002	\$ 1,700
84	002		ADULT EDUCATION - BASIC GRANTS TO STATES	N/A	\$ 1,232,288	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	099-170001	\$ 60,000 \$ 189,320
84	002		ADULT EDUCATION - BASIC GRANTS TO STATES	N/A	\$ 1,232,288	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	099-170002	\$ 250,783
84	002		ADULT EDUCATION - BASIC GRANTS TO STATES	N/A	\$ 1,232,288	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	099-170003	\$ 205,613
84	002		ADULT EDUCATION - BASIC GRANTS TO STATES	N/A	\$ 1,232,288	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	FA-099-16-0003	\$ 107,113
84	027		SPECIAL EDUCATION GRANTS TO STATES	SPECIAL EDUCATION CLUSTER (IDEA)	\$ 484,791	\$ 477,196	N	COMMONWEALTH OF PENNSYLVANIA	062-160042	\$ 64,616
84	027		SPECIAL EDUCATION GRANTS TO STATES	SPECIAL EDUCATION CLUSTER (IDEA)	\$ 484,791	\$ 477,196	N	COMMONWEALTH OF PENNSYLVANIA	062-170042	\$ 412,580

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
84 044		TRIO TALENT SEARCH	TRIO CLUSTER	\$ 112,793	\$ 306,396	Y				\$ 112,793
84 047		TRIO UPWARD BOUND	TRIO CLUSTER	\$ 90,313	\$ 306,396	Y				\$ 90,313
84 217		TRIO MCNAIR POST-BACCALAUREATE ACHIEVEMENT	TRIO CLUSTER	\$ 103,290	\$ 306,396	Y				\$ 103,290
84 048		CAREER AND TECHNICAL EDUCATION - BASIC GRANTS TO STATES	N/A	\$ 216,605	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	119 170003		\$ 216,605
84 126		REHABILITATION SERVICES VOCATIONAL REHABILITATION GRANTS TO STATES	N/A	\$ 235,126	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	N/A		\$ 235,126
84 129		REHABILITATION LONG-TERM TRAINING	N/A	\$ 201,556	\$ -	Y				\$ 201,556
84 325		SPECIAL EDUCATION - PERSONNEL DEVELOPMENT TO IMPROVE SERVICES AND RESULTS FOR CHILDREN WITH DISABILITIES	N/A	\$ 511,040	\$ -	Y				\$ 511,040
84 365		ENGLISH LANGUAGE ACQUISITION STATE GRANTS	N/A	\$ 206,215	\$ -	Y				\$ 99,990
84 367		SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS	N/A	\$ 285,231	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	071-800045	\$ 223,366	\$ 262,101
84 367		SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS	N/A	\$ 285,231	\$ -	N	NATIONAL WRITING PROJECT	N/A		\$ 16,508
84 367		SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS	N/A	\$ 285,231	\$ -	N	NATIONAL WRITING PROJECT	U367D150004		\$ 4,791
84 407		TRANSITION PROGRAMS FOR STUDENTS WITH INTELLECTUAL DISABILITIES INTO HIGHER EDUCATION	N/A	\$ 44,107	\$ -	N	MILLERSVILLE UNIVERSITY	P407A100034		\$ 44,107
84 U01	4/1/1998-12/31/2099	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 81,534
84 U01	P044A160461	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 341,840
84 U01	P044A160465 ACTION 1	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 147,751
84 U01	P044A160470 ACTION 1	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 178,526
84 U01	P047A120871-15	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ (9,503)
84 U01	P047A120871-16	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 440,155
84 U01	P047A120875-16	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 196,464
84 U01	P047A170384	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 70,058
84 U01	P047M120100-16	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 124,681
84 U01	P047M120100-4	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 103,694
84 U01	P066A120043 ACTION 5	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 202,716
84 U01	P066A120043-15	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 43,094
84 U01	P066A160255 ACTION1	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 150,219
84 U01	R305B150033	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y				\$ 638,183
84 U01	T365Z110200_ACTION 8	DEPARTMENT OF EDUCATION - NON-SPECIFIED	N/A	\$ 2,796,570	\$ -	Y			\$ 16,521	\$ 87,158
93 107		AREA HEALTH EDUCATION CENTERS	N/A	\$ 662,047	\$ -	Y			\$ 493,656	\$ 662,047
93 113		ENVIRONMENTAL HEALTH	N/A	\$ 2,122,886	\$ -	Y				\$ 31,104
93 241		STATE RURAL HOSPITAL FLEXIBILITY PROGRAM	N/A	\$ 421,381	\$ -	Y				\$ 421,381
93 242		MENTAL HEALTH RESEARCH GRANTS	N/A	\$ 4,650,266	\$ -	Y				\$ 31,781
93 243		SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE	N/A	\$ 9,745	\$ -	N	YORK/ADAMS MH-IDD PROGRAM	1-U79-SM061750-01		\$ 9,745
93 247		ADVANCED NURSING EDUCATION WORKFORCE GRANT PROGRAM	N/A	\$ 3,665	\$ -	Y				\$ 3,665
93 262		OCCUPATIONAL SAFETY AND HEALTH PROGRAM	N/A	\$ 416,965	\$ -	N	MARSHFIELD CLINIC RESEARCH INSTITUTE	2U54OH009568-07		\$ 49,772
93 262		OCCUPATIONAL SAFETY AND HEALTH PROGRAM	N/A	\$ 416,965	\$ -	N	MARSHFIELD CLINIC RESEARCH INSTITUTE	5U54OH009568-08		\$ 74,932
93 262		OCCUPATIONAL SAFETY AND HEALTH PROGRAM	N/A	\$ 416,965	\$ -	N	MARSHFIELD CLINIC RESEARCH INSTITUTE	I2U54OH010170-06		\$ 10,471
93 273		ALCOHOL RESEARCH PROGRAMS	N/A	\$ 2,968,111	\$ -	Y				\$ 53,300
93 279		DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	N/A	\$ 6,646,265	\$ -	Y				\$ 35,408
93 350		NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	N/A	\$ 5,045,155	\$ -	Y				\$ 81,941
93 358		ADVANCED EDUCATION NURSING TRAINEESHIPS	N/A	\$ 334,067	\$ -	Y				\$ 334,067
93 398		CANCER RESEARCH MANPOWER	N/A	\$ 332,565	\$ -	Y				\$ 96,884
93 558		TEMPORARY ASSISTANCE FOR NEEDY FAMILIES	TANF CLUSTER	\$ 29,532	\$ 29,532	N	LEHIGH VALLEY WORKFORCE INVESTMENT BOARD, INC.	1502PATANF		\$ 29,532
93 563		CHILD SUPPORT ENFORCEMENT	N/A	\$ 3,311,755	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4000018811		\$ 3,311,755

See notes to schedule of expenditures of federal awards.

**THE PENNSYLVANIA STATE UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

CFDA Number	Additional Award Identification	Name of Federal Award	Cluster Name	Federal Program Total	Cluster Total	Direct Award	Name of Pass-through Entity	Identifying number assigned by the Pass-through Entity	Amount Passed Through to Subrecipients	Amount Expended
93 575		CHILD CARE AND DEVELOPMENT BLOCK GRANT	CCDF CLUSTER	\$ 1,104,472	\$ 1,087,245	N	CHILD CARE CONSULTANTS, INC.	DHHS		\$ 108,904
93 575		CHILD CARE AND DEVELOPMENT BLOCK GRANT	CCDF CLUSTER	\$ 1,104,472	\$ 1,087,245	N	CHILD CARE CONSULTANTS, INC.	N/A		\$ 818,782
93 575		CHILD CARE AND DEVELOPMENT BLOCK GRANT	CCDF CLUSTER	\$ 1,104,472	\$ 1,087,245	N	GEORGIA DEPARTMENT OF EARLY CARE AND LEARNING	N/A		\$ 77,498
93 575		CHILD CARE AND DEVELOPMENT BLOCK GRANT	CCDF CLUSTER	\$ 1,104,472	\$ 1,087,245	N	NORTHWEST INSTITUTE OF RESEARCH	4100029171		\$ 28,999
93 575		CHILD CARE AND DEVELOPMENT BLOCK GRANT	CCDF CLUSTER	\$ 1,104,472	\$ 1,087,245	N	NORTHWEST INSTITUTE OF RESEARCH	N/A		\$ 1,010
93 575		CHILD CARE AND DEVELOPMENT BLOCK GRANT	CCDF CLUSTER	\$ 1,104,472	\$ 1,087,245	N	PUBLIC HEALTH MANAGEMENT CORPORATION	N/A		\$ 4,745
93 575		CHILD CARE AND DEVELOPMENT BLOCK GRANT	CCDF CLUSTER	\$ 1,104,472	\$ 1,087,245	N	VERMONT DEPARTMENT FOR CHILDREN AND FAMILIES	10601VTCCDF		\$ 47,307
93 758		PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT FUNDED SOLELY WITH PREVENTION AND PUBLIC HEALTH FUNDS (PPHF)	N/A	\$ (30,172)	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4100065734		\$ (30,172)
93 817		HOSPITAL PREPAREDNESS PROGRAM (HPP) EBOLA PREPAREDNESS AND RESPONSE ACTIVITIES	N/A	\$ 13,121	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	N/A		\$ 13,121
93 837		CARDIOVASCULAR DISEASES RESEARCH	N/A	\$ 9,344,315	\$ -	Y				\$ 24,924
93 847		DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	N/A	\$ 8,136,170	\$ -	Y				\$ 62,872
93 855		ALLERGY AND INFECTIOUS DISEASE RESEARCH	N/A	\$ 14,374,708	\$ -	Y				\$ 35,777
93 859		BIOMEDICAL RESEARCH AND RESEARCH TRAINING	N/A	\$ 13,194,842	\$ -	Y				\$ 164,143
93 879		MEDICAL LIBRARY ASSISTANCE	N/A	\$ 101,603	\$ -	Y				\$ 89,347
93 879		MEDICAL LIBRARY ASSISTANCE	N/A	\$ 101,603	\$ -	N	UNIVERSITY OF PITTSBURGH	IUG4LM012342-01		\$ 12,256
93 884		GRANTS FOR PRIMARY CARE TRAINING AND ENHANCEMENT	N/A	\$ 419,239	\$ -	Y				\$ 419,239
93 889		NATIONAL BIOTERRORISM HOSPITAL PREPAREDNESS PROGRAM	N/A	\$ 18,740	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4100062657		\$ 18,740
93 912		RURAL HEALTH CARE SERVICES OUTREACH, RURAL HEALTH NETWORK DEVELOPMENT AND SMALL HEALTH CARE PROVIDER QUALITY IMPROVEMENT PROGRAM	N/A	\$ 592	\$ -	N	PENNSYLVANIA MOUNTAINS HEALTHCARE ALLIANCE	R01RH26277		\$ 592
93 913		GRANTS TO STATES FOR OPERATION OF STATE OFFICES OF RURAL HEALTH	N/A	\$ 165,508	\$ -	Y				\$ 165,508
93 940		HIV PREVENTION ACTIVITIES HEALTH DEPARTMENT BASED	N/A	\$ 77,899	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4300536547		\$ 77,899
93 945		ASSISTANCE PROGRAMS FOR CHRONIC DISEASE PREVENTION AND CONTROL	N/A	\$ 193,900	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4100074815		\$ 193,900
93 989		INTERNATIONAL RESEARCH AND RESEARCH TRAINING	N/A	\$ 393,436	\$ -	Y			\$ 25,130	\$ 123,703
93 994		MATERNAL AND CHILD HEALTH SERVICES BLOCK GRANT TO THE STATES	N/A	\$ 128,638	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	4100065723		\$ 128,638
93 U01	1-4100070188-16/17	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	N/A	\$ 1,009,272	\$ -	N	BERKS COUNTY INTERMEDIATE UNIT	4100070188		\$ 808,790
93 U01	N/A	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	N/A	\$ 1,009,272	\$ -	N	COMMONWEALTH OF PENNSYLVANIA	N/A		\$ 6,084
93 U01	182099	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	N/A	\$ 1,009,272	\$ -	N	COMMUNITY SERVICES FOR CHILDREN	N/A		\$ 1
93 U01	187927	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	N/A	\$ 1,009,272	\$ -	N	COMMUNITY SERVICES FOR CHILDREN	4100029168		\$ 720
93 U01	7/1/2015-6/30/2016	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	N/A	\$ 1,009,272	\$ -	N	COMMUNITY SERVICES FOR CHILDREN	N/A		\$ 1
93 U01	CUDC-907-201	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	N/A	\$ 1,009,272	\$ -	N	CURIS, INC.	CUDC-907-201		\$ 10,200
93 U01	BTCRC-G113-002	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	N/A	\$ 1,009,272	\$ -	N	HOOSIER CANCER RESEARCH NETWORK	NCT02575339		\$ 14,000
93 U01	ICPI	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	N/A	\$ 1,009,272	\$ -	N	INTERSOCIETY COUNCIL FOR PATHOLOGY INFORMATION	147010		\$ 544
93 U01	1C1CMS331021-01-00	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	N/A	\$ 1,009,272	\$ -	N	JOSLIN DIABETES CENTER	N/A		\$ 116,332
93 U01	1C1CMS331021-01-00-PSU	DEPARTMENT OF HEALTH AND HUMAN SERVICES - NON-SPECIFIED	N/A	\$ 1,009,272	\$ -	N	JOSLIN DIABETES CENTER	1C1CMS331021-01-00		\$ (3,059)

See notes to schedule of expenditures of federal awards.

THE PENNSYLVANIA STATE UNIVERSITY
NOTES TO SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017

1. BASIS OF PRESENTATION AND ACCOUNTING

The purpose of the Schedule of Expenditures of Federal Awards (“the Schedule”) is to present a summary of the activities of The Pennsylvania State University (“the University”) for the year ended June 30, 2017 which have been financed by the United States Government. The federal award information is presented in accordance with the provisions of Office of Management and Budget (“OMB”) Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (“Uniform Guidance”). The Schedule is prepared on the accrual basis of accounting.

Expenditures for federal awards are determined using the cost accounting principles and procedures set forth in OMB Circular A-21, *Cost Principles for Educational Institutions*, and the uniform administrative requirements as set forth in OMB Circular A-110, *Uniform Administrative Requirements for Grants and Agreements with Institutions of Higher Education, Hospitals, and Other Non-Profit Organizations*, or the administrative and cost principles contained in Uniform Guidance, as applicable. Amounts passed through to subrecipients represent amounts paid to a third party for effort performed in support of the University’s federal awards. The University has not elected to use the 10% de minimis indirect cost rate.

Because the Schedule presents only a selected portion of the activities of the University, it is not intended to, and does not, present the financial position, results of operations or cash flows of the University.

The University’s consolidated financial statements are prepared on the accrual basis of accounting in conformity with accounting principles generally accepted in the United States of America (GAAP). The Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) is the source of Authoritative GAAP. The University’s consolidated financial statements include statements of financial position, activities and cash flows. In accordance with FASB ASC requirements, net assets and the changes in net assets are classified as permanently restricted, temporarily restricted or unrestricted.

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.

2. FEDERAL LOAN PROGRAMS

The University administers the following federal loan programs:

Title	CFDA No.	Federal Capital Contribution for the Year Ended June 30, 2017	Loan Expenditures And Disbursements	Outstanding Balance at June 30, 2017
Federal Perkins Loan Program	84.038	\$ -	\$ -	\$ 42,772,219
Health Professions Student Loan Program	93.342	-	-	39,353

The above expenditures for the loan programs include disbursements and expenditures such as loans to students and administrative expenditures. The Schedule only includes administrative allowances charged to the loan program.

3. FEDERAL DIRECT LOAN PROGRAM

The University participates in the Federal Direct Student Loan Program (CFDA No. 84.268) including Federal Stafford Loans and Federal PLUS Loans. Loan disbursements under the program for the year ended June 30, 2017 totaled \$547,739,058.

4. SUMMARY SCHEDULE

Programs:	CFDA No.	Subcontract Expenditures	Expenditures
Research and development cluster:			
Direct funding		\$ 49,325,160	\$ 478,791,898
Pass-through funds – Commonwealth of Pennsylvania		93,454	3,106,191
Pass-through funds – other institutions		<u>2,043,577</u>	<u>62,587,939</u>
Total research and development cluster		<u>51,462,191</u>	<u>544,486,028</u>
Student financial aid cluster (direct):			
Department of Education:			
Federal Supplemental Educational Opportunity Grant	84.007	-	4,304,806
Federal Work Study Program	84.033	-	2,862,242
Federal Perkins Loan Program	84.038	-	42,772,219
Federal Pell Grant Program	84.063	-	83,599,740
Federal Direct Loan Program	84.268	-	547,739,058
Department of Health and Human Services:			
Health Professions Student Loan Program	93.342	-	<u>39,353</u>
Total student financial aid cluster		<u>-</u>	<u>681,317,418</u>
Other programs:			
Cooperative Extension Program	10.500	62,890	11,987,140
State Administrative Matching Grants for the Supplemental Nutrition Assistance Program	10.561	19,584,298	22,798,807
Department of Defense – Non-Specified	12.xxx	-	3,527,122
Airport Improvement Program	20.106	-	6,120,524
Other direct funding		671,625	10,902,471
Other pass-through funds – Commonwealth of Pennsylvania		283,366	10,308,208
Other pass-through funds – other institutions		<u>51,518</u>	<u>4,822,275</u>
Total other programs		<u>20,653,697</u>	<u>70,466,547</u>
Total programs		<u>\$ 72,115,888</u>	<u>\$1,296,269,993</u>

INDEPENDENT AUDITORS' 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

To the Board of Trustees of The Pennsylvania State University
University Park, Pennsylvania

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 consolidated financial statements of The Pennsylvania State University and subsidiaries (the "University"), which comprise the consolidated statements of financial position as of June 30, 2017, and the related consolidated statements of activities and cash flows for the years then ended, and the related notes to the consolidated financial statements, and have issued our report thereon dated October 20, 2017.

The consolidated financial statements of the University include various subsidiaries as outlined in Note 1 to the consolidated financial statements. The Penn State Health subsidiaries, including Saint Joseph's Regional Health Network and Medical Group and Nittany Health, Inc. and The Corporation for Penn State subsidiaries, including Penn State Recycling Markets Center, Research Park Management Corporation, The Pennsylvania State University Philanthropic Fund, Ben Franklin Technology Center of Central & Northern PA, Penn State Research Foundation, Research Park Hotel Corporation, and Nittany Insurance Company, are audited in accordance with generally accepted auditing standards, but were not audited in accordance with *Government Auditing Standards* and accordingly this report does not include reporting on internal control over financial reporting or instances of reportable noncompliance associated with these entities.

Internal Control Over Financial Reporting

In planning and performing our audit of the consolidated 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 opinion on the consolidated financial statements, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we do not express an opinion on the effectiveness of the University's internal control.

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


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

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the University's consolidated financial statements are free of 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 consolidated financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the 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.

Deloitte & Touche LLP

October 20, 2017

INDEPENDENT AUDITORS' REPORT ON COMPLIANCE FOR EACH MAJOR FEDERAL PROGRAM; REPORT ON INTERNAL CONTROL OVER COMPLIANCE; AND REPORT ON SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS REQUIRED BY THE UNIFORM GUIDANCE

To the Board of Trustees of The Pennsylvania State University
University Park, Pennsylvania

Report on Compliance for Each Major Federal Program

We have audited The Pennsylvania State University and subsidiaries (the "University") compliance with the types of compliance requirements described in the OMB Compliance Supplement that could have a direct and material effect on each of the University's major federal programs for the year ended June 30, 2017. 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.

Our audit, described below, did not include the operations of the Penn State Health subsidiaries, including Saint Joseph's Regional Health Network and Medical Group and Nittany Health, Inc. and The Corporation for Penn State subsidiaries, including Penn State Recycling Markets Center, Research Park Management Corporation, The Pennsylvania State University Philanthropic Fund, Ben Franklin Technology Center of Central & Northern PA, Penn State Research Foundation, Research Park Hotel Corporation, and Nittany Insurance Company, because these subsidiaries did not receive federal awards subject to audit in accordance with the Uniform Grant Guidance. The University's consolidated financial statements include the Pennsylvania College of Technology ("PCT"), which received \$55,456,446 in federal awards which are not included in the University's Schedule of Expenditures of Federal Awards during the year ended June 30, 2017. Our audit, described below, did not include the operation of the PCT because PCT engaged other auditors to perform an audit in accordance with OMB Compliance Supplement for the year ended June 30, 2017.

Management's Responsibility

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

Auditors' Responsibility

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

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

Opinion on Each Major Federal Program

In our opinion, the University complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2017.

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 University's internal control over compliance.

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

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

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

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

We have audited the consolidated financial statements of the University as of and for the year ended June 30, 2017, and have issued our report thereon dated October 20, 2017, which contained an unmodified opinion on those consolidated financial statements. Our audit was conducted for the purpose of forming an opinion on the consolidated financial statements as a

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

Deloitte & Touche LLP

March 26, 2018

THE PENNSYLVANIA STATE UNIVERSITY

SCHEDULE OF FINDINGS AND QUESTIONED COSTS FOR THE YEAR ENDED JUNE 30, 2017

SECTION I—SUMMARY OF AUDITORS' RESULTS		
<i>Financial Statements</i>		
Type of report the auditor issued on whether the financial statements audited were prepared in accordance with GAAP: UNMODIFIED		
Internal control over financial reporting:		
• Material weakness (es) identified?	<input type="checkbox"/> _yes	<input checked="" type="checkbox"/> _no
• Significant deficiency (ies) identified?	<input type="checkbox"/> _yes	<input checked="" type="checkbox"/> _none reported
Noncompliance material to financial statements noted?	<input type="checkbox"/> _yes	<input checked="" type="checkbox"/> _no
Federal Awards		
Internal control over major federal programs:		
• Material weakness (es) identified?	<input type="checkbox"/> _yes	<input checked="" type="checkbox"/> _no
• Significant deficiency (ies) identified?	<input type="checkbox"/> _yes	<input checked="" type="checkbox"/> _none reported
Type of auditor's report issued on compliance for major federal programs: Unmodified.		
Any audit findings disclosed that are required to be reported in accordance with 2 CFR 200.516(a)?	<input type="checkbox"/> _yes	<input checked="" type="checkbox"/> _no
Identification of major federal programs:		
<ul style="list-style-type: none"> • Student Financial Aids Cluster (See "Schedule of Expenditures of Federal Awards for Cluster CFDA) • Cooperative Extension Service - CFDA 10.500 • State Administrative Matching Grants For the Supplemental Nutrition Assistance Program – CFDA 10.561 • Airport Improvement Program – CFDA 20.106 • Department of Defense – Non-Specified – CFDA 12.U01 		
Dollar threshold used to distinguish between type A and type B programs:	\$ 3,888,810	
Auditee qualified as low-risk auditee?	<input checked="" type="checkbox"/> _yes	<input type="checkbox"/> _no

SECTION II — FINANCIAL STATEMENT FINDINGS

The audit disclosed no items required to be disclosed in this section.

SECTION III—FEDERAL AWARD FINDINGS AND QUESTIONED COSTS

The audit disclosed no items required to be disclosed in this section.

THE PENNSYLVANIA STATE UNIVERSITY

**SCHEDULE OF STATUS ON PRIOR YEAR FINDINGS
FOR THE YEAR ENDED JUNE 30, 2017**

Prior year audit Schedule of Findings and Questioned Costs did not contain any findings; therefore no items required to be reported in this section.
