

OREGON STATE UNIVERSITY
SINGLE AUDIT REPORT
FOR THE YEAR ENDED JUNE 30, 2020

**OREGON STATE UNIVERSITY
SINGLE AUDIT REPORT
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**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***

Members of the Board of Trustees
Oregon State University
Corvallis, Oregon

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the business-type activities and the aggregate discretely presented component units of Oregon State University (University), a component unit of the State of Oregon, as of and for the years ended June 30, 2020 and 2019, and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated October 30, 2020. Our report includes a reference to other auditors who audited the financial statements of the Oregon State University Foundation and the Agricultural Research Foundation, which comprise the aggregate discretely presented component units, as described in our report on the University's financial statements. This report does not include the results of the other auditors' testing of internal control over financial reporting or compliance and other matters that are reported on separately by those auditors. The financial statements of the discretely presented component units were not audited in accordance with *Government Auditing Standards*.

Internal Control over Financial Reporting

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

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

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified. We did identify a certain deficiency in internal control, described as item 2020–001 in the accompanying schedule of findings and questioned costs that we consider to be a significant deficiency.

The Board’s Response to Findings

The Board’s response to the finding identified in our audit is described in the accompanying schedule of findings and questioned costs. The Board’s response was not subjected to the auditing procedures applied in the audit of the financial statements and, accordingly, we express no opinion on it.

Compliance and Other Matters

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

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the result 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.



CliftonLarsonAllen LLP

Denver, Colorado
October 30, 2020



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

Members of the Board of Trustees
Oregon State University
Corvallis, Oregon

Report on Compliance for Each Major Federal Program

We have audited Oregon State University's (the University) compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on the University's major federal programs for the year ended June 30, 2020. The University's major federal programs are identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs.

Management's Responsibility

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

Auditors' Responsibility

Our responsibility is to express an opinion on compliance for 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 the major federal programs 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 the major federal programs. However, our audit does not provide a legal determination of the University's compliance.

Opinion on Each Major Federal Program

In our opinion, Oregon State University complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on its major federal programs for the year ended June 30, 2020.

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 the major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for the major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over compliance.

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

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that were not identified. 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 financial statements of the business-type activities and the aggregate discretely presented component units of the University as of and for the years ended June 30, 2020, and the related notes to the financial statements, which collectively comprise the University's basic financial statements. We issued our report thereon dated October 30, 2020, which contained unmodified opinions on those financial statements. Our report includes a reference to other auditors who audited the financial statements of the Oregon State University Foundation and the Agricultural Research Foundation, which comprise the aggregate discretely presented component units, as described in our report on the University's financial statements.

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the basic financial statements. 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 basic financial statements.

Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards is fairly stated in all material respects in relation to the basic financial statements as a whole.



CliftonLarsonAllen LLP

Denver, Colorado
May 21, 2021

**Oregon State University
Schedule of Expenditures of Federal Awards
For the Year Ended June 30, 2020**

<i>Cluster</i>	<i>Federal Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed through to Subrecipients</i>	<i>Total Expenditures</i>
Student Financial Aid	Department of Education	Federal Direct Student Loans	84.268				\$ 137,212,383
		Federal Pell Grant Program	84.063				29,125,196
		Federal Perkins Loan Program Federal Capital Contributions	84.038				23,296,717
		Federal Supplemental Educational Opportunity Grants	84.007				987,906
		Federal Work-Study Program	84.033				1,068,461
Total Student Financial Aid Cluster							191,690,663
Research and Development	Agency for International Development	Aquaculture and Fisheries Collaborative Research Support Program	98.000				(679)
	Department of Agriculture	1890 Institution Capacity Building Grants	10.216	Kentucky State University	2018-1959		30,790
		1994 Institutions Research Program	10.227	Northwest Indian College	28754		(80)
		1994 Institutions Research Program	10.227	Northwest Indian College	NWIC-28757-01		19,588
		A bottom-up, stakeholder-driven CMS for regional biomass carbon dynamics: Phase 2	10.000				11,322
		A Climate Change Assessment of Vegetation, Fire, and Ecosystem Services for Tribal lands in the Pacific Northwest	10.000				2,423
		A Headwater Stream Multi-Species Inventory of Fish and Amphibians Using Environmental DNA	10.000				(682)
		A machine vision system for forest harvesting equipment: Individual tree detection, measurement, and localization using stereoscopy an digital image processing	10.000				17,674
		A Workshop for developing a standardized sampling protocol for forest pollinators	10.000				1,500
		Advancing the characterization and management of community wildfire risk	10.000				33,764
		Agricultural Research Basic and Applied Research	10.001	University of Nebraska	25-6235-0275-004		4,359
		Agricultural Research Basic and Applied Research	10.001	USDA - Ag Research Service	59-5082-6-001		126,523
		Agricultural Research Basic and Applied Research	10.001			193,563	5,518,286
		Agriculture and Food Research Initiative (AFRI)	10.310	Colorado State University	G-91600-7		14,478
		Agriculture and Food Research Initiative (AFRI)	10.310	Michigan State University	RC105883OR		35,839
		Agriculture and Food Research Initiative (AFRI)	10.310	Rutgers, The State University of New Jersey	5489 / PO S2119064		(16)
		Agriculture and Food Research Initiative (AFRI)	10.310	Texas A & M University	06-M1702385		31,855
		Agriculture and Food Research Initiative (AFRI)	10.310	University of Arizona	PO 185016		(60)
		Agriculture and Food Research Initiative (AFRI)	10.310	University of California, Merced	22488OS		97,235
		Agriculture and Food Research Initiative (AFRI)	10.310	University of Idaho	AN0746-SB-846463		93,883
		Agriculture and Food Research Initiative (AFRI)	10.310	University of Idaho	BJKQ80-SB-002 P0053120		164,960
		Agriculture and Food Research Initiative (AFRI)	10.310	University of Maryland	Z5775004		36,046
		Agriculture and Food Research Initiative (AFRI)	10.310	University of Virginia	GG12213 PO 2188867		95,168
		Agriculture and Food Research Initiative (AFRI)	10.310			680,464	3,391,653
		Alfalfa and Forage Research Program	10.330	Washington State University	131889-G003802		19,885
		Amenity migration and public lands in the western U.S.	10.000				(0)
		AMPHIBIAN DISEASE ECOLOGY: CONTEXT MATTERS	10.000				1,083
		Analysis of Forest Service Inventory Data from Forested Habitats Across the USA	10.000				(3,851)
		Animal Health and Disease Research	10.207				70,224
		ANNUAL VARIATION IN ABUNDANCE OF SMALL MAMMALS ON THE H. J. ANDREWS EXPERIMENTAL FOREST, OREGON	10.000				21,646
		Annual Variation in Abundance of Small Mammals on the H. J. Andrews Experimental Forest, Oregon	10.000				56
		Application & expansion of FIA monitoring data to answer new questions	10.000				83,502
		Aquatic Biodiversity in Forested Environments	10.000				3,273
		Aquatic food base beta diversity in the Fossil-Verde ecosystem	10.000				407

**Oregon State University
Schedule of Expenditures of Federal Awards
For the Year Ended June 30, 2020**

<i>Cluster</i>	<i>Federal Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed through to Subrecipients</i>	<i>Total Expenditures</i>
		Assessing and Addressing Effects of Forest Management on Pacific Marten Habitat in Western Forests	10.000				3,648
		Assessing forest ecosystem health with long-term plots and high resolution remote sensing	10.000				34,153
		Biological Control for Knotweeds	10.000				14,207
		Biomass Research and Development Initiative Competitive Grants Program (BRDI)	10.312	The Ohio State University	60068526		45,504
		Biotechnology Risk Assessment Research	10.219				184,015
		Black stain root disease: An emerging threat to young Douglas-fir forests in the Oregon Coast range	10.000				3,499
		Center for Expediting Specialty Crop Registrations	10.000	Oregon Dept of Agriculture	ODA-4206-IG		28,755
		Center for Intensive Planted-Forest Silviculture (CIPS)	10.000				472
		Climate Change Effects on Coastal Riverscapes in the Pacific Northwest	10.000				18,383
		Collaboration for improving sample identification and developing genomic resources for western redcedar (<i>Thuja plicata</i>).	10.000				40,684
		Collaboration for improving species identification and developing genomic resources for <i>Cedrela odorata</i>	10.000				(71)
		Community Forestry, Forest Conservation, and Rural Community Development in the Western USA	10.000				17,411
		Cooperative Forestry Research	10.202				962,863
		Critical Zone Science along the Pacific Coastal Margin	10.000				313
		Crop Insurance	10.450				2,218,018
				University of California Agriculture & Natural Resources	SA14-2309-12		(2,125)
		Crop Protection and Pest Management Competitive Grants Program	10.329	University of California, Davis	SA18-4060-06		26,723
		Crop Protection and Pest Management Competitive Grants Program	10.329				60,255
		Demography of Northern Spotted Owls in Oregon and Washington	10.000				784,875
		Demography of Northern Spotted Owls in Oregon and Washington.	10.000				100,956
		Demonstrating novel soil management and plant nutrition regimes to protect water quality, improve soil, and increase plant health and disease resistance in sweet cherry orchards	10.000	Dry Hollow Family Orchards	FY17-3205		34,153
		Density Management and Riparian Buffer Study (DMS): Aquatic Vertebrates and Habitats Component, Pulse at Ten Years after 2nd Thinning	10.000				4,166
		Designing Cover Crop Systems for Eastern Oregon	10.000				27,934
		Developing a Wilderness Character Monitoring Protocol for the US Forest Service	10.000				4,777
		DEVELOPING BIVALVE FARMING IN HAWAII, YEAR 6	10.000	University of Hawaii	Z10213015		18,000
		Developing Bivalve Farming in Hawaii, Year 6	10.000	University of Hawaii	Z10215005		11,265
		Developing Forest Health Indicators of Climate Change in the Pacific Northwest to Identify Forested Watersheds at Risk and Develop Adaptation Strategies to Protect Forests: A Literature Review	10.000				14,581
		Developing the Next Generation Dynamic Vegetation Model for the Pacific Northwest	10.000				41,321
		Development of the Next Generation Dynamic Vegetation Model for the Pacific Northwest	10.000				360
		Dry Farming Collaborative participatory research and decision-making tools, information sharing platforms, and resource development	10.000				317
		ECOLOGICAL CONTEXTS OF AMPHIBIAN PATHOGENS	10.000				242
		Effect of thinning in riparian areas in headwater streams in northern California	10.000				598
		Enhancing long term research and data management at the H.J. Andrews Experimental Forest	10.000				61,194

**Oregon State University
Schedule of Expenditures of Federal Awards
For the Year Ended June 30, 2020**

<i>Cluster</i>	<i>Federal Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed through to Subrecipients</i>	<i>Total Expenditures</i>
		Environmental Quality Incentives Program	10.912	Pheasants Forever Inc	OSU LPCI-2016-04		(65)
		Environmental Quality Incentives Program	10.912				56,202
		Evaluating and comparing amitraz resistance in Varroa mite populations in the United States and Canada	10.000	Project Apis m.	2019-2415		22,818
		Evaluating assisted migration options for adapting to climate change	10.000				7,748
		Evaluating Biomass Equations for Pacific Northwest Tree Species	10.000				66,325
		Evaluating Forest Collaboratives as a Model of Natural Resource Governance	10.000				0
		Evaluating nutritional composition and bee attractiveness of predominant floral species in Project Apis m. seed mixes and understanding the transmission of Nosema ceranae and viruses between managed and native bee hosts foraging on these floral species	10.000	Project Apis m.	Not Available		44,993
		Evaluating stand thinning as a means to mitigate drought: The influence of topography	10.000				31,089
		Evaluating the impacts of Douglas-fir competition on the physiological processes of Oregon white oak	10.000				4,795
		Evaluating the nectar and pollen resources of alternative livestock forages to alfalfa	10.000	Project Apis m.	2019-1988		12,819
		Evaluation of Maintenance of Post-Fire Forest Cover in National Forests	10.000				4,253
		Evolution of rivers and landscapes in the Pacific Northwest: a critical zone perspective	10.000				44,496
		Examining Experiences of Food Hardships and SNAP Enrollment among Young-Old and Older Americans: A Multi-Method Approach	10.000	University of Kentucky Research Foundation	7800004891 / 3200002185-19-243		69,391
		Examining the resilience and well-being constraints of rural households in Oregon's Northwest Forest Plan region, and implications for the Forest Service strategic objective of providing benefits to the public	10.000				(123)
		Examining the Utilization of Cellulose Nanocrystals to Reduce the Carbon Footprint of Concrete	10.000	U.S. Endowment for Forestry & Communities, Inc.	E19-78		57,750
		Exotic Mollusk Survey	10.000	Oregon Dept of Agriculture	ODA-4102-IG		(3,243)
		Exotic species invasion dynamics in eastern Oregon and the Blue Mountain Ecoregion (BME)	10.000				109,415
		Federal Cooperators Wood-Based Composite Center	10.000				360
		Fifty years of data: Natural history comparisons in Northern Rubber boas (Charina bottae) with long-term recapture records.	10.000				1,118
		Fire history in central Oregon: role of landscape heterogeneity and application to current management	10.000				45,678
		Fisher recolonization and recovery in Oregon	10.000				67,739
		Food web structure in freshwaters	10.000				79,459
		Forest Health Protection	10.680				70,097
		Forest Soil Carbon Vulnerability in Pacific Northwest Forests	10.000				5,450
		Forestry Research	10.652	U.S. Endowment for Forestry & Communities, Inc.	12-CA-11330126-090		(76)
		Forestry Research	10.652				7,819
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	201502587-20-OSU-SantaMaria-OH		0
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-A081		1,679
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S010		(44)
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S013		3,345
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S045		6,451
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S046		(0)
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S050		1,226
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S051		4
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S052		(702)
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S053		3,047

**Oregon State University
Schedule of Expenditures of Federal Awards
For the Year Ended June 30, 2020**

Cluster	Federal Grantor	Program Title	CFDA Number	Pass-Through Entity	Pass-Through Identifying Number	Passed through to Subrecipients	Total Expenditures
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S054		10,022
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S059		(525)
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S060		11,714
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S068		97
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A18-0916-S079		(343)
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A20-1347-S013		6,078
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A20-1347-S014		57
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A20-1347-S015		2,191
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A20-1347-S016		2,862
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A20-1347-S023		30
		Grants for Agricultural Research, Special Research Grants	10.200	University of California, Davis	A20-1347-S032		58,958
					AP1008-SB2-870848 /PO PA048287		
		Grants for Agricultural Research, Special Research Grants	10.200	University of Idaho			13,045
		Grants for Agricultural Research, Special Research Grants	10.200	University of Washington	UWSC11503 / BPO50236		18,801
		Grants for Agricultural Research, Special Research Grants	10.200	University of Washington	UWSC11598 / BPO45072		88,276
		Grants for Agricultural Research, Special Research Grants	10.200	University of Washington	UWSC11798 BPO# 47457		587
		Grants for Agricultural Research, Special Research Grants	10.200	University of Washington	UWSC9743/BPO31410		(6,956)
		Grants for Agricultural Research, Special Research Grants	10.200	Washington State University	105577 G004147		170,377
		Grants for Agricultural Research, Special Research Grants	10.200	Washington State University	105577 G003659		(11)
		Grants for Agricultural Research, Special Research Grants	10.200				29,624
		Higher Education Graduate Fellowships Grant Program	10.210				45,488
					201603794-03 / A17-0222- S011		
		Homeland Security Agricultural	10.304	University of California, Davis			26,842
		Identifying aquatic species using environmental-DNA tools	10.000				98,556
		Identifying Barriers of Diversity and Inclusion in Forestry	10.000				26,319
		Implementation and effects monitoring of vegetation restoration treatments on Peck's mariposa lily	10.000				8,066
		Implementing Meadow Creek Cattle Grazing Practices to Evaluate Compatibility with Recovery of Threatened Salmonids	10.000				19,765
		Influence of Landscape Disturbance on Opportunities to Achieve Land and Fire Management Objectives	10.000				22,885
		Innovations in mapping forest attribute change for stands, landscapes, and regions	10.000				21,667
		Integrated Programs	10.303	Washington State University	119274 G003236		32
		Integrated Programs	10.303	Washington State University	136643 G004163		12,026
		Integrated Programs	10.303				198,699
		Invasive species and fire and fuel dynamics in eastern Oregon and the Blue Mountain Ecoregion	10.000				21,700
		Investigating effects of sterol biosynthesis inhibiting fungicides on honey bee health and pollen phytosterol composition	10.000	Project Apis m.	2018-1970		49,796
		Investigating food web responses to stage-0 restoration in the South Fork McKenzie River	10.000				38,580
		Investigating the effects of mixed-severity wildfires on fisher population dynamics in northern California and southern Oregon	10.000				104,060
		Landscape Assessment	10.000				47,939
		Lidar- and Phodar- based modeling of stand structure attributes, biomass, and fuels	10.000				36,034
		Lidar for selecting stands for thinning and tree-lists	10.000				4,786
		Life History Resilience in Coastal Salmonids	10.000				1,193
		Lober and East Hills Private Land Forest Inventory	10.000				17,445
		Mapping and identification of sources of lead hotspots in Portland, OR using isotope and analysis of moss	10.000				4,918
		Mapping and Understanding the Ventenata Invasion in the Blue Mountain Ecoregion	10.000				25,660

**Oregon State University
Schedule of Expenditures of Federal Awards
For the Year Ended June 30, 2020**

<i>Cluster</i>	<i>Federal Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed through to Subrecipients</i>	<i>Total Expenditures</i>
		Mapping Biomass from 1984-2014 Across the Pacific Northwest from LandTrendr Products	10.000				20,215
		MCH: Development of a Novel Formulation for Tree Protection and Assessment of Ecological Risks to Forest Pollinators	10.000				(589)
		Meadow Creek Pollinator Study - Bee-flower Relationships and Use of Restoration Plantings in a Restored Riparian System	10.000				22,542
		Meadow Creek Restoration Monitoring - Assessing Impacts of Climate Change, Grazing, and Restoration Treatments on Vertebrates, Invertebrates, and Vegetation	10.000				(5,455)
		Meadow Creek Vegetation Responses to Cattle, Deer, and Elk Herbivory for Recovery of Threatened Salmonids and Associated Metrics of Stream and Riparian Health	10.000				70,258
		Meadow Creek Vegetation Responses to Ungulate Herbivory for Recovery of Threatened Salmonids and Stream and Riparian Restoration	10.000				59,864
		Microbiological Quality of Agricultural Water on Oregon's Vegetable and Berry Farm	10.000	Oregon Dept of Agriculture	ODA-3934-GR		0
		Monitoring the long-term impacts of laminated root rot on Douglas-fir forests in western OR and WA	10.000				46,724
		Multidecadal Forest Vegetation and Change Assessment Over Regional Landscapes	10.000				126,393
		Multi-scale analysis and planning to support Forest Service fire management policy	10.000				14,579
		Multi-scale assessment of wildfire impacts to human and ecological values to support Forest Service fire management policy	10.000				239,922
		National Food Safety Training, Education, Extension, Outreach, and Technical Assistance Competitive Grants Program	10.328	University of Idaho	AL1461-SB1-875935 / PA050473		1,296
		NORTH AMERICAN BAT MONITORING PROGRAM (NABat) USFS R6 COORDINATION AND SUPPORT	10.000				57,158
		Northwest Fire Science Consortium	10.000				38,746
		Northwest Tree Improvement Cooperative	10.000				57,689
		Operational Feasibility Analysis for Cable-Assisted Logging Systems: Equipment Stability and Soil Disturbance	10.000				99,880
		Organic Agriculture Research and Extension Initiative	10.307	Purdue University	8000064231-AG		(110)
		Organic Agriculture Research and Extension Initiative	10.307	Purdue University	F0004577402021		4,751
		Organic Agriculture Research and Extension Initiative	10.307	University of Georgia	SUB0001847		171,676
		Organic Agriculture Research and Extension Initiative	10.307			842,855	1,334,931
		Partnership Agreements	10.699				60,159
		Payments to Agricultural Experiment Stations Under the Hatch Act	10.203				4,117,877
		Phytophthora Species Diagnostics	10.000				177,967
		Plant and Animal Disease, Pest Control, and Animal Care	10.025	Colorado State University	G-92892-02		41,375
		Plant and Animal Disease, Pest Control, and Animal Care	10.025	Oregon Dept of Agriculture	ODA-4041-IG		54
		Plant and Animal Disease, Pest Control, and Animal Care	10.025	Oregon Dept of Forestry	ODF-1099-18		87,279
		Plant and Animal Disease, Pest Control, and Animal Care	10.025			9,451	678,816
		Plant Materials for Conservation	10.905				49,316
		PNW Climate Hub Outreach Project	10.000				22,600
		Post-fire response to forest management: Mitigation for improved water quality performance	10.000				31,394
		Post-fire response to forest management: Mitigations for improved water quality performance	10.000				7,193
		Potatoes USA Trials	10.000	Potatoes USA	19-79		568
		Potatoes USA Trials	10.000	Potatoes USA	20-79		27,350
		Predator-prey ecology and management in the Pacific Northwest	10.000				9,472
		Processing and Analysis of Bioacoustics Data	10.000				134,359
		Regional- to National-Scale Landscape Modeling of Water Quality	10.000				20,770
		Research Natural Area Establishment, Management, Data and Portal	10.000				999

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		Response of Forest Aquatic Ecosystems to Riparian Canopy Modifications	10.000				51,866
		RPA Land-Use Modeling	10.000				116,472
		Sagebrush Steppe Monitoring Study	10.000				91,745
		Satellite Direct Readout Collaboration	10.000				16,538
		Seed production of Great Basin native forbs --- Stable, efficient native forb seed production using small amounts of supplemental irrigation water; and seeding practices. Seed production of bluebunch wheatgrass.	10.000				44,945
		Small Business Innovation Research	10.212	Hexpoint Technologies	2015-01		(1,336)
		Small Business Innovation Research	10.212	K2 BioMicrosystems LLC	FY18-693		(132)
		Small Business Innovation Research	10.212	Rapid Made Inc	19-0534		33,134
		Soil and Water Conservation	10.902				506,503
		Soil carbon stabilization through physical, chemical, and biological weathering along the Pacific Coastal Margin	10.000				18,938
		Soil Survey	10.903				55,050
		Southern Blues CFLRP Forest Vegetation and Fuels Multi-Party Monitoring Program	10.000				(0)
		Southern Blues CFLRP Forest Vegetation and Fuels Multi-Party Monitoring Program - Modification #4	10.000				127,592
		Spatial copula modeling of forest inventory variables	10.000				27,321
		Spatial Ecology and Survival of Small Carnivores and Small Mammals in the H.J. Andrews Experimental Forest, Oregon	10.000				(953)
		Spatial Ecology and Survival of Small Carnivores in the HJ Andrews Experimental Forest, Oregon	10.000				37,435
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	5010		34,131
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	5011		33,890
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	5012		54,388
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	5014		71,703
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA 3515 GR		(42)
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA 3516 GR		10
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA-18-008-GR		107,681
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA-18-009-GR	12,165	84,735
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA-18-010-GR		31,193
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA-18-011-GR		67,490
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA-19008-GR		26,062
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA-19009-GR		7,610
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA-19010-GR		28,503
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA-3693-GR		(17,239)
		Specialty Crop Block Grant Program - Farm Bill	10.170	University of California Riverside	S-001084		47,146
		Specialty Crop Block Grant Program - Farm Bill	10.170	Washington State Dept			
		Specialty Crop Block Grant Program - Farm Bill	10.170	Agriculture	K2868		1,593
		Specialty Crop Research Initiative	10.309	Clemson University	1766-207-2020386		67,267
		Specialty Crop Research Initiative	10.309	Colorado State University	G-01363-06		78,387
		Specialty Crop Research Initiative	10.309	Cornell University	73999-10418		62
		Specialty Crop Research Initiative	10.309	Cornell University	79598-10785		25,250
		Specialty Crop Research Initiative	10.309	North Carolina State University	2016-0228-02		88,706
		Specialty Crop Research Initiative	10.309	North Carolina State University	2017-0398-16		154,790
		Specialty Crop Research Initiative	10.309	Texas A & M University	M1900059		93,920
		Specialty Crop Research Initiative	10.309	University of California, Davis	A20-1531-S001		5,287
		Specialty Crop Research Initiative	10.309	University of Georgia	SUB00000426		10,885
		Specialty Crop Research Initiative	10.309	University of Minnesota	H006335005		89,857
		Specialty Crop Research Initiative	10.309	University of Minnesota	H007082505		242,669
		Specialty Crop Research Initiative	10.309	Washington State University	123501-G003954		321,454
		Specialty Crop Research Initiative	10.309	Washington State University	125970-G003493		26,257
		Specialty Crop Research Initiative	10.309	Washington State University	133321-G004115		10,578

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		Specialty Crop Research Initiative	10.309			491,142	835,155
		Strengthen Underwriting and Oversight Activities Using PRISM Spatial Climate Data Sets	10.000				(0)
		Sun Grant Program	10.320	South Dakota State University	3TB386		7,151
		Sun Grant Program	10.320	South Dakota State University	3TB640	557,264	658,849
		Support for the H.J. Andrews Experimental Forest Field Station	10.000				190,532
		Supporting "Climate-Smart Ranching" in NE Oregon with a Community-Based Observing Network (CBON)	10.000				5,300
		Sustainable Agriculture Research and Education	10.215	Montana State University	G145-20-W7503		3,621
		Sustainable Agriculture Research and Education	10.215	Montana State University	G146-20-W7503		25,093
		Sustainable Agriculture Research and Education	10.215	Montana State University	G159-20-W7503		10,737
		Sustainable Agriculture Research and Education	10.215	Montana State University	G233-19-W7502		43,500
		Sustainable Agriculture Research and Education	10.215	Montana State University	G245-19-W7502		2,577
		Sustainable Agriculture Research and Education	10.215	Montana State University	G258-19-W7500		20,074
		Sustainable Agriculture Research and Education	10.215	Montana State University	G335-20-W7899		794
		Sustainable Agriculture Research and Education	10.215	Utah State University	140867025-212		(202)
		Sustainable Agriculture Research and Education	10.215	Utah State University	150893-00001-168		43,542
		Sustainable Agriculture Research and Education	10.215	Utah State University	150893-00001-177		6,050
		Sustainable Agriculture Research and Education	10.215	Utah State University	200592-383		11,400
		Sustainable Agriculture Research and Education	10.215	Utah State University	200592-386		13,992
		Sustainable Agriculture Research and Education	10.215	Utah State University	200592-443		6,468
		Sustainable Agriculture Research and Education	10.215	Utah State University	201207-516		(1,107)
		Sustainable Agriculture Research and Education	10.215	Utah State University	201207-543		20,839
		Sustainable Agriculture Research and Education	10.215	Utah State University	201207-549		49,082
		Sustainable Agriculture Research and Education	10.215	Utah State University	201207-555		96,965
		Sustainable Agriculture Research and Education	10.215	Utah State University	201207-573		19,945
		Sustainable Agriculture Research and Education	10.215	Utah State University	201207-576		798
		Synthesis of Long-Term Data from the Starkey Experimental Forest and Range and Associated Publications on Ungulate Ecology	10.000				524
		Tracking aquatic species in streams using environmental-DNA	10.000				97,395
		Tracking fish at their upper extent	10.000				(1,300)
		Treatment effects on predicted fire behavior	10.000				32,928
		Two "new" needle diseases of conifers in the Pacific Northwest Region caused by Phytophthora (red needle cast) and Rhizoctonia (web blight)	10.000				37,661
		Understanding and improving honey bee nutrition to mitigate colony losses	10.000	Project Apis m.	2018-2149		(496)
		Understanding more about the taxonomy of non-game freshwater fishes in the Pacific Northwest	10.000				852
		Understanding the role of fire refugia in promoting forest ecosystem resilience	10.000				65,491
		Using an Agent-based Model to Evaluate Landscape Restoration Scenarios	10.000				(34)
		Using Lidar to quantify snag densities and structure in a recently burned forest	10.000				7,862
		Using lidar to select stands for thinning for the Umpqua and Willamette NF	10.000				28,668
		Using the new verbenone antiaggregant formulation "SPLAT" to protect whitebark pine from mountain pine beetle infestation	10.000				(0)
		VAR-FED Hardwoods Silviculture Res	10.000				104
		VAR-FED Swiss Needle Cast Cooperative	10.000				12,658
		Vegetation mapping and analysis to support all-lands forest management and shared stewardship in Region 3.	10.000				56,188
		Vegetation mapping and analysis to support all-lands forest management and shared stewardship in Region 4.	10.000				19,346
		Vegetation mapping and analysis to support shared stewardship and species management in R6.	10.000				7,000

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		Verde River Flows and Aquatic Invertebrates	10.000				2,359
		Watersheds Research Coop - Federal Cooperators	10.000				29,317
		Wildfire Risk Analytics into Land and Fire Management to Meet Resource Objectives	10.000				137,464
		Wildland fire managers' use of fire weather data in strategic and tactical decision-making across the United States: a combined fire modeling and social science-based analysis	10.000			22,988	22,988
		Wildlife Services	10.028				135,821
		Wood Utilization Assistance	10.674	Oregon Forest Resources Institute	20-1006		26,591
		Wood Utilization Assistance	10.674	U.S. Endowment for Forestry & Communities, Inc.	E17-25		104,436
		Wood Utilization Assistance	10.674				230,754
		Woody Plants traits as predictors of resilience to environmental stress	10.000				3,973
		Working Group for Advancement of Cellulose Nano-materials Use in Cement Based Materials	10.000	U.S. Endowment for Forestry & Communities, Inc.	E18-12	126,273	163,580
	<i>Department of Agriculture Total</i>					2,936,164	30,783,468
Department of Commerce		Arrangements for Interdisciplinary Research Infrastructure	11.619	Colorado State University	G-00745-8		181,799
		Carbon isotope work for cross-calibration and comparison of membrane-free in-situ underwater gas-analyzer	11.000	Opto-Knowledge Systems Inc	18120501		36,183
		CCA Proof of Concept Grant/OSU-Cascades ESE Department	11.000	VertueLab	CG-SOW-2018-BladeRunner Energy		46,986
		Center for Sponsored Coastal Ocean Research Coastal Ocean Program	11.478			42,640	591,487
		Center for Sponsored Coastal Ocean Research Coastal Ocean Program	11.478	George Mason University	E2039521		123,502
		Center for Sponsored Coastal Ocean Research Coastal Ocean Program	11.478	University of Maryland Center for Environmental Science	SA075258490 PO73557		49,825
		Climate and Atmospheric Research	11.431			144,919	789,917
		Climate and Atmospheric Research	11.431	University Corporation for Atmospheric Research	SUBAWD001689		9,587
		Climate and Atmospheric Research Cluster Grants	11.020	Woods Hole Oceanographic Institution	A101397		95,857
		Cluster Grants	11.020	VertueLab	CG-SOW-OSU-2019-WheywardSpirit SUBK00009745 / PO#		(0)
		Coastal Zone Management Administration Awards	11.419	University of Michigan	3005096788	20,089	103,075
		Deschutes River Ceratanova Shasta Presence Evaluation II	11.000	Confederated Tribes of Warm Springs	TC-000011052-000		27,068
		Deschutes River Subbasin Ceratanova Shasta Presence Evaluation III	11.000	Confederated Tribes of Warm Springs	2019-2250 / TC-000011466-000		41,225
		Eelgrass Monitoring - OSU Graduate Student	11.000	Oregon Division of State Lands	20-519		15,004
		Enhancing coastal zone policy, management, and research through end user-driven quantification and public dissemination of carbon stocks data for Pacific Northwest tidal wetlands	11.000	Institute for Applied Ecology	3004281942-001		109,553
		Feasibility planning for Pacific Northwest blue carbon finance projects	11.000	Institute for Applied Ecology	SUBK0009704		5,682
		Fiber Connection from OSU HMSC to NOAA MOC-P	11.000				70,982
		Fisheries Development and Utilization Research and Development Grants and Cooperative Agreements Program	11.427				377,885
		Geodetic Surveys and Services (Geodesy and Applications of the National Geodetic Reference System)	11.400	University of New Hampshire	17-035		65,023
		Glider-Based Acoustic Tracking of Salmon off Washington	11.000				37,250

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		Habitat Conservation	11.463	Tillamook Estuaries Partnership	RM-17-04		31,126
		Identifying co-occurrence between whales and fixed gear fishing effort off Oregon to reduce entanglement risk	11.000	Oregon Dept of Fish & Wildlife	174-19		18,862
		Integrated Ocean Observing System (IOOS)	11.012	Monterey Bay Aquarium Research Institute	1611121 - Y4 2019-2020		155,445
		Integrated Ocean Observing System (IOOS)	11.012	University of Washington	UWSC9206 / BPO 16539		1,173,729
		Living Marine Resources Cooperative Science Center at OSU	11.000	University of Maryland Eastern Shore	NA16SEC4810007 / Year 1		16,940
		Living Marine Resources Cooperative Science Center at OSU	11.000	University of Maryland Eastern Shore	NA16SEC4810007 / Year 2		64,110
		Living Marine Resources Cooperative Science Center at OSU	11.000	University of Maryland Eastern Shore	NA16SEC4810007 / Year 4		27,102
		Living Marine Resources Cooperative Science Center at OSU	11.000	University of Maryland Eastern Shore	NA16SEC4810007-Year 3 / PO7449		81,247
		Marine Debris Program	11.999	University of Connecticut	PO 319469 / KFS# 5643520		5,048
		Marine Mammal Data Program	11.439				86,185
		Measurement and Engineering Research and Standards	11.609				54,829
		Measurement and Engineering Research and Standards	11.609	Colorado State University	G-99042-05		1,634
		Measurement and Engineering Research and Standards	11.609	University of Alabama, Huntsville	2017-081		78,497
		Measuring Alaska Saltwater Charter Sport Fishing Demand Using Revealed Preference Methods	11.000	ECS Tech	19001469		41,619
		National Oceanic and Atmospheric Administration (NOAA) Cooperative Institutes	11.432			231,554	2,716,525
		National Oceanic and Atmospheric Administration (NOAA) Cooperative Institutes	11.432	University of Maryland	18171-Z7813007		7,562
		National Oceanic and Atmospheric Administration (NOAA) Cooperative Institutes	11.432	University of Maryland	83069-Z7554207		43,777
		Ocean Acidification Program (OAP)	11.017			11,548	127,137
		Ocean Exploration	11.011			40,567	74,783
		Post Hurricane Dorian survey of beach-dune-barrier ecomorphodynamics along the Cape Lookout National Seashore	11.000	CSS Inc	GSA8-19-OSU / GSA8-200-03		30,185
		Sea Grant Support	11.417			178,109	1,718,205
		Unallied Science Program	11.472	North Pacific Research Board	1712		20,853
		Unallied Science Program	11.472	North Pacific Research Board	1723		42,512
		Unallied Science Program	11.472	North Pacific Research Board	1801		72,374
		Unallied Science Program	11.472	North Pacific Research Board	1903A / 1903B		17,066
		Unallied Science Program	11.472	North Pacific Research Board	1906A/1906B/1906OSRI		13,594
		Unallied Science Program	11.472	North Pacific Research Board	1909A / 1909B		13,516
		Unallied Science Program	11.472	North Pacific Research Board	A93-01b		61,518
		Unallied Science Program	11.472	Pacific States Marine Fisheries Commission	20-40G	36,505	152,758
		Water Run off sampling from Mosier Oil Spill	11.000	Industrial Economics	5701-OSU		(4,353)
	<i>Department of Commerce Total</i>					705,931	9,775,878
Department of Defense		2019 Master Time Charter Agreement - Oceanus ship time	12.000	NewFields Government Services LLC	2019-1278		411,180
		3-D Antenna Technology Using Additive Manufacturing - Phase II	12.000	University of South Florida	2106-1300-00A		36,708
		3-D Antenna Technology Using Additive Manufacturing - Phase II	12.000	University of South Florida	2106-1300-00A / P000002201		37,054
		A Mechanistic Understanding of PFASs in Source Zones: Characterization and Control	12.000			390,353	513,150
		Adult Salmonids Trap and Transport Success Above Dams	12.000			69,428	623,959
		Air Force Defense Research Sciences Program	12.800				87,724

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		Air Force Defense Research Sciences Program	12.800	Southern University and A&M College	OSP-02-8300-2018-0011		70,486
		Air Force Defense Research Sciences Program	12.800	University of Texas at Austin	UTA16-001294		172,298
		Analysis of Defense Related Ecosystem Services	12.000			27,095	54,288
		Assessing and Mitigating Bias in PFAS Levels during Ground and Surface Water Sampling	12.000			82,770	224,771
		Automated Assembly Planning: From CAD model to Virtual Assembly Process	12.000	UI Labs Vanderbilt University Medical Center	0220150003		(5,031)
		Automatic Sensing for Clinical Documentation (ASCD)	12.000		VUMC 63462		123,714
		Autonomous Passive Acoustic Monitoring of Marine Mammals in the Hawaii Range Complex (HRC), the Gulf of Alaska (GoA), and the Mariana Islands Range Complex (MIRC)	12.000	HDR One Company	CNV10031560 1000300001180- CONFORMED		44,356
		Autonomous Underwater Vehicle Passive Acoustic Monitoring of Beaked Whales in the Southern California Area	12.000	HDR One Company			194,491
		Basic and Applied Scientific Research	12.300				4,565,389
		Basic and Applied Scientific Research	12.300	Brigham Young University	16-0481		80,268
		Basic and Applied Scientific Research	12.300	University of St. Andrews	SMC7-XOBO19 / 13374	298,866	(22,716)
		Basic and Applied Scientific Research	12.300	University of Minnesota - Twin Cities	A006982301		81,826
		Basic Scientific Research	12.431	University of Virginia	GG12239.PO#2210408		34,201
		Benthic Data Collection and Analysis at Dredged Material Disposal Sites at the Mouth of the Columbia River	12.000				2
		Biologically Sourced Sonar and Soundscape Interrogation - OSU	12.000	Raytheon SAS	HR001119C0012 PO4201939519		14,940
		Blue and fin whale satellite tag data preparation in support of marine mammal monitoring in the Southern California Range Complex with regard to possible changes in behavior from exposure to naval sonar	12.000	HDR One Company	1000300001422		11,356
		Bruce Mate and Daniel Palacios, Principal Investigator participation in the Pacific Navy Marine Species Monitoring Program Review Meeting, Seattle, WA, April 2017	12.000	HDR One Company	1000300000626		121
		Characterization of the Nature and Extent of Per- and Polyfluoroalkyl Substance (PFASs) in Environmental Media at DoD Sites for Informed Decision Making	12.000				63
		Collaborative Research and Development	12.114	Towson University	23, PO# 7359, Project# 5040400		31,153
		Collaborative Research and Development	12.114	Towson University	41, Project #5040389, PO#10049		116,377
		Collaborative Research and Development	12.114	Towson University	Not Available		924
		Command and Control of Aggregate Swarm Tactics (CCAST)	12.000	Raytheon SAS	LBN9513582/42020484554		188,366
		Competency-Aware Machine Learning (CAML)/ Lucid State	12.000	BBN Technologies	4202133492		75,951
		Competency-Aware Reinforcement Learning through Introspection (CARLI)	12.000	SRI International	41729		101,802
		Concurrent In-Situ Cometabolic Biodegradation of 1,4-Dioxane and Chlorinated Ethenes Using Recirculation	12.000	Haley Aldrich, Inc.	39730-001 through 39730- 007		(68)
		Data-driven uncertainty reduction during nearshore events	12.000				3,425
		Design, Manufacturing and Experimental Characterization of Advanced Composites Cylindrical Structures	12.000	Innovative Composite Engineering	Not Available		36,000
		Detection and identification of environmental DNA from beaked whales on the Navy Atlantic Undersea Test and Evaluation Center (AUTECE) range using droplet digital PRC	12.000			50,541	139,394
		Development of Genomics and Behavioral Assays for Understanding Neurotoxicity of Chemicals and Effects on Performance	12.000				41,783

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		Development of Slow Release Compounds for the Aerobic Cometabolic Treatment of Complex Mixtures of COC Released from Low Permeability Zones	12.000			50,739	285,690
		Development, Evaluation, and Technology Transfer of BMPs for Optimizing Removal of PAHs, PCBs, PFASs, and Metals from Stormwater at DoD Sites	12.000				425,103
		DLA 2017 phase 2 scaling	12.000	OnTo Technology LLC	2019		1,594
		Embodied Neuroprostheses	12.000	University of Utah	10038415-OR		34,905
		Evaluation of a Naval Shipyard Cleanup Project	12.000	CH2M Hill, Inc	10006-7-107098		46,315
		Evaluation of a Novel Multiple Primary Substrate (MPS) Cometabolic Biosparging Technology for In Situ Bioremediation of 1,4-Dioxane and Chlorinated Solvents in Groundwater	12.000	APTIM Federal Services, LLC	204711		53,820
		Evaluation of the Impacts of Avian Predation on Salmonid Smolts from the Columbia and Snake Rivers, 2015	12.000	Real Time Research	11462006-00460390 4		0
		Evaluation of the Impacts of Avian Predation on Salmonid Smolts from the Columbia and Snake Rivers, 2017-2018	12.000	Real Time Research	20170007-OSU		44,787
		Examining the influence of salient visual cues on collective behavior in human crowds	12.000				68,835
		Field Research Facility Miscellaneous Research Tasks	12.000				18,802
		FIELDS: Fabricating with Interoperable Engineering, Planning, Design, and Analysis	12.000	Palo Alto Research Center	313332		69,614
		Flow-population models for tracking non-stationary changes in riparian and aquatic ecosystems	12.000			50,276	98,711
		Guaranteeing AI Robustness against Deception (GARD)	12.000	SRI International	P044618		40,356
		Humpback Whale Tagging In Support Of Marine Mammal Monitoring Across Multiple Navy Training Areas In Pacific Ocean	12.000				395,549
		Humpback Whale Tagging in Support of Marine Mammal Monitoring Across Multiple Navy Training Areas in the Pacific Ocean	12.000				150,634
		Hybrid Femtocell-Attocell Dynamic Free-space Optical System (FADFOS) for High Speed Undersea Platform Communication	12.000	E-Lambda LLC	2019-1485		133,077
		Ignition, Propagation, and Emissions of Smoldering Combustion: Experimental Analysis and Physics Based Modeling	12.000				240,733
		Incorporating Photoperiodism in Inspect Phenology Models with Application for Biological Control of Weeds on Department of Defense Lands	12.000			47,700	303,375
		Increasing the thrust-to-weight ratio of a JetCat Engine	12.000	Universal Technology Corporation	FA865014D2411/18-790-0008-38C4		(88)
		Insights into the Long-Term Mass Discharge & Transformation of AFFF in the Unsaturated Zone	12.000	CDM Federal Programs Corporation	6500-001-004-CS		74,142
		Key Fate and Transport Processes Impacting the Mass Discharge, Attenuation, and Treatment of Poly- and Perfluoroalkyl Substances and Comingled Chlorinated Solvents or Aromatic Hydrocarbons	12.000	Colorado School of Mines	401245-5802		31,025
		Leveraging Symbolic Representations for Safe & Assured Learning (Assure)	12.000	Galois Inc.	2019-011		176,255
		Li-Fi Network for Tactical Shelters	12.000	E-Lambda LLC	N6833518C0562		28,066
		Live Fuels: Identification of Key Processes Controlling Ignition and Fuel Consumption	12.000				164,160
		MagQuest Phase 1	12.000	University of Washington	UWSC11350 / BPO42685		1,444
		Mathematical Sciences Grants Program	12.901				56,399
		Military Medical Research and Development	12.420			166,764	368,972
		Multiscale Simulation Framework for Modeling of Structural Reactive Materials	12.000	Wasatch Molecular, Inc.	2018-981		5,296
		NAVFAC Inspection	12.000	University of Washington	UWSC10469 / BPO31365		66,656
		NEARSHORE MONITORING DATA COLLECTION WITH ARGUS BEACH MONITORING SYSTEM	12.000				56,862

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		NewFields Government Services Master Time Charter Agreement	12.000	NewFields Government Services LLC	2018-1409		12,376
		PacWave North: Microgrid Demonstrations in a Fully Energetic Open-Coastal Setting	12.000	University of Washington	UWSC11130/BPO 39672		629,585
		Quantifying and Communicating Uncertainty of Beach -Dune Evolution Models: The Development of an Event- to Interannual- to Decadal-Scale Model Testbed	12.000				52,236
		QUANTIFYING DYNAMICS OF, AND OPPORTUNITY FOR, MICRO-SCALE WAVE ENERGY CONVERSION	12.000	University of Washington	UWSC11389/BPO43021		56,412
		Real-time Remotely Sensed Topography and Bathymetry using Visible and LWIR Imagery Acquired from Small UASs, Phase II	12.000	Innovative Imaging and Research	2018-1430		151,719
		Research and Technology Development	12.910				4,210,786
		Research and Technology Development	12.910	Carnegie Mellon University	1190050-405770		184,064
		Research and Technology Development	12.910	Columbia University	1(GG014532-01)	58,931	123,070
		Research and Technology Development	12.910	Raytheon SAS	PO LBN9513024		181,046
		Research and Technology Development	12.910	University of California Santa Barbara	KK1752		(0)
		Research and Technology Development	12.910	University of California, Los Angeles	1015 G UA493	18,079	58,694
		Research and Technology Development	12.910	US Department of the Interior	D18AP00063	1,417,424	210,789
		Resilient Emergent Properties of Autonomous Agent InteRactions (REPAIR)	12.000	Smart Information Flow Technologies	REPAIR-PH2-OSU-01		126,702
		San Clemente Argus Station OutYear Maintenance and Ops	12.000				27,699
		SBIR (Phase II): Nonlinear Optical Threat Protection Technologies for Daytime Cameras	12.000	Voxtel, Inc	2018-2029		79,305
		Scaled Assembly of Heterogeneous Nanomaterials (SAHN)	12.000	Voxtel, Inc	2016-915		13,460
		Scientific Research - Combating Weapons of Mass Destruction	12.351				247,200
		Scientific Research - Combating Weapons of Mass Destruction	12.351	University of Michigan International Business Machines Corp.	3003573212 (Prev 3002907474)	178,378	(51)
		Secure Multi-Party Computation for HECTOR	12.000		CW3002470		104,408
		Self-Learned Agents for Collective Analysis of Human Activities and Events in Aerial Videos	12.000	Boston Fusion Corp	BF-5047-SK001		52,746
		Simulation of Multiphase Interactions in Reactive Structural Materials	12.000	Wasatch Molecular, Inc.	2018-1025		51,009
		SYMBIANT: Exploiting the slow/fast framing of the mind for robust behavior in open worlds	12.000	Raytheon SAS	4202182976		135,744
		Teammate aware autonomy	12.000	Scientific Systems Company Inc	SC-1656-02		158,728
		Technical Proposal: Design, Fabrication, Testing, and Evaluation of Windmill Prevention and Thrust Vectoring System for a small Gas Turbine Engine	12.000	Universal Technology Corporation	142411-16F2639-1948-C4		4,159
		Techniques and Tools for De-Bloating Containers	12.000	University of Wisconsin - Madison	785K864		123,461
		Transparent Computing	12.000	Galois Inc.	2015-011		19,575
	<i>Department of Defense Total</i>					2,907,344	18,545,715
Department of Education		Education Research, Development and Dissemination	84.305			43,633	561,459
		Education Research, Development and Dissemination	84.305	Yale University	GR103267 (CON-80001285)		16,462
		English Language Acquisition State Grants	84.365			61,139	584,280
		MAAPS: Monitoring Advising Analytics to Promote Student Success	84.000	Georgia State University Research Foundation Inc	SP00012139-08		45,945
		Overseas Programs - Doctoral Dissertation Research Abroad	84.022				18,286
		Special Education - Personnel Development to Improve Services and Results for Children with Disabilities	84.325			99,759	464,193
		Special Education - Personnel Development to Improve Services and Results for Children with Disabilities	84.325	East Carolina University	AWD-20-0512-S005		3,706
	<i>Department of Education Total</i>					204,532	1,694,331

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Department of Energy		A model selection approach to assess water quality using satellite imagery and limited field measurements	81.000	Oak Ridge Associated Universities/DOE	FY 17-3759		14,747
		Accelerating the Experimental Mission of VTR Through an Ex-Pile Operational Program	81.000	Idaho National Laboratory	145660-00034	58,206	251,750
		Advanced Research Projects Agency - Energy	81.135			384,566	1,463,330
		Analysis and Optimization of Pu-238 Production in Specific ATR Irradiation Facilities	81.000	Idaho National Laboratory	145660-00035		93,695
		Application of Nonlinear Elimination to Implicit Monte Carlo Solutions of Thermal Radiation Transport	81.000	Lawrence Livermore National Laboratory	B637358		90,789
		Autonomous Monitoring of Geologic Repositories	81.000	DOE Pacific Northwest National Lab	445770-503736		61,751
		Avian Predation on Juvenile Salmonids in the Lower Columbia River	81.000			244,809	416,988
		Center for Next Generation Materials by Design (OSU)	81.000	DOE National Renewable Energy Lab	XGJ-9-92313-01		64,926
		Center for Next Generation of Materials by Design: Incorporating Metastability	81.000	DOE National Renewable Energy Lab	XGJ-4-42247-01		47,197
		Conservation Research and Development	81.086			38,838	127,271
		Conservation Research and Development	81.086	OnTo Technology LLC	2018-1735		13,156
		Control-informed WEC performance optimization	81.000	Sandia National Laboratories	1957986		38,917
		Controlled-Source Electromagnetic (CSEM) for Geohazard Identification	81.000	Leidos Inc	P010225898 TO #2		32,931
		Create Digital Twin to Support Energy Efficiency Integration in Permanent Modular Construction	81.000	DOE National Renewable Energy Lab	SUB-2020-10207		24,337
		Defense Nuclear Nonproliferation Research	81.113	University of Michigan	3003608372 (3003222385)		121,055
		Demonstration of In-situ Thermal Hydraulic Monitoring of Printed Circuit and Additively Manufactured Compact Heat Exchangers for VTR Testing	81.000	Idaho National Laboratory	0221030		43,603
		Design and Experimental Characterization of a LOCA Capsule for Transient Testing	81.000	Idaho National Laboratory	145660-00026		108,650
		DESIGN OF AN IN-PILE EXPERIMENTAL LOOP FOR FAST TEST REACTOR CONDITIONS	81.000	Idaho National Laboratory	145660-00022		(361)
		Developing Multi-Scale, Rapid and Comprehensive PIE using the Focused Ion Beam Microscope	81.000	Idaho National Laboratory	145660-32		97,025
		Developing Process-Microstructure-Property Correlation of Radiation-Tolerant Nanoporous and Nanostructured Materials for High Irradiation Environments	81.000	Sandia National Laboratories	PO 2034563		40,379
		Distinguished Graduate Research Program	81.000	DOE Pacific Northwest National Lab	445770-482917		26,014
		Electricity Delivery and Energy Reliability, Research, Development and Analysis	81.122	Schweitzer Engineering Laboratories Inc	SEL-138-2019		78,605
		Electricity Delivery and Energy Reliability, Research, Development and Analysis	81.122	University of Illinois, Urbana-Champaign	078620-15702 (2015-06605-07)		187,309
		Environmental Remediation and Waste Processing and Disposal	81.104	Vanderbilt University	UNIV59366 (formerly 19067-2)		165,598
		Environmental Remediation and Waste Processing and Disposal	81.104	Washington Department of Ecology	C1900078		68,308
		Evaluate Reproductive Success of hatchery-origin and wild origin Steelhead in Hood River'	81.000				171,916
		Evolution of thermal conductivity in irradiated lithium aluminate	81.000	DOE Pacific Northwest National Lab	378025		99,622
		EXP OCEAN SURVIVAL OF SALMONIDS	81.000				166,169
		Exp Ocean Survival of Salmonids	81.000				188,740
		Feed to Flightstock Tool (F2FT)	81.000	Lawrence Berkeley National Lab	7449593		111,980
		FLOW TESTING OF IN-PILE I-LOOP BOOSTER ELEMENT	81.000	Idaho National Laboratory	145660-33		243,227

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		Fossil Energy Research and Development	81.089				51,933
		Fossil Energy Research and Development	81.089	University of Texas at Austin Lawrence Livermore National Laboratory	UTA17-000274		87,760
		Gamma-ray spectroscopy of beta delayed fission products	81.000		B636419		79,193
		Growth of Epitaxial Thin Film for Battery Research	81.000	Stanford University	202530		20,900
		Hanford Natural Resource Damage Assessment Technical Support	81.000	Oregon Dept of Energy	19-004		(296)
		High Performance Research Reactor Hydro-Mechanical Fuel Test Program	81.000	Idaho National Laboratory	00044868-00029		638
		High Temperature Test Facility Shakedown and Matrix Testing	81.000	Idaho National Laboratory	145660-00031		7,023
		HTTF Testing 2016	81.000	Idaho National Laboratory	00145660-014		19,565
		Hydro-Mechanical Flow Testing - Standby Contract	81.000	Idaho National Laboratory	145660-00028		16,249
		In Situ Mechanical and Corrosion Testing	81.000	Idaho National Laboratory	0145660-00025		487,547
		Industrial Engineering Support for Low-Enriched Uranium Fuel Fabrication Process Flow - Phase 2 (Supplement 2019)	81.000	DOE Pacific Northwest National Lab	445770-446280		183,671
		Industrial Engineering Support for Low-Enriched Uranium Fuel Fabrication Process Flow - Phase 2 (Supplement CY2020)	81.000	DOE Pacific Northwest National Lab	445770-506660		85,876
		Informing habitat conservation efforts towards increasing juvenile Chinook salmon size, growth, and survival across stream networks	81.000	Columbia River Inter-Tribal Fish Commission	C19-03 / C1900340		78,809
		Informing habitat conservation efforts towards increasing juvenile Chinook salmon size, growth, and survival across stream networks	81.000	Columbia River Inter-Tribal Fish Commission	C20-01 PO C2000140		21,421
		InSPIRE 2.0: Dryland Agriculture and Solar Co-Location	81.000	DOE National Renewable Energy Lab	XHR-9-92172-01		55,704
		Integration of radical scavengers inside nanoporous carbon-based catalysts INVESTIGATION OF COMPACT REMOTE-TRIGGERED CAPSULE BLOWDOWN VALVE	81.000	DOE Pacific Northwest National Lab	445770-478185		44,913
		Leidos NETL Task 4: Constraining Kick Signals through Advanced Multi- Phase Data	81.000	Idaho National Laboratory	145660-0038		14,331
		Machine Learning for Nuclear Data, Criticality Safety and Non-Proliferation Applications	81.000	Leidos Inc	P010225898 TO 4		62,345
		Management of Ameriflux Network Project	81.000	Los Alamos National Laboratory	511502-513577		76,792
		Mini-DAQ for Wave Energy Conversion	81.000	Lawrence Berkeley National Lab	7117975		278,730
		Multi-Physics Simulation of RIA and LOCA Events with Post-Event Fuel Migration Experiments	81.000	Sandia National Laboratories	1985756		90,035
		Multivalent Battery Cathode Stability and Characterization	81.000	Idaho National Laboratory	145660-00018		56,876
		NATIONAL UNIVERSITY CONSORTIUM TRAVEL SUPPORT	81.000	Argonne National Laboratory	9F-60223		62,610
		NEUTRONIC ANALYSIS OF THE UT Austin NETL REACTOR	81.000	Idaho National Laboratory	145660-00019		14,431
		Noncontact Flow Rate Sensor Using Laser Ultrasonics	81.000	Idaho National Laboratory	30-145660- 3295-DOE- FLOWMEASURMENT		(43,067)
		Nonproliferation and International Safeguards Senior Design Project	81.000	Intelligent Optical Systems Inc DOE Pacific Northwest National Lab	445770-448372		49,936
		Novel Use of 4D Monitoring Techniques to Improve Reservoir Longevity and Productivity in Enhanced Geothermal Systems	81.000	AECOM Energy and Construction, Inc.	RES1100426 / 004		(5,290)
		Nuclear Energy Research, Development and Demonstration	81.121			232,837	761,261
		Nuclear Energy Research, Development and Demonstration	81.121	University of California Berkeley	00009033/DE-NE0008460		157
		Nuclear Energy Research, Development and Demonstration	81.121	University of California Berkeley	BB01185638-00009946		40,290
		Nuclear Energy Research, Development and Demonstration	81.121	University of Idaho	EH3005-SB-762925		111,440
		Nuclear Energy Research, Development and Demonstration	81.121	University of New Mexico	327074-874U		64,388
		Nuclear Energy Research, Development and Demonstration	81.121	University of Wisconsin - Madison	775K552 / DE-NE0008714		75,334
		Nuclear Non-Proliferation Detector Concept	81.000	Idaho National Laboratory	00145660-00011		36,474
		Office of Science Financial Assistance Program	81.049			33,339	817,456
		Office of Science Financial Assistance Program	81.049	Pennsylvania State University	S000311-DOE		12,608
		Office of Science Financial Assistance Program	81.049	Stanford University	62216029-148997		5,587

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		Office of Science Financial Assistance Program	81.049	University of Notre Dame	202373		(1,105)
		OSU/ORNL GO! Program	81.000	DOE Oak Ridge National Laboratory	4000167629		362
		Physiological Basis of Metamerism - Phase 1	81.000	DOE Pacific Northwest National Lab	445770-490503		67,934
		Platform for efficient large-scale storage and analysis of multi-omics data in plant and microbial systems	81.000	Omics Data Automation Inc	DE-SC0019686 OSU		66,617
		PNNL - Boiteau Joint Appointment Agreement FY19	81.000	DOE Pacific Northwest National Lab	445770-448636		22,332
		POPLAR TRANSGENICS	81.000	DOE Oak Ridge National Laboratory	4000174948		37,911
		Predicting permafrost stability in Alaskan landscapes susceptible to freeze-thaw cycles	81.000	DOE Pacific Northwest National Lab	445770-490171		28,138
		Preparation of targets for Los Alamos National Laboratory	81.000	Los Alamos National Laboratory	541384		35,365
		Preparation of Targets for SPIDER	81.000	Los Alamos National Laboratory	408419		(947)
		Production of two 252Cf sources for LANL	81.000	Los Alamos National Laboratory	440403		0
		Pump Commissioning Flow Tests - a Naval Reactor Experimental Loops in ATR	81.000	Idaho National Laboratory	145660-00017	9,287	684,863
		Renewable Energy Research and Development	81.087	American Institute of Chemical Engineers	DE-EE000788-08.6	544,002	4,415,942
		Renewable Energy Research and Development	81.087	American Institute of Chemical Engineers	DE-EE0007888-10.9a		120,483
		Renewable Energy Research and Development	81.087	American Institute of Chemical Engineers	DE-EE0007888-08.4		(901)
		Renewable Energy Research and Development	81.087	American Institute of Chemical Engineers	DE-EE0007888-10.9a		55,390
		Renewable Energy Research and Development	81.087	American Institute of Chemical Engineers	DE-EE0007888-10.4	13,983	95,399
		Renewable Energy Research and Development	81.087	American Institute of Chemical Engineers	RAPID Project Management		591,978
		Renewable Energy Research and Development	81.087	DOE National Renewable Energy Lab	XEJ-9-92109-01		95,663
		Renewing Wave Energy Testing for Maritime Markets at PacWave North Resource characteristics at early market Marine and Hydrokinetic (MHK) sites	81.000	DOE National Renewable Energy Lab	AGZ-9-92287-01		76,860
		Solid State NMR Calculations using First Principles Methods Density Functional	81.000	Argonne National Laboratory	0F-60052		35,754
		Stewardship Science Grant Program	81.112				21,467
		Stewardship Science Grant Program	81.112	Colorado School of Mines	401140-5802		157,724
		Stewardship Science Grant Program	81.112	University of Notre Dame	203186OSU		(0)
		Stoerzinger Joint Appointment Agreement	81.000	DOE Pacific Northwest National Lab	445770-448609		195,975
		Supporting Flash Neutron Radiography and Flow Visualization Experiments	81.000	Idaho National Laboratory	145660-0037		43,101
		Task: Infection of juvenile Chinook salmon by a parasitic copepod, <i>Salmincola californiensis</i>	81.000	DOE Pacific Northwest National Lab	445770-490752		1,536
		Technical Support for Natural Resource Trustee for Post-Remedial Restoration of Hanford Nuclear Site	81.000	Oregon Dept of Energy	15-102		64,667
		TPC Target Making	81.000	Lawrence Livermore National Laboratory	B630762		(9,971)
		TREAT HENRI - System Modeling and Prototype Testing	81.000	Idaho National Laboratory	145660-0021		89,979
		TREAT HENRI-PROTOTYPE TESTING AND SYSTEM MODELING OF THE HELIUM NEGATIVE REACTIVITY INSERTION (HENRI) SYSTEM	81.000	Idaho National Laboratory	145660-00036		33,172
							72,000

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		Tuning the Molecular Interactions with Xenon using Metal Organic Frameworks	81.000	DOE Pacific Northwest National Lab	445770-489084		51,361
		Uranium Enrichment Assay with a Spectral Radiography CdTe Detector	81.000	DOE Pacific Northwest National Lab	199062-434114		3,656
		VTR Strategic Initiatives	81.000	University of Pittsburgh	0062228-1		166,111
	<i>Department of Energy Total</i>					1,668,518	16,200,773
Department of Health and Human Services		Aging Research	93.866			250,807	1,285,114
		Aging Research	93.866	Boston University	4500003308		42,780
		Aging Research	93.866	Oregon Health & Science University	1005711 OSU		34,042
		Aging Research	93.866	Pennsylvania State University	5928-OSU-NIA-2167		9,680
		Aging Research	93.866	World Health Organization	201540498/201650964		(27)
		Alcohol Research Programs	93.273			8,099	307,456
		Alcohol Research Programs	93.273	The Mind Research Network	6010561 SubN1		(80)
		Allergy and Infectious Diseases Research	93.855			178,926	1,767,622
		Allergy and Infectious Diseases Research	93.855	Aradigm Corporation	2018-45		5,240
		Allergy and Infectious Diseases Research	93.855	Henry M Jackson Foundation	4744 / PO 972214		110,131
		Allergy and Infectious Diseases Research	93.855	Henry M Jackson Foundation	4745 / PO 972216		322,780
		Allergy and Infectious Diseases Research	93.855	Henry M Jackson Foundation	Not Available		51,036
		Allergy and Infectious Diseases Research	93.855	Mount Sinai School of Medicine	0255-A131/A132/A133-4609		52,257
		Allergy and Infectious Diseases Research	93.855	Najit Technologies Inc	2017-1066		(3,180)
		Allergy and Infectious Diseases Research	93.855	University of Texas Southwestern	160608 / 141405		98,555
		Allergy and Infectious Diseases Research	93.855	University of Washington	UWSC9071 / BPO 15471		122,607
		Allergy and Infectious Diseases Research	93.855	Western University of Health Sciences	20150-Steinauer-OSU		87,624
		Arthritis, Musculoskeletal and Skin Diseases Research	93.846				(3,140)
		Assistance Programs for Chronic Disease Prevention and Control	93.945	Oregon Health Authority	158380		55,087
		Biomedical Research and Research Training	93.859			154,296	1,900,646
		Biomedical Research and Research Training	93.859	University of Georgia	SUB00002035		75,751
		Biomedical Research and Research Training	93.859	University of Michigan	SUBK0010345/		
		Biomedical Research and Research Training	93.859	University of Michigan	PO#3005760129		7,158
		Biomedical Research and Research Training	93.859	University of Nebraska	34-5360-2076-001		138,893
		Biomedical Research and Research Training	93.859	University of Oregon	215030A		49,961
		Biomedical Research and Research Training	93.859	Wake Forest University	100100-550010		70,914
		Cancer Cause and Prevention Research	93.393				18,345
		Cancer Cause and Prevention Research	93.393	University of Oregon	215370A		(8,895)
		Cancer Detection and Diagnosis Research	93.394				68,959
		Cancer Research Manpower	93.398	Oregon Health & Science University	1003692 OSU		27
		Cancer Treatment Research	93.395			206,114	447,849
		Cancer Treatment Research	93.395	Pacific University	PU-OSU-01-2019-00		99,657
		Cancer Treatment Research	93.395	State University of New York at Buffalo	R1064720		(10,344)
		Cardiovascular Diseases Research	93.837	New York University	15-A1-00-004212-01		7,046
		Cardiovascular Diseases Research	93.837	Oregon Health & Science University	1005697 OSU		(14,991)
		Cardiovascular Diseases Research	93.837	Ossium Health	2R44HL42418-02		35,572
		Cardiovascular Diseases Research	93.837	University of Illinois, Chicago	16912		7,702
		Center for Cancer Data Harmonization	93.000	Leidos Biomedical Research	HHSN261201500003I	383,679	775,556
		Centers for Research and Demonstration for Health Promotion and Disease Prevention	93.135				56,436
		Child Health and Human Development Extramural Research	93.865			38,147	814,907

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<i>Cluster</i>	<i>Federal Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed through to Subrecipients</i>	<i>Total Expenditures</i>
		Child Health and Human Development Extramural Research	93.865	Oregon Health & Science University	1013518 OSU		82,103
		Child Health and Human Development Extramural Research	93.865	Oregon Health & Science University	1016127 OSU		28,175
		Child Health and Human Development Extramural Research	93.865	Wake Forest University	102300-112761		118,416
		CHW Common Indicator Project (CI Project)	93.000	Community Health and Social Services Center Inc	20-2124		18,424
		Development of NHSN's AUR data and SAAR to support Antibiotic Benchmarking Program among Vizient Members	93.000	Virginia Commonwealth University	FP00004348 SA001		(17,656)
		Diabetes, Digestive, and Kidney Diseases Extramural Research	93.847				610,871
		Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286			31,332	419,059
		Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286	Georgia Regents University	33585-1		110,151
		Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286	Oregon Health & Science University	1008659 OSU		35,870
		Drug Abuse and Addiction Research Programs	93.279				62,447
		Drug Abuse and Addiction Research Programs	93.279	Boston University	BMC ID 6702 / PO 11524101		75,515
		Drug Abuse and Addiction Research Programs	93.279	Oregon Health & Science University	1011286 OSU		1,230
		Drug Abuse and Addiction Research Programs	93.279	Oregon Health & Science University	1012350 OSU		89,370
		Drug Abuse and Addiction Research Programs	93.279	Oregon Health & Science University	1012803 OSU		35,748
		Drug Abuse and Addiction Research Programs	93.279	Second Genome	2019-2155		209,205
		Drug Abuse and Addiction Research Programs	93.279	The Mind Research Network	6010562 SubN1		(83)
		Drug Abuse and Addiction Research Programs	93.279	University of California at San Francisco	10961sc / CTN-0086		133,193
		Emerging Infections Programs	93.317	Oregon Health Authority	163182		30,000
		Environmental Health	93.113			104,884	3,070,108
		Environmental Health	93.113	North Carolina State University	2019-0378-01		91,303
		Environmental Health	93.113	Omega Optics, Inc	OSU2014-996		(4,156)
		Environmental Health	93.113	Oregon Health & Science University	1011694 OSU		43,950
		Environmental Health	93.113	University of California at San Francisco	10473sc		94,751
		Environmental Health	93.113	University of California, Irvine	2019-3784		2,853
		Environmental Health	93.113	Wake Forest University	102510-550032		50,039
		Environmental Health	93.113	Brigham and Women's Hospital	118582		35,401
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323	Oregon Health Authority	149324		80,166
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323	Oregon Health Authority	156294		21,726
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323	Oregon Health Authority	157282		91,924
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323	Oregon Health Authority	160782		623
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323	Oregon Health Authority	160784		12,970
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323	Oregon Health Authority	163700		33,982
		Every Student Succeeds Act/Preschool Development Grants	93.434	Portland State University	100144		74,448
		Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853				287,478
		Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853	University of Illinois, Chicago	16979-00		(1,415)
		Food and Drug Administration Research	93.103				278,971
		Information Session: Implementation of Zebrafish Ontologies for Toxicology Screening	93.000	Integrated Laboratory Systems	ILS180706		(14,116)
		Injury Prevention and Control Research and State and Community Based Programs	93.136			26,550	37,637

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		Injury Prevention and Control Research and State and Community Based Programs	93.136	Oregon Health & Science University	1013842 OSU		58,359
		Inter-laboratory Study of the Effects of Protocol Variables on Toxicity Measures in Zebrafish	93.000	Battelle Memorial Institute	US 001-0000751237		112,867
		Lung Diseases Research	93.838			44,687	435,598
		Mental Health Research Grants	93.242				6,273
		Mental Health Research Grants	93.242	Portland State University	100107		17,734
		Mental Health Research Grants	93.242	University of California, Irvine	2017-3450		12,757
		National Center for Advancing Translational Sciences	93.350			230,974	554,774
		National Center for Advancing Translational Sciences	93.350	Johns Hopkins University	2004147433		374,341
		National Center for Advancing Translational Sciences	93.350	Oregon Health & Science University	1010312 OSU		23,993
		National Center for Advancing Translational Sciences	93.350	Oregon Health & Science University	1010312 OSU Newsom		18,610
		National Center for Advancing Translational Sciences	93.350	Oregon Health & Science University	1011902 OSU		94,896
		NIHS Superfund Hazardous Substances Basic Research and Education	93.143				1,435,252
		NIH Data Commons Pilot Phase (NHLBI)	93.000	University of North Carolina, Chapel Hill	5109481		328,276
		Occupational Safety and Health Program	93.262			33,603	183,329
		Occupational Safety and Health Program	93.262	Eastern Washington University	2019-746		13,480
		Occupational Safety and Health Program	93.262	Eastern Washington University	SR0009641		(1,376)
		Occupational Safety and Health Program	93.262	New York Center for Agricultural Medicine and Health	1 U01OH011899-01-00		3,712
		Occupational Safety and Health Program	93.262	University of Washington	UWSC10740/BPO 34648		3,089
		Occupational Safety and Health Program	93.262	University of Washington	UWSC10972 / BPO 37132		9,825
		Occupational Safety and Health Program	93.262	University of Washington	UWSC11696 / BPO		3,263
		Occupational Safety and Health Program	93.262	University of Washington	#49399		163,074
		Oral Diseases and Disorders Research	93.121			156,850	599,813
		Oral Diseases and Disorders Research	93.121	Mayo Clinic	PO 64778953 / ORE-181199-04		(13)
		Oral Diseases and Disorders Research	93.121	Oregon Health & Science University	1013028 OSU		100,844
		Research and Training in Complementary and Integrative Health	93.213			375,595	1,450,296
		Research and Training in Complementary and Integrative Health	93.213	Oregon Health & Science University	1003333 OSU		9,653
		Research and Training in Complementary and Integrative Health	93.213	Oregon Health & Science University	1004728 OSU		56,990
		Research and Training in Complementary and Integrative Health	93.213	Oregon Health & Science University	1010982 OSU		5,389
		Research and Training in Complementary and Integrative Health	93.213	University of Illinois, Chicago	16883		85,727
		Research Infrastructure Programs	93.351			797,262	1,474,044
		Research Infrastructure Programs	93.351	Oregon Health & Science University	1003383 OSU		(9,765)
		Research Infrastructure Programs	93.351	Oregon Health & Science University	1014589 OSU		76,041
		Research Infrastructure Programs	93.351	Purdue University	4102-86206 / 11000451-010		5,083
		Research Infrastructure Programs	93.351	University of Oregon	217090A		36,191
		Research on Healthcare Costs, Quality and Outcomes	93.226			140,666	619,897
		Research on Healthcare Costs, Quality and Outcomes	93.226	Oregon Health & Science University	1015223 OSU		24,898
		Research on Healthcare Costs, Quality and Outcomes	93.226	University of Illinois, Chicago	16660		5,881
		Research Related to Deafness and Communication Disorders	93.173				263,643

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		Sodium Reduction in Communities	93.082	Oregon Health Authority Willamette Neighborhood Housing Services	153667 2016-1842		183,541 9
		State Partnership Grant Program to Improve Minority Health	93.296				9
		Trans-NIH Research Support	93.310				143,493
		Trans-NIH Research Support	93.310	Columbia University	1(GG013062-01)		15,232
		Trans-NIH Research Support	93.310	Duke University	203-7960		26,359
		Trans-NIH Research Support	93.310	Duke University	A03-2331		13,536
		Trans-NIH Research Support	93.310	Lawrence Berkeley National Lab	7452392		1,592
		Vision Research	93.867				155,711
		Vision Research	93.867	Universal Adherence LLC	2018-2480		33,290
		Welfare Reform Research, Evaluations and National Studies	93.595				8,428
	<i>Department of Health and Human Services Total</i>					3,162,473	24,455,343
Department of Homeland Security		Assistance to Firefighters Grant	97.044			165,768	403,314
		Centers for Homeland Security	97.061	University of North Carolina, Chapel Hill	5101654		104,297
		Homeland Security Research, Development, Testing, Evaluation, and Demonstration of Technologies Related to Nuclear Threat Detection	97.077				34,490
		OCCRI Climate Change Assistance with the 2020 Oregon NHMP Update	97.000	Oregon Dept of Land Conservation & Development	19040		16,071
	<i>Department of Homeland Security Total</i>					165,768	558,172
Department of the Interior		2017 Baker & Malheur County Sage-Grouse/Raven Study	15.000	Oregon Dept of Fish & Wildlife	117-17		(9,073)
		Adaptive Science	15.670				23,314
		An evaluation of sublethal and latent pyrethroid toxicity across a salinity gradient in two Delta fish species	15.000	Delta Stewardship Council	18206	7,930	112,298
		Assistance to State Water Resources Research Institutes	15.805				71,248
		Blue & Fin Whale Tagging Analyses and Publications in Support of Marine Mammal Monitoring Across Multiple Navy Training Areas in Southern California	15.000	HDR One Company	1000300001166		97,638
		Bureau of Ocean Energy Management (BOEM) Environmental Studies (ES)	15.423				31,856
		Bureau of Ocean Energy Management (BOEM) Environmental Studies (ES)	15.423	San Diego State University Foundation	SA0000494		36,719
		Bureau of Ocean Energy Management (BOEM) Environmental Studies (ES)	15.423	University of California at Santa Cruz	A15-0068-S003-S0184297		11,855
		Cooperative Ecosystem Studies Units	15.678				171,125
		Cooperative Research and Training Programs Resources of the National Park System	15.945			72,761	933,339
		Cooperative Research Units	15.812				1,794,611
		Cultural and Paleontological Resources Management	15.224				5,666
		Earthquake Hazards Program Assistance	15.807				38,432
		Environmental Quality and Protection	15.236				(0)
		Evaluating Greater Sage-Grouse Responses to Landscape Level Removal of Encroaching Juniper	15.000	Pheasants Forever Inc	PF-2016-03		(126)
		Fish and Wildlife Coordination and Assistance	15.664				21,500
		Fish and Wildlife Management Assistance	15.608				(433)
		Fish, Wildlife and Plant Conservation Resource Management	15.231				494,236
		Forests and Woodlands Resource Management	15.233				(9)
		Gulf of Mexico Passive Acoustic Monitoring Program	15.000	HDR One Company	1000300001059		6,603
		Interactive Effects of Predators, Habitat, and Livestock Presence on Sage- grouse Demography and Seasonal Habitat Use in Wyoming	15.000				94,319
		Migratory Bird Monitoring, Assessment and Conservation	15.655	High Desert Partnership	2018-3063		27,386
		National Climate Change and Wildlife Science Center	15.820			20,031	20,031
		National Climate Change and Wildlife Science Center	15.820	University of Washington	UWSC11700 BPO46346/47/48/51		66,570

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		National Cooperative Geologic Mapping	15.810				(9)
		National Fish and Wildlife Foundation	15.663	National Fish and Wildlife Foundation	0206.17.058208		87,330
		National Land Remote Sensing Education Outreach and Research	15.815	AmericaView	AV18-OR-01		30,319
		Natural Resource Damage Assessment, Restoration and Implementation	15.658				103,326
		OR - Population Assessment of Western Oregon Sooty Grouse 2020-2022	15.000	Oregon Dept of Fish & Wildlife	057-20		12,073
		Plant Conservation and Restoration Management	15.245				50,332
		PN-14: PNW Terrestrial AIM Vegetation Sampling for BLM for the Eagle Lake - Applegate California BLM District in 2020-2021, with optional work in 2021-2022.	15.000			392,768	399,268
		PN-16. PNW Terrestrial AIM Vegetation Sampling for BLM in OR and WA, 2020 and 2021 field seasons.	15.000				130,015
		PN-17: PNW Terrestrial AIM Vegetation Sampling for BLM for Idaho in 2020.	15.000			935,968	942,477
		PNW Terrestrial AIM Vegetation Sampling for BLM for the Twin Falls, Idaho BLM District in 2019.	15.000				(9)
		PNW Terrestrial AIM Vegetation Sampling for BLM in OR and WA, 2019 and 2020 field seasons.	15.000				247,909
		State Wildlife Grants	15.634	Alaska Department of Fish and Game	19-093		36,309
		State Wildlife Grants	15.634	Oregon Dept of Fish & Wildlife	426-18		143,325
		Subsistence Salmon Network in Bristol Bay, AK: A Collaborative Project with Alaska Department of Fish and Game	15.000	Alaska Department of Fish and Game	19-111		12,045
		Subsistence salmon networks in Yukon River communities	15.000	Alaska Department of Fish and Game	19-057		9,149
		Toward Near Real-time Monitoring and Characterization of Land Surface Change for the Conterminous US	15.000	University of Connecticut	348425		16,805
		Toward Near Real-time Monitoring and Characterization of Land Surface Change for the Conterminous US	15.000	University of Connecticut	348425 / KFS# 5652430		40,660
		U.S. Geological Survey Research and Data Collection	15.808			6,950	199,399
		VAR-FED VMRC	15.000				17,469
		Vya Juniper Removal	15.000				28,153
		Wildland Fire Research and Studies	15.232			54,474	142,210
		Wildlife Resource Management	15.247				196,542
	<i>Department of the Interior Total</i>					1,490,883	6,894,202
Department of Transportation		A Framework to Evaluate Causes and Effects of Truck Driver At-Fault Crashes in Oregon	20.000	Oregon Dept of Transportation	30530-18-04		45,477
		Additional RTK GNSS sensors for coastal landslide monitoring	20.000	Oregon Dept of Transportation	30530-20-09		7,778
		ADJUSTING ASPHALT MIXES FOR INCREASED DURABILITY AND IMPLEMENTATION OF A PERFORMANCE TESTER TO EVALUATE FATIGUE CRACKING OF ASPHALT CONCRETE	20.000	Oregon Dept of Transportation	30530-16-07		(230)
		Air Transportation Centers of Excellence	20.109				100,847
		Automated Landslide "Hot Spot" Identification Tool for Optimized Climate Change and Seismic Resiliency	20.000	Oregon Dept of Transportation	30530-18-01	29,911	105,129
		BICYCLE DETECTION AND FEEDBACK ASSESSMENT	20.000	Oregon Dept of Transportation	30530-19-06		72,238
		BRIDGE COLUMN FOOTING PERFORMANCE AND SEISMIC RETROFIT EVALUATION CONSIDERING SOIL-STRUCTURE INTERACTION	20.000	Oregon Dept of Transportation	30530-20-06		121,467
		BRIDGE DECK ASPHALT CONCRETE PAVEMENT ARMORING	20.000	Oregon Dept of Transportation	30530-18-05		8,029
		Cascadia Lifelines Research Consortium Public Membership	20.000				3,020
		Centerline Rumble Strip Effects on Pavement Performance	20.000	Oregon Dept of Transportation	30530-20-08		33,140
		Coastal Landslide and Bluff Retreat Monitoring for Climate Change Adaptation and Targeted Risk Assessment	20.000	Oregon Dept of Transportation	30530-17-02	2,575	91,455

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		Constructing High Performance Asphalt Pavements by Improving In-Place Pavement Density	20.000	Oregon Dept of Transportation	30530-19-13		116,362
		Cyclic Response of Young Silt and Clay for Van Buren Bridge	20.000	Oregon Dept of Transportation	30530-20-11		7,973
		Cyclic Response of Young Silt and Clay, Salt Creek Bridge, OR 153	20.000	Oregon Dept of Transportation	30530-19-14		1,258
		Design and Life-Cycle Assessment of Gabion Barriers for Rockfall Mitigation using Numerical Modeling	20.000	Oregon Dept of Transportation	30530-20-03		63,927
		Detector Performance	20.000	Oregon Dept of Transportation	30530-20-10		543
		Determining Landslide Drain Efficiency Lifecycle for Development of Maintenance and Operations Manuals	20.000	Oregon Dept of Transportation	30530 20-01		69,334
		Development of a Balanced Mix Design Method in Oregon	20.000	Oregon Dept of Transportation	30530-18-08		30,469
		EXPANDING THE OREGON MOTOR CARRIER SAFETY ACTION PLAN: BEST RETURN ON INVESTMENT	20.000	Oregon Dept of Transportation	30530-20-04		19,704
		Field Implementation of Phase Change Materials (PCMs) to Mitigate Ice Formation on Concrete Airport Taxiways and Aprons	20.000	Purdue University	4108-82481 AKSAS 76287 FED		34
		Highway Research and Development Program	20.200	Alaska Dept of Transportation	400152		1,614
		Highway Research and Development Program	20.200	Iowa State University	019859WQ2B		13,449
		Highway Research and Development Program	20.200	Portland State University	208MON643		19,094
		Highway Research and Development Program	20.200	Purdue University	4202-71830		(97)
		Highway Research and Development Program	20.200	University of Florida	SUB00001970		29,399
		Highway Research and Development Program	20.200	University of Texas at Austin	UTA19-000521		49,155
		Highway Research and Development Program	20.200	University of Wisconsin - Madison	739K712		17,430
		Impact of Use of Portland-Limestone Cement on Concrete Performance as Plain or Reinforced Material	20.000	California Department of Transportation	65A0677		132,341
		IMPACTS OF INTERSECTION TREATMENTS AND TRAFFIC CHARACTERISTICS ON BICYCLIST SAFETY	20.000	Oregon Dept of Transportation	30530-20-05		1,517
		IMPLEMENTATION OF A LABORATORY CONDITIONING AND TESTING PROTOCOL TO EVALUATE MOISTURE SUSCEPTIBILITY OF ASPHALT MIXTURES	20.000	Oregon Dept of Transportation	30530-20-07		3,631
		IMPLEMENTATION OF ODOT TACK COAT TECHNOLOGIES AND PROCEDURES TO IMPROVE LONG-TERM PAVEMENT PERFORMANCE	20.000	Oregon Dept of Transportation	30530-18-06		3,389
		Improving Constructability and Durability of Concrete Pavements	20.000	Oregon Dept of Transportation	30530-19-12		188,057
		Material Characterization of Geogrids from Oregon's Oldest Geosynthetic-Reinforced MSE Wall	20.000	Oregon Dept of Transportation	30530-19-09		5,185
		Modeling and validation of standards for a sleeper compartment on accessible passenger rail vehicles	20.000	National Academy of Sciences	SUB0000855		17,413
		Nonlinear Time History Analysis Accuracy with a Focus on Column Plasticity and Cyclic Degradation	20.000	California Department of Transportation	65A0679	67,188	83,492
		Phase III Testing for Wheeled Mobility Device Containment on Passenger Rail Cars	20.000				14,436
		Physics-based modeling of rumble strip noise	20.000	Oregon Dept of Transportation	30530-19-11		123,834
		Speed Variation and Safety in Work Zones	20.000	Oregon Dept of Transportation	30530-19-10		97,650
		Subcontract - Improving Specifications to Resist Frost Damage in Modern Concrete Mixtures (Part II)	20.000	Oklahoma State University	1-552974-01 / P0040533		41,902
		TOPR 693JJ3XXX3: Advancing the Development and Deployment of BIM-Infrastructure	20.000	Iowa State University	436-17-39C		10,792
		University Transportation Centers Program	20.701	University of Washington	739437-1		4,011
		University Transportation Centers Program	20.701	University of Washington	UWSC10003/BPO26174		10,056
		University Transportation Centers Program	20.701	University of Washington	UWSC10005/BPO26177		20,343
		University Transportation Centers Program	20.701	University of Washington	UWSC10007/BPO26182		3,112
		University Transportation Centers Program	20.701	University of Washington	UWSC10009/BPO26193		3,873
		University Transportation Centers Program	20.701	University of Washington	UWSC10010/BPO26196		22,712
		University Transportation Centers Program	20.701	University of Washington	UWSC10562/BPO35911		61,362
		University Transportation Centers Program	20.701	University of Washington	UWSC10563/BPO35916		15,578
		University Transportation Centers Program	20.701	University of Washington	UWSC10564/BPO35918		33,926

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		University Transportation Centers Program	20.701	University of Washington	UWSC10576/BPO35917		9,866
		University Transportation Centers Program	20.701	University of Washington	UWSC11515/BPO44081		86,823
		University Transportation Centers Program	20.701	University of Washington	UWSC11517/BPO44087		19,190
		University Transportation Centers Program	20.701	University of Washington	UWSC11520/BPO44129		16,833
		UPDATED SURVEY STANDARDS & CONTROL GUIDANCE QUICK HIT	20.000	Oregon Dept of Transportation	30530 / 20-02		68,889
		Vulnerable and Disabled Road Users: Considerations Inside and Outside the Vehicle	20.000	toXcel	693JJ919F000170 / 2019-005		12,127
	<i>Department of Transportation Total</i>					99,674	2,140,335
Environmental Protection Agency		Creation of an integrated mitigation site and map viewer on the Oregon Explorer portal, ORWAP update, and statewide LWI Mapping.	66.000	Oregon Division of State Lands	A191222019		(16,283)
		Great Lakes Program	66.469	Central Michigan University	2011-1086		(82)
		Impacts of Vehicle Emission Regulations and Local Congestion Policies on Birth Outcomes Associated with Traffic Air Pollution	66.000	Health Effects Institute	4970-RFA18-1/20-4		22,775
		Nonpoint Source Implementation Grants	66.460	Oregon Dept of Environmental Quality	040-20		20,045
		Nonpoint Source Implementation Grants	66.460	Oregon Dept of Environmental Quality	068-19		10,186
		Office of Research and Development Consolidated Research/Training/Fellowships	66.511			225,284	559,638
		Puget Sound Action Agenda: Technical Investigations and Implementation Assistance Program	66.123	Puget Sound Partnership	2018-19		158,407
		Regional Wetland Program Development Grants	66.461	University of Florida	UFDSP00012054		8,205
		Science To Achieve Results (STAR) Fellowship Program	66.514				(2)
		Science To Achieve Results (STAR) Research Program	66.509			120,652	316,675
		Science To Achieve Results (STAR) Research Program	66.509	North Carolina State University	2019-0821-01		123,927
		The NODE biosensor: real-time contaminant detection in stormwater	66.000	Microbiome Engineering, LLC	2019-2954		20,867
	<i>Environmental Protection Agency Total</i>					345,936	1,224,359
Institute of Museum and Library Services		National Leadership Grants	45.312	Indiana University	IN-4370124-OSU		(2,048)
National Aeronautics and Space Administration		Aeronautics	43.002				152,283
		Aeronautics	43.002	Arizona State University	16-883		73,178
		Aeronautics	43.002	Massachusetts Institute of Technology	5710003962		56,557
		Atmospheric Modeling in Support of a Mission to Gale Crater on Mars - the Red Dragon Project	43.000	Jet Propulsion Lab	1564595		1
		Authenticity of Sources in Data Visualization - How Real Do We Have To Be?	43.000	James Madison University	2016-1686		2,661
		L'Space Evaluation Phase C&D	43.000	Arizona State University	ASUB00000414		31,221
		L'Space Evaluation Phase C&D	43.000	Arizona State University			17,020
		Maximizing Utility of Remote Sensing Data for Water Quality Monitoring and Resources Management in California's Water Systems	43.000	Jet Propulsion Lab	1576067		119,263
		MT Data Acquisition Services for NASA	43.000	Incorporated Research Institutions for Seismology	SU-19-1101-05-OSU	191,573	327,190
		Science	43.001			463,101	4,515,028
		Science	43.001	East West Center	HC13373		10,307
		Science	43.001	East West Center	HC13704		30,340
		Science	43.001	Institute for Global Environmental Strategies	18I004/18I008		73,407
		Science	43.001	Jet Propulsion Lab	1612966		39,771
		Science	43.001	Jet Propulsion Lab	1628812		2,730
		Science	43.001	Jet Propulsion Lab	1634540		32,547

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		Science	43.001	Princeton University	SUB0000206		17,191
		Science	43.001	Smithsonian Institute	TM9-20002X		53,942
		Science	43.001	University of Arizona	529182		60,888
		Science	43.001	University of Arizona	529183		74,426
		Science	43.001	University of Arizona	Not Available		12,426
		Science	43.001	University of Colorado Boulder	1558712 / PO#1001296706		19,428
		Science	43.001	University of Maryland, Baltimore County	NASA0003-01 NNX14AP62A: Sub 2500-		181,033
		Science	43.001	University of South Florida	1616-00-1		107,837
		Science	43.001	University of Washington	UWSC10734/BPO 34586		31,181
		Science	43.001	University of Washington	UWSC9030/BPO10407		20,327
		Science	43.001	WGBH Educational Foundation	K187348		88,401
		Science	43.001	Woods Hole Oceanographic Institution	A101163		(0)
		Science	43.001	Woods Hole Oceanographic Institution	A101248		48,601
		Science	43.001	Woods Hole Oceanographic Institution	A101346		99,220
		Space Operations	43.007				170,925
		Space Technology	43.012				68,262
		Wind stress climatolgy and anomalies along the U.S. East Coast from Coastal QuikSCAT v4.0	43.000	Jet Propulsion Lab	1624044		24,092
	<i>National Aeronautics and Space Administration Total</i>					654,674	6,561,685
	National Science Foundation	Assignment of Dr. Robert Stone to the position of Division Director, Division of Civil, Mechanical and Manufacturing Innovation (CMMI), Directorate for Engineering (ENG)	47.000				273,717
		Biological Sciences	47.074	Carnegie Institution of Washington	6-10548-02 52930113///513/517/PO92		(21)
		Biological Sciences	47.074	Cold Spring Harbor Lab	0802-SV		336,618
		Biological Sciences	47.074	Kansas State University	A00-0071-S010		992
		Biological Sciences	47.074	University of California Berkeley	00009876		8,763
		Biological Sciences	47.074	University of Minnesota - Twin Cities	H006143902		5,808
		Biological Sciences	47.074	University of Oregon	2000J0B		5,661
		Biological Sciences	47.074	University of Oregon	2010R0B GR103815 (CON-		13,605
		Biological Sciences	47.074	Yale University	80001381)		129,211
		Biological Sciences	47.074			595,865	6,440,923
		Computer and Information Science and Engineering	47.070	Portland State University	100013		85,661
		Computer and Information Science and Engineering	47.070			213,933	3,688,526
		Connected Science Learning: A Journal to Connect In-School and Out-of-School STEM Educators	47.000	Association of Science-Technology Centers	2017-0698		(231)
		American Association for the Advancement of Science	47.076	2425-A			19,015
		Education and Human Resources	47.076	American Mathematical Association of Two-Year Colleges	PS-4		18,094
		Education and Human Resources	47.076	Association of Science-Technology Centers	DRL-1612739		69,324
		Education and Human Resources	47.076	Astronomical Society of the Pacific	2018-03-76-OSU		135,445
		Education and Human Resources	47.076	Bentley University	2303-02		49,759

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		Education and Human Resources	47.076	California State University, Long Beach	S2321191000SU		15,711
		Education and Human Resources	47.076	Gulf of Maine Research Institute	30-LVAISL-OSU		64,150
		Education and Human Resources	47.076	Knology	1612729		66,859
		Education and Human Resources	47.076	Northeastern University, Boston, MA	502780-78051		12,163
		Education and Human Resources	47.076	Pratt Institute	1612719		78,024
		Education and Human Resources	47.076	Swinomish Indian Tribal Community	2019-2501		55,684
		Education and Human Resources	47.076	University of California Berkeley	00009327		20,685
		Education and Human Resources	47.076	University of California Berkeley	10051886-S3 /		
		Education and Human Resources	47.076	University of Utah	U000220351		23,191
		Education and Human Resources	47.076	University of Washington	UWSC11099/BPO39225		82,035
		Education and Human Resources	47.076	University of Washington	UWSC7971/BPO2762		(36,251)
		Education and Human Resources	47.076	University of Washington	UWSC7971/BPO2762		4,382,138
		Engineering Grants	47.041	Colorado State University	G-00973-1	87,975	133,196
		Engineering Grants	47.041	Rutgers, The State University of New Jersey	0391	10,497	8,379
		Engineering Grants	47.041	ThermaWatts LLC	2020-5523		33,000
		Engineering Grants	47.041	University of California / San Diego	129207183/S9002586		38,218
		Engineering Grants	47.041	University of California / San Diego	1553393 / PO#		
		Engineering Grants	47.041	University of Colorado Boulder	1000568175		16,647
		Engineering Grants	47.041	University of Colorado Boulder	1558570 \ PO1001272371		12,057
		Engineering Grants	47.041	University of Virginia	GA11366.160195		17,546
		Engineering Grants	47.041	University of Washington	UWSC8669/BPO 10063		334,000
		Engineering Grants	47.041	University of Washington	UWSC9420/BPO 18494		33,115
		Engineering Grants	47.041	Waste2Watergy	2015-2535		(19)
		Engineering Grants	47.041	Waste2Watergy	2015-2535	408,679	6,698,350
		Geosciences	47.050	Colorado School of Mines	401574-5805		2,343
		Geosciences	47.050	Columbia University	6 (GG009393)		176,641
		Geosciences	47.050	Columbia University	6B (GG009393)		934
		Geosciences	47.050	Incorporated Research Institutions for Seismology	SU-19-1001-05-OSU	126,293	339,614
		Geosciences	47.050	University of Alaska - Fairbanks	UAF 20-0026 / PO539124		18,055
		Geosciences	47.050	University of Arizona	4010190 / PO 241794		96,177
		Geosciences	47.050	University of California at Santa Cruz	A17-0931-S001-P0690785		22,535
		Geosciences	47.050	University of Hawaii	MA 1390 /PO# Z10181865		80,509
		Geosciences	47.050	University of Texas at Austin	UTA17-000311		152,317
		Geosciences	47.050	University of Texas at Austin	10037588-OR / PO		
		Geosciences	47.050	University of Utah	U000192190		20,009
		Geosciences	47.050	Woods Hole Oceanographic Institution	A101404 OCE-1743430 (CA)		6,343,054
		Geosciences	47.050	Woods Hole Oceanographic Institution	A101404 OCE-1743430 (CA)	1,256,133	63,913,095
		International Ocean Discovery Program Expedition 354 Bengal Fan	47.000	Consortium for Ocean Leadership	T354A11		21
		IPA Agreement Peszynska (DB 3251 CTW)	47.000	Consortium for Ocean Leadership	T354A11		148,814
		Mathematical and Physical Sciences	47.049	American Physical Society	EP3-003-2018		49,877
		Mathematical and Physical Sciences	47.049	University of Wisconsin-Milwaukee	193405413		93,662
		Mathematical and Physical Sciences	47.049	University of Wisconsin-Milwaukee	193405413	148,565	3,266,295
		Office of Integrative Activities	47.083	Indiana University	8109-OSU / PO0075797		256,327
		Office of Integrative Activities	47.083	University of Missouri	C00060846-3		26,154
		Office of Integrative Activities	47.083	University of Missouri	C00060846-3		254,092

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		Polar Programs	47.078				31,300
		Social, Behavioral, and Economic Sciences	47.075	Montana State University	G116-19-W7346		28,163
		Social, Behavioral, and Economic Sciences	47.075				297,622
		The effects of shortened school years on school district finances, school programs, and principal and teacher perceptions of school climate	47.000	American Educational Research Association	2018-2566		14,289
	<i>National Science Foundation Total</i>					2,847,941	99,001,646
	Nuclear Regulatory Commission	Maintenance and Development of the VARSKIN 5 Computer Code	77.000				18,551
		U.S. Nuclear Regulatory Commission Scholarship and Fellowship Program	77.008				221,601
	<i>Nuclear Regulatory Commission Total</i>					-	240,152
	Total Research and Development Cluster					17,189,837	218,073,334
Childcare and Development Fund	Department of Health and Human Services	Child Care and Development Block Grant	93.575	Oregon Dept of Education	10854		154,539
		Child Care and Development Block Grant	93.575	Oregon Dept of Education	12343		67,583
		Child Care and Development Block Grant	93.575	Oregon Dept of Education	Not Available		(937)
	Total Childcare and Development Fund					-	221,185
Child Nutrition Cluster	Department of Agriculture	Summer Food Service Program for Children	10.559	Oregon Dept of Education	1815001		1,293
	Total Child Nutrition Cluster					-	1,293
Fish and Wildlife	Department of the Interior	Wildlife Restoration and Basic Hunter Education	15.611	Alaska Department of Fish and Game	CT 160001029/160001422		(145)
		Wildlife Restoration and Basic Hunter Education	15.611	Alaska Department of Fish and Game	CT 180000933		50,979
		Wildlife Restoration and Basic Hunter Education	15.611	Nevada Department of Wildlife	SG20-11		1,146
		Wildlife Restoration and Basic Hunter Education	15.611	Oregon Dept of Fish & Wildlife	080-16		199
		Wildlife Restoration and Basic Hunter Education	15.611	Oregon Dept of Fish & Wildlife	093-16		(313)
		Wildlife Restoration and Basic Hunter Education	15.611	Oregon Dept of Fish & Wildlife	144-15		229,749
		Wildlife Restoration and Basic Hunter Education	15.611	Oregon Dept of Fish & Wildlife	249-18		188,252
		Wildlife Restoration and Basic Hunter Education	15.611	Texas Parks and Wildlife	499990 / 490790		535
		Wildlife Restoration and Basic Hunter Education	15.611	Wyoming Game & Fish Department	003084		17,207
		Wildlife Restoration and Basic Hunter Education	15.611	Wyoming Game & Fish Department	003133		23,843
		Wildlife Restoration and Basic Hunter Education	15.611	Wyoming Game & Fish Department	2852		4,575
	Total Fish and Wildlife Cluster						516,027
Highway Planning and Construction	Department of Transportation	Highway Planning and Construction	20.205	Oregon Dept of Transportation	30530-18-02		17,884
		Highway Planning and Construction	20.205	Oregon Dept of Transportation	30530-19-01	29,102	97,588
		Highway Planning and Construction	20.205	Oregon Dept of Transportation	30530-19-05		24,843
		Highway Planning and Construction	20.205	Oregon Dept of Transportation	30530-19-07		37,444
		Highway Planning and Construction	20.205	Oregon Dept of Transportation	31867-01		(1)
		Highway Planning and Construction	20.205	Oregon Dept of Transportation	33062-01		11,752
		Highway Planning and Construction	20.205	Oregon Dept of Transportation	33062-02		41,656
		Highway Planning and Construction	20.205	Oregon Dept of Transportation	33062-03		29,868
		Highway Planning and Construction	20.205	Oregon Dept of Transportation	34003		12,456
		Highway Planning and Construction	20.205	Oregon Dept of Transportation	RS-15-77-01		(4,353)
		Highway Planning and Construction	20.205	Oregon Dept of Transportation	RS-18-77-01		(962)
		Highway Planning and Construction	20.205	Oregon Dept of Transportation	RS-19-77-01		130,172
		Highway Planning and Construction	20.205	Oregon Dept of Transportation	RS-20-77-01		132,240
	Total Highway Planning and Construction Cluster					29,102	530,584

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Highway Safety							
	Department of Transportation	National Priority Safety Programs	20.616	Oregon Dept of Transportation	M9MT-19-50-02	-	8,198
	Total Highway Safety Cluster					-	8,198
Medicaid Cluster							
	Department of Health and Human Services	Medical Assistance Program	93.778	Oregon Department of Human Services	160110		155,786
		Medical Assistance Program	93.778	Oregon Health Authority	159940		1,274,925
	Total Medicaid Cluster					-	1,430,711
SNAP							
	Department of Agriculture	State Administrative Matching Grants for the Supplemental Nutrition Assistance Program	10.561	Oregon Department of Human Services	152303	25,442	5,317,773
		State Administrative Matching Grants for the Supplemental Nutrition Assistance Program	10.561	Oregon Department of Human Services	152303 Amd 2	75,710	2,021,581
		State Administrative Matching Grants for the Supplemental Nutrition Assistance Program	10.561	Oregon Department of Human Services	152781 Amd 1		510
		State Administrative Matching Grants for the Supplemental Nutrition Assistance Program	10.561	Oregon Department of Human Services	158399		49,498
	Total SNAP Cluster					101,152	7,389,362
TRIO							
	Department of Education	TRIO Student Support Services	84.042				613,029
		TRIO Upward Bound	84.047				267,440
	Total TRIO Cluster					-	880,469
Other							
	Department of Agriculture	Agricultural Research Basic and Applied Research	10.001	USDA - Ag Research Service	59-5090-8-001	-	29,520
		Agricultural Research Basic and Applied Research	10.001			-	29,353
						-	58,873
		Agriculture and Food Research Initiative (AFRI)	10.310	University of Nebraska	25-6226-0546-008	-	2,079
		Agriculture and Food Research Initiative (AFRI)	10.310	University of Vermont	32556SUB52591	-	7,532
		Agriculture and Food Research Initiative (AFRI)	10.310			3,500	135,513
						3,500	145,124
		Cooperative Extension Service	10.500	Kansas State University	S19117	-	832
		Cooperative Extension Service	10.500	Kansas State University	S19153 / PO-19-00144788	-	491
		Cooperative Extension Service	10.500	Washington State University	134194 G004015	-	25,747
		Cooperative Extension Service	10.500			-	4,727,926
						-	4,754,995
		Crop Protection and Pest Management Competitive Grants Program	10.329	University of California Agriculture & Natural Resources	SA14-2309-03	-	3,802
		Crop Protection and Pest Management Competitive Grants Program	10.329	University of California Agriculture & Natural Resources	SA18-4060-01	-	75,134
		Crop Protection and Pest Management Competitive Grants Program	10.329			-	372,371
						-	451,307
		Don't Pack a Pest Campaign	10.000	Oregon Dept of Agriculture	ODA-3960-IG	-	96
		Growing Forestry Capacity in Peru	10.000			-	37,860
		Inner City Youth Institute	10.000			-	9,624
		Klamath County School District Farm-to-School: Feeding our Students, Farmers and Economy	10.000	Klamath County School District	Not Available	-	4,249

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		Landscape Scale Restoration (LSR) Forestry Education	10.000	Oregon Dept of Forestry	18-DG-11062765-715	-	37,748
		My Southern Oregon Woodlands - Oregon Woodscamp Coordination	10.000	American Forest Foundation	NR183A7500120002	-	0
		Niche Meat Processor Assistance Network (NMPAN)	10.000			7,789	47,955
		Northwest Fire Science Consortium	10.000			-	33,298
		Oregon Explorer Western Wildfire Risk Assessment Project	10.000	Oregon Dept of Forestry	2015-1549	-	0
		Oregon Forest Pest Detector	10.000	Oregon Dept of Forestry	2016-1951	-	28,103
		Oregon Wildfire Risk Explorer Enhancement	10.000	Oregon Dept of Forestry	19-4102-0120	-	12,217
		Research Natural Areas Establishment and Management	10.000			-	(381)
		Wilderness solitude monitoring and wilderness character development	10.000			-	25,000
						7,789	235,769
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	5013	-	70,925
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA 3514 GR	-	360
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA-18-007-GR	-	66,005
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA-18-015-GR	-	78,333
		Specialty Crop Block Grant Program - Farm Bill	10.170	Oregon Dept of Agriculture	ODA-3699-GR	-	(39,120)
		Specialty Crop Block Grant Program - Farm Bill	10.170	University of California, Davis	A18-1176-S0001	-	21,567
						-	198,069
		Sustainable Agriculture Research and Education	10.215	Montana State University	G175-19-W7506/ PO-106491	3,997	28,185
		Sustainable Agriculture Research and Education	10.215	Montana State University	G243-20-W7506	-	7,683
		Sustainable Agriculture Research and Education	10.215	University of Idaho	AT4151-SB-768892	-	1,203
		Sustainable Agriculture Research and Education	10.215	Utah State University	150893-00001-183	-	32,051
		Sustainable Agriculture Research and Education	10.215	Utah State University	200592-379	-	32,382
		Sustainable Agriculture Research and Education	10.215	Utah State University	201207-584	-	25,239
		Sustainable Agriculture Research and Education	10.215			-	1,689
						3,997	128,432
		Organic Agriculture Research and Extension Initiative	10.307	Clemson University	2049-207-2012799	-	4,691
		Organic Agriculture Research and Extension Initiative	10.307	Cornell University	64325-9780	-	(15)
		Organic Agriculture Research and Extension Initiative	10.307	Cornell University	90031-11291	-	23,445
		Organic Agriculture Research and Extension Initiative	10.307	Lincoln University	2017-3628	-	8,533
		Organic Agriculture Research and Extension Initiative	10.307	Montana State University	G211-19-W7408	-	4,214
		Organic Agriculture Research and Extension Initiative	10.307	Purdue University	8000064233-AG	-	(5,953)
		Organic Agriculture Research and Extension Initiative	10.307	The Organic Center for Education & Promotion	17-1080	-	(0)
		Organic Agriculture Research and Extension Initiative	10.307	Tuskegee University	22091 410 62112	-	32,568
		Organic Agriculture Research and Extension Initiative	10.307	University of Georgia	SUB00000868	-	139
		Organic Agriculture Research and Extension Initiative	10.307	University of Illinois, Urbana-Champaign	088736-16613	-	2,598
		Organic Agriculture Research and Extension Initiative	10.307	University of Minnesota	H007332401	-	9,383
		Organic Agriculture Research and Extension Initiative	10.307	Utah State University	14082303-280	-	4,012
		Organic Agriculture Research and Extension Initiative	10.307	Utah State University	201160-457	-	14,416
		Organic Agriculture Research and Extension Initiative	10.307	Washington State University	126216-G003508	-	19,657
		Organic Agriculture Research and Extension Initiative	10.307	Washington State University	128622-G003948	-	13,835
		Organic Agriculture Research and Extension Initiative	10.307			-	59,324
						-	190,846
		Beginning Farmer and Rancher Development Program	10.311			39,453	155,205
		Child and Adult Care Food Program	10.558	Oregon Dept of Education	02-15002	-	15,706
		Cooperative Forestry Assistance	10.664	U.S. Endowment for Forestry & Communities, Inc.	E19-64	-	57,931
		Environmental Quality Incentives Program	10.912	KCoe Isom LLP	18-2126	-	4,730

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		Farm and Ranch Stress Assistance Network Competitive Grants Program	10.525	Washington State University	137288-G04122	-	3,607
		Forestry Research	10.652			-	12,057
		Higher Education - Multicultural Scholars Grant Program	10.220			-	101,853
		Higher Education Graduate Fellowships Grant Program	10.210			-	28,130
		Integrated Programs	10.303	University of Maryland	52301-Z5671002	-	(6,593)
		International Forestry Programs	10.684			-	5,727
		National Food Safety Training, Education, Extension, Outreach, and Technical Assistance Competitive Grants Program	10.328			11,641	213,288
		Outreach and Assistance for Socially Disadvantaged and Veteran Farmers and Ranchers	10.443			10,675	24,176
		Plant and Animal Disease, Pest Control, and Animal Care	10.025			-	271,130
		Regional Conservation Partnership Program	10.932	Pinchot Institute for Conservation	2016-1196	-	7,798
		Secondary and Two-Year Postsecondary Agriculture Education Challenge Grants	10.226			4,924	8,282
		Soil and Water Conservation	10.902			-	53,601
		Technical Agricultural Assistance	10.960			4,255	134,464
		Value-Added Producer Grants	10.352	University of Vermont	32499SUB52482	-	9,212
		Wholesale Farmers and Alternative Market Development	10.164			-	16,180
	<i>Department of Agriculture Total</i>					86,234	7,279,901
Department of Commerce		External Coordinator for the Center for Independent Experts	11.000	NTVI Communications, Inc.	SA-14-NOAA-02 Task Order 01	-	25,189
		NOAA NEWPORT OPERATION AND MAINTENANCE	11.000			-	865,066
		Sea Grant Support	11.417			-	1,267,667
		Sea Grant Support	11.417	University of Connecticut	KFS5653840 / PO#368300	-	2,550
		Sea Grant Support	11.417	University of Washington	UWS11591 - 44969	-	5,398
		Marine Sanctuary Program	11.429			-	63,825
		NOAA Mission-Related Education Awards	11.008			-	2,000
	<i>Department of Commerce Total</i>					-	2,231,695
Department of Defense		Basic Scientific Research	12.431			-	(751)
		Community Economic Adjustment Assistance for Compatible Use and Joint Land Use Studies	12.610	Oregon Dept of Energy	19-075	-	31,549
		Participation in the Navy Marine Species Monitoring Program Review meeting 2019	12.000	HDR One Company	1000300001242	-	5,558
	<i>Department of Defense Total</i>					-	36,356
Department of Education		2016 Migrant Leadership Institute - Ontario School District	84.000	Ontario School District	11	-	3,771
		4H Teen Childcare Certification Program	84.000	South Coast Regional Early Learning Hub	029	-	1,595
		COVID-19 - Education Stabilization Fund - Institutional Support	84.425F			-	7,779,999
		COVID-19 - Education Stabilization Fund - Student Financial Aid	84.425E			-	7,779,999
		Migrant Education State Grant Program	84.011	Forest Grove School District	No. 010	-	3,429
		Migrant Education State Grant Program	84.011	Oregon Dept of Education	10657	-	(1,620)

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		Migrant Education State Grant Program	84.011	Oregon Dept of Education	11687 / 50228	-	(1)
		Migrant Education State Grant Program	84.011	Oregon Dept of Education	12344/Sub Grant 54280	-	324,146
		Migrant Education State Grant Program	84.011	Oregon Dept of Education	12892	-	14,570
						-	340,524
		Gaining Early Awareness and Readiness for Undergraduate Programs	84.334			642,934	2,729,705
		Migrant Education College Assistance Migrant Program	84.149			-	371,766
		Migrant Education High School Equivalency Program	84.141			-	559,963
	<i>Department of Education Total</i>					642,934	19,567,322
Department of Energy		Better Scientific Software Fellowship	81.000	DOE Oak Ridge National Laboratory	4000168106	-	7,203
		Joint Appointment for Prof Heidi Schellman	81.000	Fermi National Accelerator Laboratory	POO 663188	-	49,706
		National Defense Science and Engineering Graduate Fellowship - Daniel Watkins	81.000	American Society for Engineering Education	Not Available	-	1,977
		National Defense Science and Engineering Graduate Fellowship - Hannah Rolston	81.000	American Society for Engineering Education	Not Available	-	1,904
		National University Consortium Joint Appointment	81.000	Idaho National Laboratory	161644-0002	-	56,033
		Nonproliferation and Safeguards Seminar Series	81.000	DOE Pacific Northwest National Lab	445770-501928	-	13,614
		Radiological Emergency Response Training	81.000	Oregon Dept of Energy	19-008	-	11,863
		Robertson Joint Appointment Agreement	81.000	DOE Pacific Northwest National Lab	445770-497586	-	13,603
						-	155,904
		Renewable Energy Research and Development	81.087	American Institute of Chemical Engineers	DE-EE0007888.10.9a	-	123,879
		Renewable Energy Research and Development	81.087	Pacific Ocean Energy Trust	TEAMER.TB.OSU	-	15,094
		Renewable Energy Research and Development	81.087	University of California, Los Angeles	4550 G WA295	-	16,859
						-	155,831
		Energy Efficiency and Renewable Energy Information Dissemination, Outreach, Training and Technical Analysis/Assistance	81.117			-	319,647
		Nuclear Energy Research, Development and Demonstration	81.121			-	156,998
	<i>Department of Energy Total</i>					-	788,380
Department of Health and Human Services		ICF Conference	93.000	ICF International	19CBPA0064 161645		1,773
		Substance Abuse and Mental Health Services Projects of Regional and National Significance	93.243				3,000
	<i>Department of Health and Human Services Total</i>					-	4,772
Department of Homeland Security		Homeland Security Grant Program	97.067	Central Oregon Community College	18-205		258
Department of Justice		Juvenile Mentoring Program	16.726	National 4-H Council	2015 NMP6	-	(23)
		Juvenile Mentoring Program	16.726	National 4-H Council	2015-1655-NMP5	-	(4)
		Juvenile Mentoring Program	16.726	National 4-H Council	4H NMP 9	-	53,567
		Juvenile Mentoring Program	16.726	National 4-H Council	4H NMP10	-	1,447
		Juvenile Mentoring Program	16.726	National 4-H Council	4HNMP Yr9	-	13,408
		Juvenile Mentoring Program	16.726	National 4-H Council	4HNMP10	-	14,581
						-	82,975

**Oregon State University
Schedule of Expenditures of Federal Awards
For the Year Ended June 30, 2020**

<i>Cluster</i>	<i>Federal Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed through to Subrecipients</i>	<i>Total Expenditures</i>	
		Promoting Evidence Integration in Sex Offender Management Discretionary Grant Program	16.203	Portland State University	100102	-	23,308	
		<i>Department of Justice Total</i>					-	106,282
Department of the Interior		Continued Computer Support for High Resolution Regional Climate Data	15.000			-	4,437	
		CVA Outreach, Education, and Maintenance Training	15.000	Oregon State Marine Board	1719-FAC-001	-	141,792	
		USGS IPA Cascadia Mapping	15.000			-	25,472	
							-	171,701
		Cooperative Ecosystem Studies Units	15.678				18,084	
		Cooperative Research and Training Programs Resources of the National Park System	15.945				241,441	
		Cultural and Paleontological Resources Management	15.224				(770)	
		Forests and Woodlands Resource Management	15.233				4,794	
		Recreation Resource Management	15.225				14,104	
		Secure Rural Schools and Community Self-Determination	15.234				1,240	
		U.S. Geological Survey Research and Data Collection	15.808				137,215	
		<i>Department of the Interior Total</i>					-	587,809
Department of Transportation		TLE Modernization	20.000	Oregon Dept of Transportation	26828-030	-	-	
		WO32 - Major Incident	20.000	Oregon Dept of Transportation	26828-032	-	32,528	
							-	32,528
		University Transportation Centers Program	20.701	University of Washington	UWSC10006/BPO26179	-	82,428	
		University Transportation Centers Program	20.701	University of Washington	UWSC10011/BPO26198	-	51,987	
		University Transportation Centers Program	20.701	University of Washington	UWSC10012/BPO26202	-	11,139	
		University Transportation Centers Program	20.701	University of Washington	UWSC11735/BPO46693	-	6,528	
							-	152,082
		<i>Department of Transportation Total</i>					-	184,610
Department of Veterans Affairs		IIR 17-039 Improving Veteran Health by Increasing Dental Stewardship of Antibiotics and Opioids	64.000			-	21,131	
		Veteran's Economic Burden for Healthcare Under VA and non-VA Health Plan Coverage	64.000	US Department of Veterans Affairs	PO 648-D93059	-	-	
							-	21,131
		VHA Primary Care	64.047			-	(13,933)	
		<i>Department of Veterans Affairs Total</i>					-	7,198

**Oregon State University
Schedule of Expenditures of Federal Awards
For the Year Ended June 30, 2020**

<i>Cluster</i>	<i>Federal Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed through to Subrecipients</i>	<i>Total Expenditures</i>
	Environmental Protection Agency	Research, Development, Monitoring, Public Education, Outreach, Training, Demonstrations, and Studies	66.716			13,284	936,181
		Research, Development, Monitoring, Public Education, Outreach, Training, Demonstrations, and Studies	66.716	eXtension Foundation	SA-2019-62	-	6,216
		Research, Development, Monitoring, Public Education, Outreach, Training, Demonstrations, and Studies	66.716	University of California, Davis	201600040-01/A16-0211-S001-A05	-	95,940
		Research, Development, Monitoring, Public Education, Outreach, Training, Demonstrations, and Studies	66.716	University of California, Davis	A18-0208-S001	-	46,060
						13,284	1,084,397
		Evaluating PSEM for the General Public	66.000	Oregon Dept of Agriculture	ODA-4204-IG	-	16,517
		Nonpoint Source Implementation Grants	66.460	Oregon Dept of Environmental Quality	128-20	-	2,440
		Office of Research and Development Consolidated Research/Training/Fellowships	66.511	Oregon Dept of Environmental Quality		-	11,446
		Pollution Prevention Grants Program	66.708		001-18	-	66,917
	<i>Environmental Protection Agency Total</i>					13,284	1,181,717
	National Aeronautics and Space Administration	Science	43.001			-	83,321
		Science	43.001	University of Washington	UWSC8887/BPO13185	(1,329)	(1,329)
						(1,329)	81,992
		Education	43.008			81,525	935,090
	<i>National Aeronautics and Space Administration Total</i>					80,197	1,017,082
	National Endowment for the Humanities	Promotion of the Humanities Office of Digital Humanities	45.169				(1,804)
	Nuclear Regulatory Commission	U.S. Nuclear Regulatory Commission Scholarship and Fellowship Program	77.008				89,492
	<i>Total Other</i>					822,648	33,081,071
	Total Federal Expenditures					\$ 18,142,739	\$ 453,822,898

**OREGON STATE UNIVERSITY
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2019**

NOTE 1 BASIS OF PRESENTATION

The accompanying schedule of expenditures of federal awards (the Schedule) includes the federal award activity of Oregon State University under programs of the federal government of the year ended June 30, 2020. The information in this Schedule is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance). Because the Schedule presents only a selected portion of the operations of Oregon State University, it is not intended to and does not present the financial position, changes in net position, or cash flows of Oregon State University.

NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Expenditures reported on the Schedule are reported on the accrual basis of accounting. Such expenditures are recognized following the cost principles contained in the Uniform Guidance, wherein certain types of expenditures are not allowable or are limited as to reimbursement. Negative amounts shown on the Schedule, if any, represent adjustments or credits made in the normal course of business to amounts reported as expenditures in prior years. Oregon State University has elected not to use the 10-percent de minimis indirect cost rate allowed under the Uniform Guidance.

NOTE 3 FEDERAL STUDENT LOAN PROGRAMS

The federal student loan program listed subsequently is administered directly by Oregon State University, and balances and transactions relating to these programs are included in Oregon State University's basic financial statements. Loans outstanding at the beginning of the year and loans made during the year are included in the federal expenditures presented in the Schedule. The balance of loans outstanding at June 30, 2020 consists of:

<u>Program Title</u>	<u>CFDA Number</u>	<u>Amount Outstanding</u>
Perkins Loans	84.038	\$17,893,550

**OREGON STATE UNIVERSITY
SCHEDULE OF FINDINGS AND QUESTIONED COSTS
FOR THE YEAR ENDED JUNE 30, 2020**

Section I – Summary of Auditors’ Results

Financial Statements

1. Type of auditors’ report issued: Unmodified
2. Internal control over financial reporting:
- Material weakness(es) identified? yes no
 - Significant deficiency(ies) identified? yes none reported
3. Noncompliance material to financial statements noted? yes no

Federal Awards

1. Internal control over major federal programs:
- Material weakness(es) identified? yes no
 - Significant deficiency(ies) identified? yes none reported
2. Type of auditors’ report issued on Compliance for major federal programs: Unmodified
3. Any audit findings disclosed that are required to be reported in accordance with 2 CFR 200.516(a)? yes no

Identification of Major Federal Programs

CFDA Number(s)	Name of Federal Program or Cluster
Various	Research and Development Cluster
10.561	State Nutritional Assistance Program
84.425E, 84.425F	COVID-19 – Education Stabilization Fund

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

Auditee qualified as low-risk auditee? yes no

**OREGON STATE UNIVERSITY
SCHEDULE OF FINDINGS AND QUESTIONED COSTS
FOR THE YEAR ENDED JUNE 30, 2020**

Section II – Financial Statement Findings

2020-001

Type of Finding:

- Significant Deficiency in Internal Control over Financial Reporting

Government Auditing Standards allow for information that is considered sensitive in nature, such as detailed information related to information technology system security, to be issued through a separate “classified or limited use” report. This is due to the potential damage that could be caused by the misuse of that information. We consider the specific technical details of this finding to be sensitive in nature and not appropriate for public disclosure. Therefore, the details of the following finding have been provided to the University’s management and governance in a separate, confidential memorandum.

Condition: During fiscal year 2020, the University’s internal control structure failed to prevent a confidential issue that has been communicated to management and governance in a detailed confidential memorandum.

Criteria or Specific Requirement: Management is responsible for establishing and maintaining internal controls to safeguard an organization’s assets to prevent fraud and error.

Context: The confidential memorandum details the full context of this issue.

Effect: The confidential memorandum details the effect on the University.

Cause: University controls failed to prevent the confidential matter referred to above.

Repeat Finding: This is not a repeat finding.

Recommendation: A full description of the recommendation has been communicated to management and governance in the memorandum discussed above.

Views of Responsible Officials and Planned Corrective Actions: A full description of management’s views and planned corrective actions is included in the memorandum discussed above.

**OREGON STATE UNIVERSITY
SCHEDULE OF FINDINGS AND QUESTIONED COSTS
FOR THE YEAR ENDED JUNE 30, 2020**

Section III – Federal Awards

Our audit did not disclose any matters required to be reported in accordance with Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administration Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance).



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Corvallis, Oregon 97339-1086

Section IV – Prior Year Findings

FINDINGS—FINANCIAL STATEMENT AUDIT

There were no financial statement findings in the prior year.

FINDINGS— FEDERAL AWARD PROGRAMS AUDITS

2019 – 001 : Enrollment Reporting

Condition: During our testing of a sample of 40 students who had a change in enrollment status during the period under audit, we noted that one student’s social security number provided as a part of the submission roster was rejected by the National Student Clearinghouse (NSC), returned to the University in the transmission error report and was not resolved in a timely manner.

Status: This item was resolved in 2020.



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Department of Health and Human Services

Oregon State University respectfully submits the following corrective action plan for the year ended June 30, 2020.

Audit period: July 1, 2019 - June 30, 2020

The findings from the schedule of findings and questioned costs are discussed below. The findings are numbered consistently with the numbers assigned in the schedule.

FINDINGS—FINANCIAL STATEMENT AUDIT

SIGNIFICANT DEFICIENCY – CONFIDENTIAL MATTER

2020-001 Significant Deficiency in Internal Control Over Financial Reporting

Recommendation: As allowed by Government Auditing Standards, a confidential memorandum details the recommendation related to the deficiency identified.

Explanation of disagreement with audit finding: There is no disagreement with the audit finding.

Action taken in response to finding: See separate confidential memorandum.

Name of the contact person responsible for corrective action: Heidi Sann, Associate VP for Finance and Controller.

Planned completion date for corrective action plan: November 2020.

FINDINGS—FEDERAL AWARD PROGRAMS AUDITS

Our audit did not disclose any findings or questioned costs related to Major Federal Programs required to be reported in accordance with Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance).

If the Department of Health and Human Services has questions regarding this plan, please call Heidi Sann Associate VP for Finance and Controller at 541-737-7423.