

**OREGON STATE UNIVERSITY**  
**SINGLE AUDIT REPORT**  
**FOR THE YEAR ENDED JUNE 30, 2021**



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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, 2021 and 2020, and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated November 1, 2021. Our report includes a reference to other auditors who audited the financial statements of the Oregon State University Foundation (the Foundation), which represents 97%, 98% and 96%, respectively, of the assets, net assets, and revenues of the aggregate discretely presented component units for 2021. In addition, we did not audit the 2020 financial statements of the Foundation and the Agricultural Research Foundation (ARF), which represent 100 percent of the assets, net assets, and revenues of the aggregate discretely presented component units for 2020. 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 2021 financial statements of the Foundation and the 2020 financial statements for both the Foundation and ARF 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.

### **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  
November 1, 2021



**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, 2021. 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 each of the University's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each of 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 each of its major federal programs for the year ended June 30, 2021.

### ***Other Matters***

The results of our auditing procedures disclosed instances of noncompliance, which are required to be reported in accordance with the Uniform Guidance and which are described in the accompanying schedule of findings and questioned costs as items 2021-001 and 2021-002. Our opinion on each of the major federal programs is not modified with respect to these matters.

The University's responses to the noncompliance findings identified in our audit are described in the accompanying Schedule of Findings and Questioned Costs. The University's responses were not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the response.

### **Report on Internal Control over Compliance**

Management of the University is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the University's internal control over compliance with the types of requirements that could have a direct and material effect on each of 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 each of 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 have not been identified. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, we did identify certain deficiencies in internal control over compliance, described in the accompanying schedule of findings and questioned costs as items 2021-001 and 2021-002, that we consider to be significant deficiencies.

The University's responses to the internal control over compliance findings identified in our audit are described in the accompanying Schedule of Findings and Questioned Costs. The University's responses were not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the responses.

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 year ended June 30, 2021, and the related notes to the financial statements, which collectively comprise the University's basic financial statements. We issued our report thereon dated November 1, 2021, 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 (the Foundation), which represents 97%, 98% and 96%, respectively, of the assets, net assets, and revenues of the aggregate discretely presented component units for 2021, 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  
September 12, 2022

**Oregon State University  
Schedule of Expenditures of Federal Awards  
For the Year Ended June 30, 2021**

Cluster	Federal Grantor	Program Title	AL Number	Additional Award Identification	Pass-Through Entity	Pass-Through Identifying Number	Passed through to Subrecipients	Total Expenditures
<b>Student Financial Aid</b>								
	<b>Department of Education</b>	Federal Direct Student Loans	84.268					131,247,757.00
		Federal Pell Grant Program	84.063					29,484,972.81
		Federal Perkins Loan Program_Federal Capital Contributions	84.038					17,893,550.30
		Federal Supplemental Educational Opportunity Grants	84.007					1,427,562.00
		Federal Work-Study Program	84.033					785,508.92
<b>Total Student Financial Aid Cluster</b>								<b>180,839,351.03</b>
<b>Research and Development</b>								
	<b>Agency for International Development</b>	Development of novel markers to contextualize X-ray fluorescence microscopy	98.000		Oregon Health & Science University	1014217_OSU		<b>20,416</b>
	<b>Department of Agriculture</b>	1890 Institution Capacity Building Grants	10.216		Kentucky State University	2018-1959 PO P0031459		30,690
		1994 Institutions Research Program	10.227		Northwest Indian College	NWIC-28757-01		24,191
		A bottom-up, stakeholder-driven CMS for regional biomass carbon dynamics: Phase 2	10.000					25,679
		A Decadal View of Willamette River Fish Communities	10.000					18,080
		Advancing the characterization and management of community wildfire risk	10.000					140,449
		Agricultural Research_Basic and Applied Research	10.001		USDA - Ag Research Service	59-5082-6-001		18,772
		Agricultural Research_Basic and Applied Research	10.001		Washington State University	138615 G004292		663
		Agricultural Research_Basic and Applied Research	10.001				211,279	8,045,476
		Agriculture and Food Research Initiative (AFRI)	10.310		Michigan State University	RC105883OR		43,722
		Agriculture and Food Research Initiative (AFRI)	10.310		University of California, Merced	224880S		148,256
		Agriculture and Food Research Initiative (AFRI)	10.310		University of Idaho	AN0746-SB-846463		728
		Agriculture and Food Research Initiative (AFRI)	10.310		University of Idaho	BJKQ80-SB-002 P0053120		162,872
		Agriculture and Food Research Initiative (AFRI)	10.310		University of Maryland	Z5775004		(729)
		Agriculture and Food Research Initiative (AFRI)	10.310		University of Virginia	GG12213 PO 2188867		154,667
		Agriculture and Food Research Initiative (AFRI)	10.310				511,920	2,896,964
		Alfalfa and Forage Research Program	10.330		Colorado State University	G-91480-02		34,833
		Alfalfa and Forage Research Program	10.330		Washington State University	131889-G003802		5,523
		Alfalfa and Forage Research Program	10.330		Washington State University	136670 SPC001707		21,134
		Analyzing forest response to drought and restoration.	10.000					2,692
		Animal Health and Disease Research	10.207					90,235
		ANNUAL VARIATION IN ABUNDANCE OF SMALL MAMMALS ON THE H. J. ANDREWS EXPERIMENTAL FOREST, OREGON	10.000					6,004
		Application & expansion of FIA monitoring data to answer new questions	10.000					16,670
		Aquatic Biodiversity in Forested Environments	10.000					2,179
		Aquatic food base beta diversity in the Fossil-Verde ecosystem	10.000					820
		Assessing forest ecosystem health with long-term plots and high resolution remote sensing	10.000					36,306
		Assessing fuel treatment effectiveness and landscape resiliency after 2014 and 2015 wildfire seasons in north-central Washington State	10.000					25,046
		Biological Control for Knotweeds	10.000					2,658
		Biomass Research and Development Initiative Competitive Grants Program (BRDI)	10.312		The Ohio State University	60068526		59,441
		Biotechnology Risk Assessment Research	10.219					346,928
		Black stain root disease: An emerging threat to young Douglas-fir forests in the Oregon Coast range	10.000					18,594
		Bridging the Forest Restoration - Post-fire management Gap	10.000					8,128
		Caspar Creek: Analysis of water partitioning between soil water, groundwater, streams, and trees	10.000					21,082
		Center for Expediting Specialty Crop Registrations	10.000		Oregon Dept of Agriculture	ODA-4206-IG		66,142
		Center for Intensive Planted-Forest Silviculture (CIPS)	10.000					51,537
		CFLRP Forest Vegetation and Fuels Monitoring	10.000					152,904
		Climate change and silviculture: managing forests in the face of climate change	10.000					11,167
		Climate Change Effects on Coastal Riverscapes in the Pacific Northwest	10.000					25,687
		Collaboration for improving sample identification and developing genomic resources for western redcedar (Thuja plicata).	10.000					2,865
		Community Forestry, Forest Conservation, and Rural Community Development in the Western USA	10.000					19,990
		Cooperative Forestry Research	10.202					1,186,331
		Critical Zone Science along the Pacific Coastal Margin	10.000					(87)
		Crop Insurance	10.450					2,385,156
		Crop Protection and Pest Management Competitive Grants Program	10.329		University of California Agriculture & Natural Resources	SA18-4060-20		2,624
		Crop Protection and Pest Management Competitive Grants Program	10.329		University of California Agriculture & Natural Resources	SA18-4060-27		7,019



Cluster	Federal Grantor	Program Title	AL Number	Additional Award		Pass-Through Identifying Number	Passed through to Subrecipients	Total Expenditures
				Identification	Pass-Through Entity			
		Crop Protection and Pest Management Competitive Grants Program	10.329					228,866
		Demography of Northern Spotted Owls in Oregon and Washington	10.000					10,063
		Demography of Northern Spotted Owls in Oregon and Washington.	10.000					806,271
		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		7,957
		Density Management and Riparian Buffer Study (DMS): Aquatic Vertebrates and Habitats	10.000					21,041
		Component, Pulse at Ten Years after 2nd Thinning	10.000					50,060
		Designing Cover Crop Systems for Eastern Oregon	10.000					
		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					55,092
		Developing the Next Generation Dynamic Vegetation Model for the Pacific Northwest	10.000					57,468
		Development of a best management practices guide for interstate shipments of queen cells	10.000		Project Apis m.			4,132
		Development of genetic tools to characterize three varieties of Leptographium wageneri (cause of black stain root disease) and assess their host ranges in western forests	10.000					26,677
		Development of the Next Generation Dynamic Vegetation Model for the Pacific Northwest	10.000					52,936
		Dry Farming Collaborative participatory research and decision-making tools, information sharing platforms, and resource development	10.000					(0)
		Enhancing Landslide Inventorying using LIDAR USFS Landslide Inventorying Tools using LIDAR and GIS	10.000					(0)
		Environmental Quality Incentives Program	10.912				130	331,720
		Environmental Quality Incentives Program	10.912		Sustainable Northwest	I-2020-OSUCIG-01		3,161
		Evaluating Biomass Equations for Pacific Northwest Tree Species	10.000					8,271
		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.			19,496
		Evaluating the impacts of Douglas-fir competition on the physiological processes of Oregon white oak	10.000					(39)
		Evaluating the nectar and pollen resources of alternative livestock forages to alfalfa	10.000		Project Apis m.	2019-1988		5,082
		Evaluation of Maintenance of Post-Fire Forest Cover in National Forests	10.000					20,054
		Evolution of rivers and landscapes in the Pacific Northwest: a critical zone perspective	10.000					41,753
		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		123,410
		Examining the Use of Cellulose Nano-materials in Slip Formed Concrete Applications	10.000		U.S. Endowment for Forestry & Communities, Inc.	20-00080		109,844
		Examining the Utilization of Cellulose Nanocrystals to Reduce the Carbon Footprint of Concrete	10.000		U.S. Endowment for Forestry & Communities, Inc.	E19-78	270	170,936
		Exotic species invasion dynamics in eastern Oregon and the Blue Mountain Ecoregion (BME)	10.000					125,973
		Exploring water quality and quantity responses to variability in climate at the HJ Andrews Experimental Forest	10.000					1,084
		Extending Forest Restoration to Post-Fire Forest Management	10.000					30,652
		Federal Cooperators Wood-Based Composite Center	10.000					6,700
		Fifty years of data: Natural history comparisons in Northern Rubber boas (Charina bottae) with long-term recapture records.	10.000					6,017
		Fire history in central Oregon: role of landscape heterogeneity and application to current management	10.000					6,666
		Fire Performance of Connections Made up of Custom CLT Layups Utilizing Pine from Logs Harvested in Western Forest Restoration Programs	10.000					35,218
		Fisher recolonization and recovery in Oregon	10.000					(603)
		Fitting Biomass Equations for Pacific Northwest Tree Species	10.000					260
		Food Insecurity Nutrition Incentive Grants Program	10.331		Farmers Market Fund	2021-2149		1,416
		Food web structure in freshwaters	10.000					222,511
		Forest Health Protection	10.680					77,846
		Forest Soil Carbon Vulnerability in Pacific Northwest Forests	10.000					2,689
		Forestry Research	10.652					3,790
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A18-0916-A081		8,019
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A18-0916-S054		(22)
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A18-0916-S060		338
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S013		17,921
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S014		16,437
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S015		13,843
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S016		13,138
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S023		28,419
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S032		154
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S064		10,891
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S046		65,171
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S033		3,974

Cluster	Federal Grantor	Program Title	AL Number	Additional Award		Pass-Through Identifying Number	Passed through to	
				Identification	Pass-Through Entity		Subrecipients	Total Expenditures
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S049		6,056
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S066		4,316
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S047		4,891
		Grants for Agricultural Research, Special Research Grants	10.200		University of California, Davis	A20-1347-S048		11,653
		Grants for Agricultural Research, Special Research Grants	10.200		University of Idaho	AP1008-SB2-870848 /PO PA048287		(4,851)
		Grants for Agricultural Research, Special Research Grants	10.200		University of Idaho	AP4292-870301		11,942
		Grants for Agricultural Research, Special Research Grants	10.200		University of Washington	UWSC11503 / BPO50236		39,339
		Grants for Agricultural Research, Special Research Grants	10.200		University of Washington	UWSC11598 / BPO45072		3,769
		Grants for Agricultural Research, Special Research Grants	10.200		University of Washington	UWSC9743/BPO31410		(3,917)
		Grants for Agricultural Research, Special Research Grants	10.200		University of Washington	UWSC11798 / BPO47457		38,273
		Grants for Agricultural Research, Special Research Grants	10.200		Washington State University	105577 G004147		312,363
		Grants for Agricultural Research, Special Research Grants	10.200					67,509
		Higher Education Graduate Fellowships Grant Program	10.210					4,415
		Historical Role of Fire in Westside Forests of the Pacific Northwest	10.000					45,336
		Homeland Security_Agricultural	10.304		University of California, Davis	201603794-03 / A17-0222-S011		59,898
		Identification and characterization of forest root disease pathogens in western USA using DNA-based tools	10.000					5,312
		Identifying aquatic species using environmental-DNA tools	10.000					168,472
		Implementation and effects monitoring of vegetation restoration treatments on Peck's mariposa lily	10.000					12,344
		Implementing Meadow Creek Cattle Grazing Practices to Evaluate Compatibility with Recovery of Threatened Salmonids	10.000					25,701
		Implementing Sustainable Meadow Creek Cattle Grazing Practices through Active Herd Management	10.000		USDA Forest Service	21-JV-11261962-022		2,247
		Influence of Landscape Disturbance on Opportunities to Achieve Land and Fire Management Objectives	10.000					(138)
		Innovations in mapping forest attribute change for stands, landscapes, and regions	10.000					46,571
		Integrated Programs	10.303		Washington State University	136643 G004163		57,313
		Integrated Programs	10.303					154,060
		Invasive species and fire and fuel dynamics in eastern Oregon and the Blue Mountain Ecoregion	10.000					6,713
		Investigating food web responses to stage-0 restoration in the South Fork McKenzie River	10.000					38,712
		Investigating the effects of mixed-severity wildfires on fisher population dynamics in northern California and southern Oregon	10.000					145,326
		Lidar for selecting stands for thinning and tree-lists	10.000					(166)
		Life History Resilience in Coastal Salmonids	10.000					27,454
		Mapping and identification of sources of lead hotspots in Portland, OR using isotope and analysis of moss	10.000					(225)
		Mapping and Understanding the Ventenata Invasion in the Blue Mountain Ecoregion	10.000					4,704
		Meadow Creek Pollinator Study - Bee-flower Relationships and Use of Restoration Plantings in a Restored Riparian System	10.000					17,187
		Meadow Creek Vegetation Responses to Ungulate Herbivory for Recovery of Threatened Salmonids and Stream and Riparian Restoration	10.000					37,295
		Modeling Species Composition with Remote Sensing	10.000					40,000
		Monitoring the long-term impacts of laminated root rot on Douglas-fir forests in western OR and WA	10.000					17,696
		Multidecadal Forest Vegetation and Change Assessment Over Regional Landscapes	10.000					120,845
		Multi-scale assessment of wildfire impacts to human and ecological values to support Forest Service fire management policy	10.000					54,078
		NORTH AMERICAN BAT MONITORING PROGRAM (NABat) USFS R6 COORDINATION AND SUPPORT	10.000					60,702
		Northwest Tree Improvement Cooperative	10.000					73,977
		Occupancy status of Northern Spotted Owls in the Fremont-Winema national Forest.	10.000					12,256
		Operational Feasibility Analysis for Cable-Assisted Logging Systems: Equipment Stability and Soil Disturbance	10.000					46,021
		Organic Agriculture Research and Extension Initiative	10.307		Cornell University	90033-20653		106,743
		Organic Agriculture Research and Extension Initiative	10.307		Purdue University	F0004577402021		34,691
		Organic Agriculture Research and Extension Initiative	10.307		University of Georgia	SUB0001847		101,527
		Organic Agriculture Research and Extension Initiative	10.307				491,005	1,097,506
		Payments to Agricultural Experiment Stations Under the Hatch Act	10.203					4,295,974
		Phytophthora Diagnostics	10.000					177,339
		Phytophthora Species Diagnostics	10.000					39,333
		Pilot Sampling for Vegetation and Ungulate Nutrition Monitoring at Starkey Experimental Forest and Range	10.000					24,646
		Plant and Animal Disease, Pest Control, and Animal Care	10.025		Colorado State University	G-92892-02		(3,798)
		Plant and Animal Disease, Pest Control, and Animal Care	10.025				8,760	545,211
		Plant and Animal Disease, Pest Control, and Animal Care	10.025		Virginia Tech	423540-19201		30,700
		Plant Materials for Conservation	10.905					20,493
		Post-fire response to forest management: Mitigation for improved water quality performance	10.000					9,237

Cluster	Federal Grantor	Program Title	AL Number	Additional Award		Pass-Through Identifying Number	Passed through to	
				Identification	Pass-Through Entity		Subrecipients	Total Expenditures
		Post-fire response to forest management: Mitigations for improved water quality performance	10.000					44,195
		Potatoes USA Trials	10.000		Potatoes USA	20-79		12,150
		Potatoes USA Trials	10.000		Potatoes USA	21-79		25,303
		Predator-prey ecology and management in the Pacific Northwest	10.000					53,933
		Processing and Analysis of Bioacoustics Data	10.000					64,596
		R1 Idaho NABat with NW Bat Hub - North American Bat Monitoring	10.000					16,910
		R4 Idaho NABat with NW Bat Hub - North American Bat Monitoring	10.000					10,939
		Regional- to National-Scale Landscape Modeling of Water Quality	10.000					48,969
		Remote Sensing for Forest Biodiversity	10.000					73,840
		Research Joint Venture and Cost Reimbursable Agreements	10.707					2,419
		Research Natural Area Establishment, Management, Data and Portal	10.000					1,662
		Response of Forest Aquatic Ecosystems to Riparian Canopy Modifications	10.000					40,989
		RPA Land-Use Modeling	10.000					93,165
		SageSTEP Travel/Administrative funds	10.000					6,695
		Satellite Direct Readout Collaboration	10.000					2,552
		Scenario planning development and case studies in the western US.	10.000					71,147
		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					20,324
		Small Business Innovation Research	10.212		E-Lambda LLC	2020-33610-31688		2,045
		Socio-economic Incentives and Drivers of Carbon Management by Private Forest Owners	10.000					37,903
		Soil and Water Conservation	10.902					245,900
		Soil carbon stabilization through physical, chemical, and biological weathering along the Pacific Coastal Margin	10.000					55,984
		Soil Survey	10.903					25,519
		Southern Blues CFLRP Forest Vegetation and Fuels Multi-Party Monitoring Program - Modification #4	10.000					(623)
		Spatial copula modeling of forest inventory variables	10.000					26,304
		Spatial Ecology and Survival of Small Carnivores in the HJ Andrews Experimental Forest, Oregon	10.000					48,762
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	5010		9,120
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	5011		42,889
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	5012		22,769
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	5014		25,374
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA-18-008-GR		38,847
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA-18-009-GR	3,070	42,953
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA-18-010-GR		85,072
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA-18-011-GR		79,379
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA-19008-GR		78,745
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA-19009-GR		78,758
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA-19010-GR		71,338
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA6028GR		66,550
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA6024GR		9,917
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA6025GR		52,816
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA6027GR		12,839
		Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA6026GR		45,361
		Specialty Crop Block Grant Program - Farm Bill	10.170		University of California Riverside	S-001084		32,689
		Specialty Crop Block Grant Program - Farm Bill	10.170		University of California, Davis	A21-0144-S003		14,800
		Specialty Crop Block Grant Program - Farm Bill	10.170		University of Idaho	AN4190-846301		6,910
		Specialty Crop Block Grant Program - Farm Bill	10.170		Washington State Dept Agriculture	K2868		67,929
		Specialty Crop Block Grant Program - Farm Bill	10.170		Washington State Dept Agriculture	K3145		801
		Specialty Crop Research Initiative	10.309		Colorado State University	G-01363-06		10,639
		Specialty Crop Research Initiative	10.309		Cornell University	79598-10785		7,386
		Specialty Crop Research Initiative	10.309		Michigan State University	RC111414C		39,898
		Specialty Crop Research Initiative	10.309		North Carolina State University	2017-0398-16		45,208
		Specialty Crop Research Initiative	10.309		Texas A & M University	M1900059		77,057
		Specialty Crop Research Initiative	10.309		University of California, Davis	A20-1531-S001		242,648
		Specialty Crop Research Initiative	10.309		University of Idaho	AN4829-846778		106
		Specialty Crop Research Initiative	10.309		University of Minnesota	H006335005		71,837
		Specialty Crop Research Initiative	10.309		University of Minnesota	H007082505		317,678
		Specialty Crop Research Initiative	10.309		Washington State University	123501-G003954	2,170	334,221
		Specialty Crop Research Initiative	10.309		Washington State University	125970-G003493		(2,451)
		Specialty Crop Research Initiative	10.309		Washington State University	133321-G004115		65,224
		Specialty Crop Research Initiative	10.309		Washington State University	137743 G004248		13,328
		Specialty Crop Research Initiative	10.309				493,242	872,639
		Specialty Crop Research Initiative	10.309		Tennessee State University	332.77-2.2184		71,576
		Stockpiling pasture legumes and forbs for honey bees and self-regeneration of pastures	10.000		Project Apis m.			5,630
		Sun Grant Program	10.320		South Dakota State University	3TB386		17,752

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				Identification	Pass-Through Entity			
		Sun Grant Program	10.320		South Dakota State University	3TB640		-
		Support for the H.J. Andrews Experimental Forest Field Station	10.000					172,249
		Sustainable Agriculture Research and Education	10.215		Montana State University	G145-20-W7503		15,802
		Sustainable Agriculture Research and Education	10.215		Montana State University	G146-20-W7503		(93)
		Sustainable Agriculture Research and Education	10.215		Montana State University	G159-20-W7503		14,377
		Sustainable Agriculture Research and Education	10.215		Montana State University	G233-19-W7502		(100)
		Sustainable Agriculture Research and Education	10.215		Montana State University	G245-19-W7502		1,352
		Sustainable Agriculture Research and Education	10.215		Montana State University	G258-19-W7500		84,662
		Sustainable Agriculture Research and Education	10.215		Montana State University	G121-21-W7901		46,887
		Sustainable Agriculture Research and Education	10.215		Montana State University	G253-21-W7906		5,534
		Sustainable Agriculture Research and Education	10.215		Montana State University	G315-21-W8614		11,908
		Sustainable Agriculture Research and Education	10.215		USDA - Ag Research Service	59-2092-1-001		4,877
		Sustainable Agriculture Research and Education	10.215		Utah State University	201207-543		2,230
		Sustainable Agriculture Research and Education	10.215		Utah State University	201207-549		67,016
		Sustainable Agriculture Research and Education	10.215		Utah State University	201207-555		(108)
		Sustainable Agriculture Research and Education	10.215		Utah State University	201207-573		19,985
		Sustainable Agriculture Research and Education	10.215		Shine Brothers Ranches, LLC	2021-1329		1,059
		The influence of ungulate herbivory and fire on Ventenata dubia invasion in the Blue Mountain Ecoregion (BME)	10.000					19,057
		Tracking aquatic species in streams using environmental-DNA	10.000					9,088
		Understanding more about the taxonomy of non-game freshwater fishes in the Pacific Northwest	10.000					4,839
		Understanding the role of fire refugia in promoting forest ecosystem resilience	10.000					42,896
		Using Lidar to quantify snag densities and structure in a recently burned forest	10.000					5,141
		Using Next Generation Fuels Data and Outcome-based Metrics in Fire Risk Assessments for High Value Resources in Sagebrush Ecosystems	10.000					24,072
		VAR-FED Hardwoods Silviculture Res	10.000					21,516
		VAR-FED Swiss Needle Cast Cooperatv	10.000					10,723
		VAR-FED Tree Improvement Research	10.000					20,000
		Vegetation Analysis Accounts for Forest Plan Revision	10.000					1,502
		Vegetation mapping and analysis to support all-lands forest management and shared stewardship in Region 3.	10.000					21,918
		Vegetation mapping and analysis to support all-lands forest management and shared stewardship in Region 4.	10.000				36,672	89,115
		Verde River Flows and Aquatic Invertebrates	10.000					54,762
		Watersheds Research Coop - Federal Cooperators	10.000					13,285
		Wildfire Risk Analytics into Land and Fire Management to Meet Resource Objectives	10.000					148,663
		Wildlife Services	10.028					130,878
		Willamette National Forest Lidar-assisted inventory	10.000					99,996
		Wood Utilization Assistance	10.674		Oregon Forest Resources Institute	20-1006		56,317
		Wood Utilization Assistance	10.674		U.S. Endowment for Forestry & Communities, Inc.	E17-25		(1)
		Wood Utilization Assistance	10.674		U.S. Endowment for Forestry & Communities, Inc.	20-00105		11
		Wood Utilization Assistance	10.674					311,623
		Woody Plants traits as predictors of resilience to environmental stress	10.000					1,716
		Working Group for Advancement of Cellulose Nano-materials Use in Cement Based Materials	10.000		U.S. Endowment for Forestry & Communities, Inc.	E18-12	62,502	65,093
		Yosemite Wilderness Project	10.000		Applied Trails Research LLC	2019_YOSE_OSU_001		1,417
	<i>Department of Agriculture Total</i>						<b>1,821,020</b>	<b>33,136,959</b>
<b>Department of Commerce</b>		Arrangements for Interdisciplinary Research Infrastructure	11.619		Colorado State University	G-00745-8		(481)
		Bipartisan Budget Act of 2018	11.022		University Corporation for Atmospheric Research	SUBAWD002380		221,441
		Carbon isotope work for cross-calibration and comparison of membrane-free in-situ underwater gas-analyzer	11.000		Opto-Knowledge Systems Inc	18120501		1,659
		CCA Proof of Concept Grant/OSU-Cascades ESE Department	11.000		VertueLab	CG-SOW-2018-BladeRunner Energy		0
		Center for Sponsored Coastal Ocean Research_Coastal Ocean Program	11.478		George Mason University	E2039521		52,433
		Center for Sponsored Coastal Ocean Research_Coastal Ocean Program	11.478		University of Maryland Center for Environmental Science	SA075258490 PO73557		15,320
		Center for Sponsored Coastal Ocean Research_Coastal Ocean Program	11.478				76,980	911,231
		Climate and Atmospheric Research	11.431		University Corporation for Atmospheric Research	SUBAWD001689		37,159
		Climate and Atmospheric Research	11.431		Woods Hole Oceanographic Institution	A101397		98,384
		Climate and Atmospheric Research	11.431				151,896	751,451
		Coastal Zone Management Administration Awards	11.419					33,473
		Coral Reef Conservation Program	11.482		National Fish and Wildlife Foundation	0810.20.068370		11,291
		Eelgrass Monitoring - OSU Graduate Student	11.000		Oregon Division of State Lands	20-519		(4)
		Eelgrass Monitoring OSU Graduate Student	11.000		Oregon Division of State Lands	20-520		9,719
		Fisheries Development and Utilization Research and Development Grants and Cooperative Agreements Program	11.427					84,276
		Geodetic Surveys and Services (Geodesy and Applications of the National Geodetic Reference System)	11.400		University of New Hampshire	17-035		47,460
		Glider-Based Acoustic Tracking of Salmon off Washington	11.000					(0)

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				Identification	Pass-Through Entity			
		Habitat Conservation	11.463					18,218
		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		84,150
		Integrated Ocean Observing System (IOOS)	11.012		Monterey Bay Aquarium Research Institute	1611121 - Y5 2020-2021		49,677
		Integrated Ocean Observing System (IOOS)	11.012		University of South Florida	2500-1773-00-A / P000001724		15,973
		Integrated Ocean Observing System (IOOS)	11.012		University of Washington	UWSC9206 / BPO 16539		1,265,375
		Living Marine Resources Cooperative Science Center	11.000		University of Maryland Eastern Shore	NA16SEC4810007 / Year 5		946
		Living Marine Resources Cooperative Science Center at OSU	11.000		University of Maryland Eastern Shore	NA16SEC4810007 / Year 1		(626)
		Living Marine Resources Cooperative Science Center at OSU	11.000		University of Maryland Eastern Shore	NA16SEC4810007 / Year 2		12,325
		Living Marine Resources Cooperative Science Center at OSU	11.000		University of Maryland Eastern Shore	NA16SEC4810007 / Year 4		89,128
		Living Marine Resources Cooperative Science Center at OSU	11.000		University of Maryland Eastern Shore	NA16SEC4810007-Year 3 / PO7449		55,342
		Marine Mammal Data Program	11.439					102,664
		Measurement and Engineering Research and Standards	11.609		Colorado State University	G-99042-05		76,780
		Measurement and Engineering Research and Standards	11.609		University of Alabama, Huntsville	2017-081		33,882
		Measurement and Engineering Research and Standards	11.609					86,359
		National Oceanic and Atmospheric Administration (NOAA) Cooperative Institutes	11.432		University of Maryland	83069-Z7554207		49,361
		National Oceanic and Atmospheric Administration (NOAA) Cooperative Institutes	11.432		University of New Hampshire	L0125		44,262
		National Oceanic and Atmospheric Administration (NOAA) Cooperative Institutes	11.432		University of Washington	UWSC12792/BPO 54900		11,999
		National Oceanic and Atmospheric Administration (NOAA) Cooperative Institutes	11.432				52,754	2,397,207
		Ocean Acidification Program (OAP)	11.017					41,350
		Ocean Acidification Program (OAP)	11.017		Virginia Institute of Marine Science	723087-712683		54,561
		Ocean Exploration	11.011				1,593	491,987
		Pacific Fisheries Data Program	11.437		Pacific States Marine Fisheries Commission	20-137G		25,975
		Pacific Northwest Blue Carbon Working Group Phase 2: Land use and environmental effects on greenhouse gas emissions and carbon sequestration, informing blue carbon project feasibility assessments for tidal wetland management	11.000		Institute for Applied Ecology	SUBK00014242		6,333
		Sea Grant Support	11.417				200,891	1,984,930
		Unallied Industry Projects	11.452					41,570
		Unallied Science Program	11.472		North Pacific Research Board	1801		50,207
		Unallied Science Program	11.472		North Pacific Research Board	1903A / 1903B		54,081
		Unallied Science Program	11.472		North Pacific Research Board	1906A/1906B/1906OSRI		71,139
		Unallied Science Program	11.472		North Pacific Research Board	1909A / 1909B		188,103
		Unallied Science Program	11.472		North Pacific Research Board	A93-01b		101,069
		Unallied Science Program	11.472		North Pacific Research Board	A93-01c		936
		Unallied Science Program	11.472		Pacific States Marine Fisheries Commission	20-40G	135,192	280,667
		Unallied Science Program	11.472					4,998
	Department of Commerce Total						<b>619,306</b>	<b>10,065,739</b>
	Department of Defense	2019 Master Time Charter Agreement - Oceanus ship time	12.000		NewFields Government Services LLC	2019-1278		7,196
		2020 Master Time Charter Agreement - Oceanus Ship Time	12.000		NewFields Government Services LLC	2021-1376		464,476
		3-D Antenna Technology Using Additive Manufacturing - Phase II	12.000		University of South Florida	2106-1300-00A / P000002201		1,122
		A Mechanistic Understanding of PFASs in Source Zones: Characterization and Control	12.000				236,579	348,278
		Additive Manufacturing of Inorganic Transparent Materials for Advanced Optics	12.000		Voxel, Inc	20-1284		2,524
		Adult Salmonids Trap and Transport Success Above Dams	12.000					124,477
		Air Force Defense Research Sciences Program	12.800		Southern University and A&M College	OSP-02-8300-2018-0011		5,384
		Air Force Defense Research Sciences Program	12.800		University of Texas at Austin	UTA16-001294		58,257
		Air Force Defense Research Sciences Program	12.800					467,996
		Argus Beach Monitoring System Report, City of San Clemente CA	12.000					40,035
		Assessing and Mitigating Bias in PFAS Levels during Ground and Surface Water Sampling	12.000				220,975	379,361
		Atmospheric Disturbance Classification and Estimation Using Novel Sensors and Sensor Data Fusion	12.000		The Boeing Company	PCN 2073912		2,544
		Autonomous Underwater Vehicle Passive Acoustic Monitoring of Beaked Whales in the Southern California Area	12.000		HDR One Company	1000300001180-CONFORMED		77,901
		Basic and Applied Scientific Research	12.300		Brigham Young University	16-0481		30,314
		Basic and Applied Scientific Research	12.300		University of St. Andrews	SMC7-XOBO19 / 13374		(4,193)
		Basic and Applied Scientific Research	12.300				583,529	4,862,683
		Basic Scientific Research	12.431		University of Minnesota - Twin Cities	A006982301		74,840
		Basic Scientific Research	12.431		University of Virginia	GG12239.PO#2210408		71,869
		Basic Scientific Research	12.431		Army	W911NF2110227		11,197
		Basic, Applied, and Advanced Research in Science and Engineering	12.630					46,420
		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		3,106
		Blue and Fin Whale Tagging In Support Of Marine Mammal Monitoring Across Multiple Navy Training Areas In Southern California SOCAL 2017	12.000		HDR One Company	1000300000861		2,559
		Characterization of the Nature and Extent of Per- and Polyfluoroalkyl Substance (PFASs) in Environmental Media at DoD Sites for Informed Decision Making	12.000					283
		Collaborative Research and Development	12.114		Towson University	23, PO# 7359, Project# 5040400		(8,515)

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				Identification	Pass-Through Entity			
		Collaborative Research and Development	12.114		Towson University	41, Project #5040389, PO#10049		54,885
		Collaborative Research and Development	12.114		Towson University	48-Project#5040403-PO#10768		57,749
		Command and Control of Aggregate Swarm Tactics (CCAST)	12.000		Raytheon SAS	LBN9513582/4202048554		223,050
		Competency-Aware Machine Learning (CAML)/ LucidState	12.000		BBN Technologies	4202133492		241,850
		Competency-Aware Reinforcement Learning through Introspection (CARLI)	12.000		SRI International	41729		204,004
		Comprehensive Forensic Approach for Source Allocation of Poly- and Perfluoroalkyl Substances	12.000		Colorado School of Mines	401867-5802		83,102
		Data-driven uncertainty reduction during nearshore events	12.000					54,381
		Detection and identification of environmental DNA from beaked whales on the Navy Atlantic Undersea Test and Evaluation Center (AUTEC) range using droplet digital PRC	12.000				14,000	15,350
		Development of Genomics and Behavioral Assays for Understanding Neurotoxicity of Chemicals and Effects on Performance	12.000					25,525
		Development of Slow Release Compounds for the Aerobic Cometabolic Treatment of Complex Mixtures of COC Released from Low Permeability Zones	12.000				7	75,316
		Development, Evaluation, and Technology Transfer of BMPs for Optimizing Removal of PAHs, PCBs, PFASs, and Metals from Stormwater at DoD Sites	12.000					354,003
		DLA 2017 phase 2 scaling	12.000		OnTo Technology LLC	2019		15,705
		Evaluation of a Naval Shipyard Cleanup Project	12.000		CH2M Hill, Inc	10006-7-107098		4,596
		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		18,307
		Examining the influence of salient visual cues on collective behavior in human crowds	12.000					17,108
		Flow-population models for tracking non-stationary changes in riparian and aquatic ecosystems	12.000					(531)
		Guaranteeing AI Robustness against Deception (GARD)	12.000		SRI International	P044618		182,060
		Humpback Whale Tagging In Support Of Marine Mammal Monitoring Across Multiple Navy Training Areas In Pacific Ocean	12.000					238,208
		Hybrid Femtocell-Attocell Dynamic Free-space Optical System (FADFOS) for High Speed Undersea Platform Communication	12.000		E-Lambda LLC	2019-1485		22,123
		Ignition, Propagation, and Emissions of Smoldering Combustion: Experimental Analysis and Physics Based Modeling	12.000					255,788
		Incorporating Photoperiodism in Insect Phenology Models with Application for Biological Control of Weeds on Department of Defense Lands	12.000					59,332
		Insights into the Long-Term Mass Discharge & Transformation of AFFF in the Unsaturated Zone	12.000		CDM Federal Programs Corporation	6500-001-004-CS		93,137
		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		(0)
		Leveraging Symbolic Representations for Safe & Assured Learning (Assure)	12.000		Galois Inc.	2019-011		181,206
		Live Fuels: Identification of Key Processes Controlling Ignition and Fuel Consumption	12.000					278,847
		Low Loss Ducted Inlet	12.000		Universal Technology Corporation	142411-16F2639-20-53-C4		3,948
		Mathematical Sciences Grants Program	12.901					(1)
		Military Medical Research and Development	12.420				(1,504)	275,624
		Military Medical Research and Development	12.420		Sanford Burnham Prebys Medical Discovery Institute	69867-13288-OSU		84,464
		Munition Mobility in Mixed Grain (Sand, Gravel, Cobble) Environments	12.000					37,911
		N-1290-19; In-situ Biodegradation of 1,4-Dioxane and Chlorinated Solvent Mixtures in Dilute Plumes	12.000					44,599
		NAVFAC Inspection	12.000		University of Washington	UWSC10469 / BPO31365		125,031
		NEARSHORE MONITORING DATA COLLECTION WITH ARGUS BEACH MONITORING SYSTEM	12.000					71,321
		PacWave North: Microgrid Demonstrations in a Fully Energetic Open-Coastal Setting	12.000		University of Washington	UWSC11130/BPO 39672		563,425
		PFAS Compounds in Packing Materials used to Assemble MREs	12.000					198,418
		Quantifying and Communicating Uncertainty of Beach -Dune Evolution Models: The Development of an Event- to Interannual- to Decadal-Scale Model Testbed	12.000					44,968
		QUANTIFYING DYNAMICS OF, AND OPPORTUNITY FOR, MICRO-SCALE WAVE ENERGY CONVERSION	12.000		University of Washington	UWSC11389/BPO43021		74,276
		Real-time Imaging for Surf Zone Mapping	12.000		Innovative Imaging and Research	2020-02		30,664
		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		47,247
		Research and Technology Development	12.910		Carnegie Mellon University	1190050-405770		204,109
		Research and Technology Development	12.910		Columbia University	1(GG014532-01)		131,627
		Research and Technology Development	12.910		University of California, Los Angeles	1015 G UAA93		117,500
		Research and Technology Development	12.910		US Department of the Interior	D18AP00063	1,560	72,463
		Research and Technology Development	12.910				1,108,510	3,866,083
		Resident Undersea Autonomy - Task 1	12.000		University of Washington	UWSC12016-BPO49406		297,121
		Resident Undersea Autonomy - Task 2	12.000		University of Washington	UWSC12017-BPO49408		570,689
		Resilient Emergent Properties of Autonomous Agent Interactions (REPAIR)	12.000		Smart Information Flow Technologies	REPAIR-PH2-OSU-01		162,280
		San Clemente Argus Station OutYear Maintenance and Ops	12.000					2,181
		Scientific Research - Combating Weapons of Mass Destruction	12.351				112,714	271,291
		Secure Multi-Party Computation for HECTOR	12.000		International Business Machines Corp.	CW3002470		34,930
		Simulation of Multiphase Interactions in Reactive Structural Materials	12.000		Wasatch Molecular, Inc.	2018-1025		7,530

Cluster	Federal Grantor	Program Title	AL Number	Additional Award		Pass-Through Identifying Number	Passed through to	
				Identification	Pass-Through Entity		Subrecipients	Total Expenditures
		SYMBIANT: Exploiting the slow/fast framing of the mind for robust behavior in open worlds	12.000		Raytheon SAS	4202182976		446,546
		Teammate aware autonomy	12.000		Scientific Systems Company Inc	SC-1656-02		21,795
		Techniques and Tools for De-Bloating Containers	12.000		University of Wisconsin - Madison	785K864		112,580
		Transparent Management of Hub-Based Colonies Using a Graph-Based Dynamic Model	12.000		Brigham Young University	20-0599		49,668
		Use of Artificial Intelligence (Joint Optimization) to Accelerate Development of New Energetic Materials	12.000		Imagars LLC	12.000		15,000
		UUV Technology for Inexpensive PAM - Phase I	12.000		Triton Systems Inc	TSI-2662-20-20201706		24,321
	<i>Department of Defense Total</i>						<b>2,276,370</b>	<b>17,834,822</b>
<b>Department of Education</b>		Education Research, Development and Dissemination	84.305		Yale University	GR103267 (CON-80001285)		16,801
		Education Research, Development and Dissemination	84.305					225,810
		Education Research, Development and Dissemination	84.305		WestEd	S-00017682		106,231
		English Language Acquisition State Grants	84.365				61,997	606,723
		MAAPS: Monitoring Advising Analytics to Promote Student Success	84.000		Georgia State University Research Foundation Inc	SP00012139-08		(3,623)
		Overseas Programs - Doctoral Dissertation Research Abroad	84.022					2,928
		Special Education - Personnel Development to Improve Services and Results for Children with Disabilities	84.325		East Carolina University	AWD-20-0512-S005		132,221
		Special Education - Personnel Development to Improve Services and Results for Children with Disabilities	84.325					32,627
	<i>Department of Education Total</i>						<b>94,624</b>	<b>1,498,649</b>
<b>Department of Energy</b>		A Systems Biology Approach to Interactions and Resource Allocation in Bioenergy-Relevant Microbial Communities: Investigation of coordinated metabolic responses to metal stress	81.000		Lawrence Livermore National Laboratory	B644462		19,140
		Accelerating the Experimental Mission of VTR Through an Ex-Pile Operational Program	81.000		Idaho National Laboratory	145660-00034	97,989	439,559
		Advanced Research Projects Agency - Energy	81.135				506,574	1,368,697
		Advanced Research Projects Agency - Energy	81.135		Gas Technology Institute	S618		(1,461)
		AmeriFlux Management Project Core Site - Metolius Pine	81.000		Lawrence Berkeley National Lab	7542255		169,019
		Application of Nonlinear Elimination to Implicit Monte Carlo Solutions of Thermal Radiation Transport	81.000		Lawrence Livermore National Laboratory	B637358		12,183
		Automating Data Preparation for ORIGEN Calculations of ATR Target Irradiations	81.000		Idaho National Laboratory	145660-43		45,943
		Autonomous Monitoring of Geologic Repositories	81.000		DOE Pacific Northwest National Lab	445770-503736		78,840
		Avian Predation on Juvenile Salmonids in the Lower Columbia River	81.000				365,897	532,196
		Avian Predation on Juvenile Salmonids in the Lower Columbia River, 2021	81.000				130,017	177,263
		Center for Next Generation Materials by Design (OSU)	81.000		DOE National Renewable Energy Lab	XGJ-9-92313-01		10,074
		Conservation Research and Development	81.086		OnTo Technology LLC	2018-1735		6,122
		Conservation Research and Development	81.086				140,503	294,887
		Control-informed WEC performance optimization	81.000		Sandia National Laboratories	1957986		13,281
		Controlled-Source Electromagnetic (CSEM) for Geohazard Identification	81.000		Leidos Inc	P010225898 TO #2		98,962
		Create Digital Twin to Support Energy Efficiency Integration in Permanent Modular Construction	81.000		DOE National Renewable Energy Lab	SUB-2020-10207		176,793
		Defense Nuclear Nonproliferation Research	81.113		University of Michigan	3003608372 (3003222385)		82,400
		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		33,521
		Design and Experimental Characterization of a LOCA Capsule for Transient Testing	81.000		Idaho National Laboratory	145660-00026		58,711
		Development and Implementation of a New Ocean Surface Boundary Layer Parameterization in the Energy Exascale Earth System model (E3SM)	81.000		Lawrence Livermore National Laboratory	B645995		18,277
		Distinguished Graduate Research Program	81.000		DOE Pacific Northwest National Lab	445770-482917		32,096
		Distinguished Graduate Research Program - Barton Gattis	81.000		Battelle Pacific Northwest Laboratory	445770-537076		26,163
		Electricity Delivery and Energy Reliability, Research, Development and Analysis	81.122		Schweitzer Engineering Laboratories Inc	SEL-138-2019		201,147
		Electricity Delivery and Energy Reliability, Research, Development and Analysis	81.122		University of Illinois, Urbana-Champaign	078620-15702 (2015-06605-07)		70,355
		Electricity Delivery and Energy Reliability, Research, Development and Analysis	81.122		University of Illinois, Urbana-Champaign	078620-17941		58,419
		Energy Efficiency and Renewable Energy Information Dissemination, Outreach, Training and Technical Analysis/Assistance	81.117		Washington State University	131648 G004267		9,154
		Environmental Remediation and Waste Processing and Disposal	81.104		Vanderbilt University	UNIV59366 (formerly 19067-2)		199,109
		Evaluate Reproductive Success of hatchery-origin and wild origin Steelhead in Hood River'	81.000					98,914
		Evolution of thermal conductivity in irradiated lithium aluminate	81.000		DOE Pacific Northwest National Lab	378025		80,969
		EXP OCEAN SURVIVAL OF SALMONIDS	81.000					285,877
		Exp Ocean Survival of Salmonids	81.000					(0)
		Feed to Flightstock Tool (F2FT)	81.000		Lawrence Berkeley National Lab	7449593		81,194
		Fossil Energy Research and Development	81.089		University of Texas at Austin	UTA17-000274		18,553
		Fossil Energy Research and Development	81.089					12,607
		FOSWEC Digital Twin	81.000		Sandia National Laboratories	2218113		39,877
		Further Security Enhancements for the Oregon State TRIGA® Reactor	81.000		Sandia National Laboratories	PO 1276073		(189)
		Gamma-ray spectroscopy of beta delayed fission products	81.000		Lawrence Livermore National Laboratory	B636419		93,967
		Grand Challenge LDRD	81.000		Sandia National Laboratories	PO# 2214652		94,664
		Growth of Epitaxial Thin Film for Battery Research	81.000		Stanford University	202530		28,774
		High Head Study Bypass Fish Passage Investigations: Year Two study	81.000		DOE Pacific Northwest National Lab	445770-535234		36,494
		HTTF Testing 2016	81.000		Idaho National Laboratory	00145660-014		2,736

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				Identification	Pass-Through Entity			
		Hydro-Mechanical Flow Testing - Standby Contract	81.000		Idaho National Laboratory	145660-00028		212,205
		Improved Co-located Energy Storage for Wave Energy Converters	81.000		Oscilla Power Inc	DE-FOA-0002156		20,247
		In Situ Mechanical and Corrosion Testing	81.000		Idaho National Laboratory	145660-00025		406,613
		Industrial Engineering Support for Low-Enriched Uranium Fuel Fabrication Process Flow	81.000		DOE Pacific Northwest National Lab	445770-549172		70,543
		Industrial Engineering Support for Low-Enriched Uranium Fuel Fabrication Process Flow - Phase 2 (Supplement 2019)	81.000		DOE Pacific Northwest National Lab	445770-446280		(1,127)
		Industrial Engineering Support for Low-Enriched Uranium Fuel Fabrication Process Flow - Phase 2 (Supplement CY2020)	81.000		DOE Pacific Northwest National Lab	445770-506660		165,710
		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		96,515
		InSPIRE 2.0: Dryland Agriculture and Solar Co-Location	81.000		DOE National Renewable Energy Lab	XHR-9-92172-01		48,703
		Integration of radical scavengers inside nanoporous carbon-based catalysts	81.000		DOE Pacific Northwest National Lab	445770-478185		55,518
		INVESTIGATION OF COMPACT REMOTE-TRIGGERED CAPSULE BLOWDOWN VALVE	81.000		Idaho National Laboratory	145660-0038		22,078
		Leidos NETL Task 4: Constraining Kick Signals through Advanced Multi-Phase Data	81.000		Leidos Inc	P010225898 TO 4		63,439
		Machine Learning for Nuclear Data, Criticality Safety and Non-Proliferation Applications	81.000		Los Alamos National Laboratory	511502-513577		95,862
		Management of Ameriflux Network Project	81.000		Lawrence Berkeley National Lab	7117975		70,638
		Measurements of Cosmic Ray Background Radiation at the DOE Underground Research Lab	81.000		DOE Oak Ridge National Laboratory	4000181782		16,499
		MHK Seedling Project	81.000		DOE Pacific Northwest National Lab	445770-539645		3,117
		Mini-DAQ for Wave Energy Conversion	81.000		Sandia National Laboratories	1985756		9,077
		Model Validation and Site Characterization for Early Deployment Marine Hydrokinetic (MHK) Sites and Establishment of Wave Classification Scheme - Proof of Concept of a Remotely Operated Rigid Hull Inflatable Boat for Tidal and River Current Resource Char	81.000		DOE National Renewable Energy Lab	SUB-2021-10509		1,002
		Multivalent Battery Cathode Stability and Characterization	81.000		Argonne National Laboratory	9F-60223		51,317
		Narrows Code Project (LEARN 2020)	81.000		Lawrence Livermore National Laboratory	B640565		76,685
		NATIONAL UNIVERSITY CONSORTIUM TRAVEL SUPPORT	81.000		Idaho National Laboratory	145660-00019		176,310
		Nuclear Energy Research, Development and Demonstration	81.121		University of California Berkeley	BB01185638-00009946		(177)
		Nuclear Energy Research, Development and Demonstration	81.121		University of Idaho	EH3005-SB-762925		112,347
		Nuclear Energy Research, Development and Demonstration	81.121		University of New Mexico	327074-874U		75,493
		Nuclear Energy Research, Development and Demonstration	81.121		University of Wisconsin - Madison	775K552 / DE-NE0008714		108,154
		Nuclear Energy Research, Development and Demonstration	81.121				310,936	828,986
		Ocean Survival Of Salmonids	81.000					187,490
		Office of Science Financial Assistance Program	81.049		Pennsylvania State University	S000311-DOE		88,689
		Office of Science Financial Assistance Program	81.049		Stanford University	62216029-148997		24,154
		Office of Science Financial Assistance Program	81.049		University of Colorado Boulder	1559976 / PO#1001426898		25,333
		Office of Science Financial Assistance Program	81.049		University of Washington	UWSC12419 / BPO56704		13,442
		Office of Science Financial Assistance Program	81.049					675,576
		OSU Undergraduate/Graduate Safeguards Design Project	81.000		DOE Pacific Northwest National Lab	445770-552099		10,845
		Physiological Basis of Metamerism - Phase 1	81.000		DOE Pacific Northwest National Lab	445770-490503		34,263
		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		0
		PNNL - Boiteau Joint Appointment Agreement FY19	81.000		DOE Pacific Northwest National Lab	445770-448636		13,826
		POPLAR TRANSGENICS	81.000		DOE Oak Ridge National Laboratory	4000174948		27,067
		Populus trichocarpa foliar microbiome greenhouse experiments	81.000		DOE Oak Ridge National Laboratory	4000183093		23,058
		Predicting permafrost stability in Alaskan landscapes susceptible to freeze-thaw cycles	81.000		DOE Pacific Northwest National Lab	445770-490171		31,766
		Predictive Science Academic Alliance Program	81.124				126,131	425,357
		Preparation of targets for Los Alamos National Laboratory	81.000		Los Alamos National Laboratory	541384		96,420
		Preparation of targets for the Fission TPC for the 2020 and 2021 run cycles at LANL	81.000		Lawrence Livermore National Laboratory	B642773		58
		Pump Commissioning Flow Tests - a Naval Reactor Experimental Loops in ATR	81.000		Idaho National Laboratory	145660-00017		706,748
		QUANTIFICATION OF RISK AND VALUATION OF FLEXIBILITY IN THE FCRPS	81.000		University of Houston	R-17-0015		(1,774)
		Renewable Energy Research and Development	81.087		American Institute of Chemical Engineers	DE-EE000788-08.6		232,825
		Renewable Energy Research and Development	81.087		American Institute of Chemical Engineers	DE-EE0007888-08.4		58,308
		Renewable Energy Research and Development	81.087		American Institute of Chemical Engineers	DE-EE0007888-10.9a		69,445
		Renewable Energy Research and Development	81.087		American Institute of Chemical Engineers	DE-EE007888-10.4		452,898
		Renewable Energy Research and Development	81.087		American Institute of Chemical Engineers	RAPID Project Management		94,077
		Renewable Energy Research and Development	81.087		Arizona State University	ASUB00000540		70,755
		Renewable Energy Research and Development	81.087		Michigan State University	RC111121-OSU		123,572
		Renewable Energy Research and Development	81.087		University of Washington	UWSC11791 / BPO47430		328,356
		Renewable Energy Research and Development	81.087				446,773	4,922,841
		Renewing Wave Energy Testing for Maritime Markets at PacWave North	81.000		DOE National Renewable Energy Lab	XEJ-9-92109-01		227,512
		Resource characteristics at early market Marine and Hydrokinetic (MHK) sites	81.000		DOE National Renewable Energy Lab	AGZ-9-92287-01		4,246
		Septoria gene drive project	81.000		DOE Oak Ridge National Laboratory	4000178229		71,566
		Soft Robotics and Sensor Development for Nuclear Safeguards	81.000		Idaho National Laboratory	145660-00040		121,595
		Solid State NMR Calculations using First Principles Methods Density Functional	81.000		Argonne National Laboratory	0F-60052		55,834
		Statistical Support for the United States High Performance Research Reactor Project	81.000		DOE Pacific Northwest National Lab	445770-555650		19,720
		Stewardship Science Grant Program	81.112		University of Notre Dame	2031860SU		180,125
		Stewardship Science Grant Program	81.112					105,515
		Stoerzinger Joint Appointment Agreement	81.000		DOE Pacific Northwest National Lab	445770-448609		36,819
		Support for PNNL Pele Project	81.000		DOE Pacific Northwest National Lab	445770-562151		6,885



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				Identification	Pass-Through Entity			
		Supporting Flash Neutron Radiography and Flow Visualization Experiments	81.000		Idaho National Laboratory	145660-0037		36,819
		TASK ORDER #OSU_1: Dehlsen (Brekken - WESRF), UofH (Lomonaco - Hinsdale)	81.000		Pacific Ocean Energy Trust	OSU-1-UofH,-Dehlsen		139,078
		Task: Infection of juvenile Chinook salmon by a parasitic copepod, <i>Salmincola californiensis</i>	81.000		DOE Pacific Northwest National Lab	445770-490752		347
		TPC Target Making	81.000		Lawrence Livermore National Laboratory	B630762		(32,940)
		TREAT HENRI-PROTOTYPE TESTING AND SYSTEM MODELING OF THE HELIUM NEGATIVE REACTIVITY INSERTION (HENRI) SYSTEM	81.000		Idaho National Laboratory	145660-0036		115,895
		Tuning the Molecular Interactions with Xenon using Metal Organic Frameworks	81.000		DOE Pacific Northwest National Lab	445770-489084		93,508
		VTR Strategic Initiatives	81.000		University of Pittsburgh	0062228-1		(1)
		WEC Control Constraint Handling via Model Predictive Control	81.000		Sandia National Laboratories	PO#2206686		20,227
	Department of Energy Total						2,124,820	17,829,185
	Department of Health and Human Services	Advancing Sharing of Phenotypic Information through Fast Healthcare Interoperability Resources (FHIR)	93.000		Broad Institute	5000821-5500001375		60,610
		Aging Research	93.866		Boston University	4500003722/4500003308		41,674
		Aging Research	93.866				170,866	1,145,378
		Alcohol Research Programs	93.273				70,363	328,355
		Allergy and Infectious Diseases Research	93.855		Aradigm Corporation	2018-45		(44,297)
		Allergy and Infectious Diseases Research	93.855		Henry M Jackson Foundation	4744 / PO 972214		132,711
		Allergy and Infectious Diseases Research	93.855		Henry M Jackson Foundation	4745 / PO 972216		163,889
		Allergy and Infectious Diseases Research	93.855		Mount Sinai School of Medicine	0255-A131/A132/A133/A134-4609		85,757
		Allergy and Infectious Diseases Research	93.855		Najit Technologies Inc	2017-1066		(12,243)
		Allergy and Infectious Diseases Research	93.855		University of California, Irvine	2020-1295		53,998
		Allergy and Infectious Diseases Research	93.855		University of Washington	UWSC9071 / BPO 15471		97,116
		Allergy and Infectious Diseases Research	93.855		Western University of Health Sciences	20150-Steinauer-OSU		28,429
		Allergy and Infectious Diseases Research	93.855				28,830	1,790,615
		Allergy and Infectious Diseases Research	93.855		University of Massachusetts Medical School	OSP35019-00/POWA01097032		15,940
		Arthritis, Musculoskeletal and Skin Diseases Research	93.846					27,190
		Assistance Programs for Chronic Disease Prevention and Control	93.945		Oregon Health Authority	158380		18,721
		Biomedical Research and Research Training	93.859		University of Georgia	SUB00002035		73,517
		Biomedical Research and Research Training	93.859		University of Georgia	SUB00002121/ #26681		2,365
		Biomedical Research and Research Training	93.859		University of Michigan	SUBK0010345/ PO#3005760129		35,762
		Biomedical Research and Research Training	93.859		University of Nebraska	34-5360-2076-001		101,865
		Biomedical Research and Research Training	93.859		University of Oregon	215030A		(12,614)
		Biomedical Research and Research Training	93.859		University of Pittsburgh	AWD0003094 (135236-1)		45,751
		Biomedical Research and Research Training	93.859		Wake Forest University	100100-550010		76,740
		Biomedical Research and Research Training	93.859				279,046	2,150,021
		Cancer Cause and Prevention Research	93.393		Kaiser Foundation Hospitals	NW83982		144,542
		Cancer Detection and Diagnosis Research	93.394				186,115	547,244
		Cancer Treatment Research	93.395		Pacific University	PU-OSU-01-2019-00		65,762
		Cancer Treatment Research	93.395				124,665	372,146
		Cardiovascular Diseases Research	93.837		Ossium Health	2R44HL42418-02		22,032
		Cardiovascular Diseases Research	93.837		University of Illinois, Chicago	16912		6,531
		Cardiovascular Diseases Research	93.837		Harvard Pilgrim Health Care Inc	AH000766		109,267
		Cardiovascular Diseases Research	93.837		Children's Hospital of Philadelphia	GRT-00000659/PO#20231804		23,881
		Center for Cancer Data Harmonization	93.000		Leidos Biomedical Research	19X077Q HHSN261201500003I	1,102,656	1,506,467
		Centers for Research and Demonstration for Health Promotion and Disease Prevention	93.135					(0)
		Child Health and Human Development Extramural Research	93.865		Montana State University	G250-21-W8694		6,535
		Child Health and Human Development Extramural Research	93.865		Oregon Health & Science University	1013518_OSU		92,532
		Child Health and Human Development Extramural Research	93.865		Oregon Health & Science University	1016127_OSU		71,632
		Child Health and Human Development Extramural Research	93.865		Wake Forest University	455-102300-112761		14,073
		Child Health and Human Development Extramural Research	93.865				8,018	508,101
		CHW Common Indicator Project (CI Project)	93.000		Community Health and Social Services Center Inc	20-2124		16,309
		Development of NHSN's AUR data and SAAR to support Antibiotic Benchmarking Program among Vizient Members	93.000		Virginia Commonwealth University	FP00004348_SA001		(3,547)
		Diabetes, Digestive, and Kidney Diseases Extramural Research	93.847		Oregon Health & Science University	1013984_OSU		34,795
		Diabetes, Digestive, and Kidney Diseases Extramural Research	93.847					250,541
		Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286		Georgia Regents University	33585-1		21,242
		Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286		Oregon Health & Science University	1008659_OSU		(6,158)
		Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286					416,006
		Drug Abuse and Addiction Research Programs	93.279		Boston University	BMC ID 6702 / PO 11524101		(340)
		Drug Abuse and Addiction Research Programs	93.279		Oregon Health & Science University	1011286_OSU		26,397
		Drug Abuse and Addiction Research Programs	93.279		Oregon Health & Science University	1012350_OSU		(3,795)
		Drug Abuse and Addiction Research Programs	93.279		Oregon Health & Science University	1012803_OSU		38,795
		Drug Abuse and Addiction Research Programs	93.279		Second Genome	2019-2155		211,337
		Drug Abuse and Addiction Research Programs	93.279		University of California at San Francisco	10961sc / CTN-0086		(2,165)
		Drug Abuse and Addiction Research Programs	93.279					40,985
		Drug Abuse and Addiction Research Programs	93.279		Brandeis University	GR403953_OSU		168,435
		Environmental Health	93.113		North Carolina State University	2019-0378-01		9,732

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				Identification	Pass-Through Entity				
		Environmental Health	93.113		University of California at San Francisco	10473sc		54,258	
		Environmental Health	93.113		University of California, Irvine	2019-3784		33,809	
		Environmental Health	93.113		Wake Forest University	215-102510-550032		60,454	
		Environmental Health	93.113				345,236	4,688,843	
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323		Oregon Health Authority	149324		5,117	
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323		Oregon Health Authority	156294		0	
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323		Oregon Health Authority	157282		(378)	
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323		Oregon Health Authority	160782		11,824	
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323		Oregon Health Authority	163700		18,174	
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323		Oregon Health Authority	165122-0		262,035	
		Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853				18,774	272,932	
		Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853		Dartmouth-Hitchcock Clinic	GC10418-02-DGR15362		14,236	
		Family Smoking Prevention and Tobacco Control Act Regulatory Research	93.077		The Ohio State University	GR121521		22,359	
		Food and Drug Administration_Research	93.103					172,698	
		Human Genome Research	93.172				824,079	1,179,529	
		Injury Prevention and Control Research and State and Community Based Programs	93.136		Oregon Health & Science University	1013842_OSU		103,584	
		Inter-laboratory Study of the Effects of Protocol Variables on Toxicity Measures in Zebrafish	93.000		Battelle Memorial Institute	US 001-0000751237		196,934	
		Lung Diseases Research	93.838				193,565	696,056	
		Mental Health Research Grants	93.242		Portland State University	100107		24,371	
		Mental Health Research Grants	93.242					42,712	
		National Center for Advancing Translational Sciences	93.350		Oregon Health & Science University	1010312_OSU		(3,271)	
		National Center for Advancing Translational Sciences	93.350		Oregon Health & Science University	1010312_OSU_Newsom		(2,410)	
		National Center for Advancing Translational Sciences	93.350		Oregon Health & Science University	1011902_OSU		22,286	
		National Center for Advancing Translational Sciences	93.350		Oregon Health & Science University	1011902-001_OSU		116,909	
		National Center for Advancing Translational Sciences	93.350		Oregon Health & Science University	1011902-002_OSU		39,124	
		National Center for Advancing Translational Sciences	93.350		Oregon Health & Science University	1011902-003_OSU		197,604	
		National Center for Advancing Translational Sciences	93.350				1,174,147	1,894,204	
		National Center for Advancing Translational Sciences	93.350		Initos Pharmaceuticals LLC	2020-R44TR002692		9,834	
		NIH Superfund Hazardous Substances_Basic Research and Education	93.143				49,550	3,307,240	
		NIH Data Commons Pilot Phase	93.000		University of North Carolina, Chapel Hill	5109149		(0)	
		Occupational Safety and Health Program	93.262		New York Center for Agricultural Medicine and Health	1 U01OH011899-01-00		24,283	
		Occupational Safety and Health Program	93.262		University of Washington	UWSC11696 / BPO #49399		2,502	
		Occupational Safety and Health Program	93.262		University of Washington	UWSC9328 / BPO 17849		184,740	
		Occupational Safety and Health Program	93.262		University of Washington	UWSC11698 / BPO 45005		27,444	
		Occupational Safety and Health Program	93.262				82,686	266,792	
		Occupational Safety and Health Program	93.262		Center for Construction Research and Training	U60 OH009762		19,029	
		Occupational Safety and Health Program	93.262		Center for Construction Research and Training	20-5-PS		17,723	
		Opioid STR	93.788					314,659	
		Oral Diseases and Disorders Research	93.121		Oregon Health & Science University	1013028_OSU		(2,107)	
		Oral Diseases and Disorders Research	93.121		Oregon Health & Science University	1016489_OSU		124,042	
		Oral Diseases and Disorders Research	93.121				111,997	432,333	
		Research and Training in Complementary and Integrative Health	93.213		Oregon Health & Science University	1003333_OSU		(45,802)	
		Research and Training in Complementary and Integrative Health	93.213		Oregon Health & Science University	1010982_OSU		7,386	
		Research and Training in Complementary and Integrative Health	93.213		Oregon Health & Science University	1016338_OSU		238,808	
		Research and Training in Complementary and Integrative Health	93.213		University of Illinois, Chicago	16883		119,462	
		Research and Training in Complementary and Integrative Health	93.213				269,587	975,976	
		Research Infrastructure Programs	93.351		Oregon Health & Science University	1014589_OSU		98,662	
		Research Infrastructure Programs	93.351		Purdue University	4102-86206 / 11000451-010		630	
		Research Infrastructure Programs	93.351		University of Oregon	217090A		9,634	
		Research Infrastructure Programs	93.351				435,204	1,439,093	
		Research on Healthcare Costs, Quality and Outcomes	93.226		University of Pittsburgh	AWD00002325(134464-2)		15,537	
		Research on Healthcare Costs, Quality and Outcomes	93.226		University of Wisconsin - Madison	0000001013		32,914	
		Research on Healthcare Costs, Quality and Outcomes	93.226				139,424	487,938	
		Research Related to Deafness and Communication Disorders	93.173					411,106	
		Socioeconomic status and breast cancer by age group and race/ethnicity	93.000		Oregon Health & Science University	1018947_OSU		186	
		Sodium Reduction in Communities	93.082		Oregon Health Authority	153667		116,588	
		Strengthening Public Health Systems and Services through National Partnerships to Improve and							
		Protect the Nation's Health	93.421		Community Health and Social Services Center Inc	21-1113		14,337	
		Trans-NIH Research Support	93.310		Columbia University	1(GG013062-03)		22,365	
		Trans-NIH Research Support	93.310		Duke University	A03-2331		6,968	
		Trans-NIH Research Support	93.310					44,365	
		Vision Research	93.867		Universal Adherence LLC	2018-2480		6,743	
		Vision Research	93.867				29,805	287,300	
		Welfare Reform Research, Evaluations and National Studies	93.595					73,220	
<b>Department of Health and Human Services Total</b>								<b>5,644,612</b>	<b>30,332,481</b>

Cluster	Federal Grantor	Program Title	AL Number	Additional Award		Pass-Through Identifying Number	Passed through to	
				Identification	Pass-Through Entity		Subrecipients	Total Expenditures
	Department of Homeland Security	Assistance to Firefighters Grant	97.044				311,972	475,505
		Centers for Homeland Security	97.061		University of North Carolina, Chapel Hill	5101654		119,096
		OCCRI Climate Change Assistance with the 2020 Oregon NHMP Update	97.000		Oregon Dept of Land Conservation & Development	19040		23,851
	Department of Homeland Security Total						<b>311,972</b>	<b>618,452</b>
	Department of the Interior	2021 Morphological Change Analysis MCR Open Coast Beach Data Collection, Analysis, and Archiving	15.000		Washington Department of Ecology	C2100072		13,334
		Alaska Coastal Marine Institute	15.421		University of Alaska - Fairbanks	UAF 20-0057 / P0540546		25,031
		An evaluation of sublethal and latent pyrethroid toxicity across a salinity gradient in two Delta fish species	15.000		Delta Stewardship Council	18206	154,691	257,794
		Assistance to State Water Resources Research Institutes	15.805					86,147
		B-08 Terrestrial AIM Training Assistance in 2021.	15.000					31,778
		BLM National Operations Data Center - GIS/Data Specialist	15.000					45,156
		BLM Wildland Urban Interface Community Fire Assistance	15.228					105
		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		92,733
		Bureau of Ocean Energy Management (BOEM) Environmental Studies (ES)	15.423		San Diego State University Foundation	SA0000494		36,965
		Bureau of Ocean Energy Management (BOEM) Environmental Studies (ES)	15.423				1,647	44,747
		Continued Computer Support for High Resolution Regional Climate Data	15.000					1,660
		Cooperative Ecosystem Studies Units	15.678					251,785
		Cooperative Research and Training Programs Resources of the National Park System	15.945					728,771
		Cooperative Research Units	15.812					1,948,163
		Earthquake Hazards Program Assistance	15.807					65,379
		Endangered Species Conservation Recovery Implementation Funds	15.657					29,958
		Fish and Wildlife Coordination and Assistance	15.664					(1,096)
		Fish, Wildlife and Plant Conservation Resource Management	15.231					243,361
		Fisheries and Aquatic Resources Management	15.244					40,632
		Gulf of Mexico Passive Acoustic Monitoring Program	15.000		HDR One Company	1000300001059		26,234
		Interactive Effects of Predators, Habitat, and Livestock Presence on Sage-grouse Demography and Seasonal Habitat Use in Wyoming	15.000					66,413
		Migratory Bird Monitoring, Assessment and Conservation	15.655		High Desert Partnership	2018-3063		8,240
		Migratory Bird Monitoring, Assessment and Conservation	15.655					8,206
		Multistate Conservation Grant	15.628		North Carolina State University	2019-2037-04		4,892
		National Climate Change and Wildlife Science Center	15.820		University of Washington	UWSC11700 BPO46346/47/48/51etc		163,621
		National Land Remote Sensing_Education Outreach and Research	15.815		AmericaView	AV18-OR-01		13,058
		Natural Resource Damage Assessment, Restoration and Implementation	15.658					27,619
		OR - Population Assessment of Western Oregon Sooty Grouse 2020-2022	15.000		Oregon Dept of Fish & Wildlife	057-20		100,159
		Partners for Fish and Wildlife	15.631					5,624
		Partnership for recovery of Hawaiian Common Gallinule	15.000		Ducks Unlimited	US-WA-122-11		6,000
		Plant Conservation and Restoration Management	15.245					19,222
		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				273,133	273,133
		PN-16: PNW Terrestrial AIM Vegetation Sampling for BLM in OR and WA, 2020 and 2021 field seasons.	15.000					446,701
		PN-22 NW Terrestrial AIM Vegetation Sampling for BLM for the Redding California BLM District in 2022 and 2023.	15.000				58,091	64,591
		PN-23: PNW Terrestrial AIM Vegetation Sampling for BLM in CA on the Ridgecrest District in 2021.	15.000					3,205
		PN-25: PNW Terrestrial AIM Vegetation Sampling for BLM in OR and WA, 2021 and 2022 field seasons.	15.000					212,758
		PN-26: PNW Terrestrial AIM Vegetation Sampling for BLM for Idaho in 2021, with options for 2022 and 2023.	15.000				82,043	88,543
		PN-30: PNW Terrestrial AIM Vegetation Sampling for BLM in NV on the Winnemucca District in 2021.	15.000					45,717
		PN-33: PNW Terrestrial AIM Vegetation Sampling for BLM for Idaho in 2021, with options for 2022, 2023, and 2024.	15.000				496,306	502,806
		PN-36: PNW Terrestrial AIM Vegetation Sampling for BLM on the Black Rock Resource Area of the Winnemucca District in Nevada for the 2021 and 2022 field seasons.	15.000					27,047
		PNW Terrestrial AIM Vegetation Sampling for BLM in OR and WA, 2019 and 2020 field seasons.	15.000					246,567
		Rangeland Resource Management	15.237					38,316
		Response of Carnivores to Reduced Prey Abundance at the Starkey Experimental Forest and Range	15.000		Oregon Dept of Fish & Wildlife	107-20		71,714
		State Wildlife Grants	15.634		Alaska Department of Fish and Game	19-093		(10)
		State Wildlife Grants	15.634		Oregon Dept of Fish & Wildlife	426-18		139,441
		Subsistence salmon networks in Yukon River communities	15.000		Alaska Department of Fish and Game	19-057		35,156
		Threatened and Endangered Species	15.246					137,394
		U.S. Geological Survey_ Research and Data Collection	15.808				554,613	955,465
		VAR-FED VMRC	15.000					3,439

Cluster	Federal Grantor	Program Title	AL Number	Additional Award		Pass-Through Identifying Number	Passed through to Subrecipients	Total Expenditures
				Identification	Pass-Through Entity			
		Vya Juniper Removal	15.000					26,792
		Western Oregon Elk Habitat Use, Survival and Reproductive Parameters	15.000		Oregon Dept of Fish & Wildlife	326-20		10,214
		Wildland Fire Research and Studies	15.232				50,154	134,450
		Wildlife Resource Management	15.247					375,281
	<i>Department of the Interior Total</i>						<b>1,670,679</b>	<b>8,230,413</b>
	<b>Department of Transportation</b>	Additional RTK GNSS sensors for coastal landslide monitoring	20.000		Oregon Dept of Transportation	30530-20-09		35,593
		Air Transportation Centers of Excellence	20.109					344,581
		Alternative High Early Strength Concrete (HESC) Structural Overlays	20.000		Oregon Dept of Transportation	30530-21-09		37,996
		Automated Landslide "Hot Spot" Identification Tool for Optimized Climate Change and Seismic Resiliency	20.000		Oregon Dept of Transportation	30530-18-01	5,793	14,483
		Autonomous Track Inspection System based on Passive Sensing and Anomaly Detection	20.000		University of South Florida	2106-1323-00-A		18,815
		BEST PRACTICES FOR WORK ZONE SAFETY DURING TRAFFIC CONTROL PLACEMENT, REMOVAL, AND MODIFICATIONS	20.000		Oregon Dept of Transportation	30530-21-08		19,662
		BICYCLE DETECTION AND FEEDBACK ASSESSMENT	20.000		Oregon Dept of Transportation	30530-19-06		4,904
		BRIDGE COLUMN FOOTING PERFORMANCE AND SEISMIC RETROFIT EVALUATION CONSIDERING SOIL-STRUCTURE INTERACTION	20.000		Oregon Dept of Transportation	30530-20-06		170,490
		Cascadia Lifelines Research Consortium Public Membership	20.000					114,086
		Centerline Rumble Strip Effects on Pavement Performance	20.000		Oregon Dept of Transportation	30530-20-08		71,200
		Coastal Landslide and Bluff Retreat Monitoring for Climate Change Adaptation and Targeted Risk Assessment	20.000		Oregon Dept of Transportation	30530-17-02	445	57,221
		Constructing High Performance Asphalt Pavements by Improving In-Place Pavement Density	20.000		Oregon Dept of Transportation	30530-19-13		50,112
		Cyclic Response of Young Silt and Clay for Van Buren Bridge	20.000		Oregon Dept of Transportation	30530-20-11		8,027
		Design and Life-Cycle Assessment of Gabion Barriers for Rockfall Mitigation using Numerical Modeling	20.000		Oregon Dept of Transportation	30530-20-03	15,498	168,253
		Detector Performance	20.000		Oregon Dept of Transportation	30530-20-10		22,066
		Determining Landslide Drain Efficiency Lifecycle for Development of Maintenance and Operations Manuals	20.000		Oregon Dept of Transportation	30530 20-01		147,897
		EXPANDING THE OREGON MOTOR CARRIER SAFETY ACTION PLAN: BEST RETURN ON INVESTMENT	20.000		Oregon Dept of Transportation	30530-20-04	22,605	72,353
		Guidelines for Response Planning, Assessment, and Rapid Restoration of Service of Bridges in Extreme Events	20.000		National Academy of Sciences	HR 14-45 SUB0001579 Unit 905	10,656	93,348
		Highway Research and Development Program	20.200		Iowa State University	019859WO2B		7,981
		Highway Research and Development Program	20.200		University of Florida	SUB00001970		142,892
		Highway Research and Development Program	20.200		University of Texas at Austin	UTA19-000521		145,460
		Highway Research and Development Program	20.200					77,412
		Highway Training and Education	20.215					35,542
		Impact of Use of Portland-Limestone Cement on Concrete Performance as Plain or Reinforced Material	20.000		California Department of Transportation	65A0677		7,089
		IMPACTS OF INTERSECTION TREATMENTS AND TRAFFIC CHARACTERISTICS ON BICYCLIST SAFETY	20.000		Oregon Dept of Transportation	30530-20-05		47,243
		IMPLEMENTATION OF A LABORATORY CONDITIONING AND TESTING PROTOCOL TO EVALUATE MOISTURE SUSCEPTIBILITY OF ASPHALT MIXTURES	20.000		Oregon Dept of Transportation	30530-20-07		136,029
		Improving Constructability and Durability of Concrete Pavements	20.000		Oregon Dept of Transportation	30530-19-12		95,015
		Integrating construction practices and weather into freeze thaw specifications	20.000		Oklahoma State University	1-501021-01		30,080
		Nonlinear Time History Analysis Accuracy with a Focus on Column Plasticity and Cyclic Degradation	20.000		California Department of Transportation	65A0679	14,951	1,944
		Physics-based modeling of rumble strip noise	20.000		Oregon Dept of Transportation	30530-19-11		49,045
		Preliminary Investigation of Heavy Vehicle Parking Design in Oregon Rest Areas	20.000					40,001
		Speed Variation and Safety in Work Zones	20.000		Oregon Dept of Transportation	30530-19-10		37,520
		Toward a Florida Automated, Connected, Electric and Shared (ACES) Transportation System Roadmap: Phase I	20.000		University of South Florida	2117-1945-00-A / P000010338		13,636
		University Transportation Centers Program	20.701		University of Washington	UWSC10563/BPO35916		11,701
		University Transportation Centers Program	20.701		University of Washington	UWSC10564/BPO35918	(832)	
		University Transportation Centers Program	20.701		University of Washington	UWSC11515/BPO44081		37,488
		University Transportation Centers Program	20.701		University of Washington	UWSC11517/BPO44087		7,779
		University Transportation Centers Program	20.701		University of Washington	UWSC11520/BPO44129		27,690
		University Transportation Centers Program	20.701		University of Washington	UWSC11519/BPO44090		39,992
		University Transportation Centers Program	20.701		University of Washington	UWSC11732/BPO46691		10,000
		University Transportation Centers Program	20.701		University of Washington	UWSC11987-BPO419175		10,001
		University Transportation Centers Program	20.701		University of Washington	UWSC12120/BPO 50677		34,839
		University Transportation Centers Program	20.701		University of Washington	UWSC12120/BPO 50675		29,074
		University Transportation Centers Program	20.701		University of Washington	UWSC12050/BPO58225		2,027
		University Transportation Centers Program	20.701		University of Washington	UWSC12583/BPO#54676		1,996
		University Transportation Centers Program	20.701		University of Washington	UWSC12584/BPO#54679		19,611
		University Transportation Centers Program	20.701		University of Washington	UWSC12640/BPO55489		2,826
		University Transportation Centers Program	20.701		University of Washington	UWSC12666 BPO#55533		1,509
		University Transportation Centers Program	20.701					646
		UPDATED SURVEY STANDARDS & CONTROL GUIDANCE QUICK HIT	20.000		Oregon Dept of Transportation	30530 / 20-02		15,744
		US HIGHWAY 101 COASTAL HAZARD VULNERABILITY AND RISK ASSESSMENT FOR MITIGATION PRIORITIZATION	20.000		Oregon Dept of Transportation	30530-21-01	7,537	115,444

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				Identification	Pass-Through Entity		Subrecipients	Total Expenditures
		Vulnerable and Disabled Road Users: Considerations Inside and Outside the Vehicle	20.000		toXcel	693J1919F000170 / 2019-005		112,798
		<i>Department of Transportation Total</i>					<b>77,485</b>	<b>2,798,308</b>
	<b>Environmental Protection Agency</b>	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	19-147		3,230
		Impacts of Vehicle Emission Regulations and Local Congestion Policies on Birth Outcomes Associated with Traffic Air Pollution	66.000		Health Effects Institute	4970-RFA18-1/20-4-2	88,244	307,288
		Nonpoint Source Implementation Grants	66.460		Oregon Dept of Environmental Quality	040-20		(46)
		Nonpoint Source Implementation Grants	66.460		Oregon Dept of Environmental Quality	068-19		(186)
		Office of Research and Development Consolidated Research/Training/Fellowships	66.511				161,604	430,575
		Puget Sound Action Agenda: Technical Investigations and Implementation Assistance Program	66.123		Puget Sound Partnership	2018-19		56,645
		Science To Achieve Results (STAR) Research Program	66.509		North Carolina State University	2019-0821-01		126,287
		Science To Achieve Results (STAR) Research Program	66.509				84,823	302,934
		<i>Environmental Protection Agency Total</i>					<b>334,672</b>	<b>1,226,728</b>
	<b>National Aeronautics and Space Administration</b>	Aeronautics	43.002		Arizona State University	16-883		51,347
		Aeronautics	43.002					54,895
		Deposition and Curing of Thermoset Resin Mixtures for Thermal Protection	43.000		Voxel, Inc	2021-80NSSC20C0300 PO#NPJ1064A		3,709
		Development of the Electric Lift Augmentation with Slats (ELAS)	43.000		CubCrafters			15,748
		Electrically Tunable Quasioptical Filters Enabled by Inverse Design of Epsilon-Near-Zero Metasurfaces	43.000					1,977
		Global assessment of climate driven trends in marine primary productivity	43.000				4,455	6,615
		L'Space Evaluation Phase C&D	43.000		Arizona State University	ASUB00000414 / PO-19-00144788		51,120
		Maximizing Utility of Remote Sensing Data for Water Quality Monitoring and Resources Management in California's Water Systems	43.000		Jet Propulsion Lab	1576067		12,122
		MT Data Acquisition Services for NASA	43.000		Incorporated Research Institutions for Seismology	SU-19-1101-05-OSU	176,748	253,848
		Science	43.001		East West Center	HC13704		56,741
		Science	43.001		Institute for Global Environmental Strategies	18I004/18I008		190,645
		Science	43.001		Jet Propulsion Lab	1612966		39,940
		Science	43.001		Jet Propulsion Lab	1628812		5,038
		Science	43.001		Princeton University	SUB0000206		5,538
		Science	43.001		Smithsonian Institute	TM9-20002X		12,128
		Science	43.001		University Corporation for Atmospheric Research	SUBAWD001879		14,706
		Science	43.001		University of Arizona	529182		59,786
		Science	43.001		University of Arizona	529183		113,308
		Science	43.001		University of Colorado Boulder	1558712 / PO#1001296706		46,439
		Science	43.001		University of Colorado Boulder	1560248 / PO1001456426		25,829
		Science	43.001		University of Colorado Boulder	1560402		27,364
		Science	43.001		University of Maryland, Baltimore County	NASA0003-01		187,228
		Science	43.001		University of South Florida	NNX14AP62A: Sub 2500-1616-00-1		20,721
		Science	43.001		University of Texas at Austin	UTA20-000752		96,604
		Science	43.001		University of Washington	UWSC10734/BPO 34586		95,528
		Science	43.001		University of Washington	UWSC9030/BPO10407		46,093
		Science	43.001		WGBH Educational Foundation	K192542		210,557
		Science	43.001		Woods Hole Oceanographic Institution	A101248		103,799
		Science	43.001		Woods Hole Oceanographic Institution	A101346		90,263
		Science	43.001				517,555	3,956,929
		Space Operations	43.007					97,133
		Space Technology	43.012					119,549
		Wind stress climatology and anomalies along the U.S. East Coast from Coastal QuikSCAT v4.0	43.000		Jet Propulsion Lab	1624044		(1)
		<i>National Aeronautics and Space Administration Total</i>					<b>698,758</b>	<b>6,073,247</b>
	<b>National Science Foundation</b>	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					285,212
		Biological Sciences	47.074		Cold Spring Harbor Lab	52930113///513/517/PO920802-SV		15,419
		Biological Sciences	47.074		Cornell University	93000-20637		11,384
		Biological Sciences	47.074		Kansas State University	A00-0071-S010		4,439
		Biological Sciences	47.074		University of California Berkeley	0009876		2,205
		Biological Sciences	47.074		University of California Berkeley	00010649		48,077
		Biological Sciences	47.074		University of Florida	SUB00002556		19,515
		Biological Sciences	47.074		University of Minnesota - Twin Cities	H006143902		18,025
		Biological Sciences	47.074		University of Oregon	2010R0B		106,733
		Biological Sciences	47.074		Yale University	GR103815 (CON-80001381)		114,062
		Biological Sciences	47.074				162,548	5,597,282
		Biological Sciences	47.074		Sonoma State University	119957		32,973
		Computer and Information Science and Engineering	47.070		Portland State University	100013		30,339
		Computer and Information Science and Engineering	47.070		University of Colorado Boulder	1560280		40,606
		Computer and Information Science and Engineering	47.070		University of Oregon	2013SOA		10,000

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				Identification	Pass-Through Entity			
		Computer and Information Science and Engineering	47.070				130,589	3,865,661
		Education and Human Resources	47.076		American Mathematical Association of Two-Year Colleges	PS-4		10,402
		Education and Human Resources	47.076		Association of Science-Technology Centers	DRL-1612739		48,216
		Education and Human Resources	47.076		Astronomical Society of the Pacific	2018-03-76-OSU		96,030
		Education and Human Resources	47.076		Bentley University	2303-02 / PO#106491		73,403
		Education and Human Resources	47.076		California State University, Long Beach	S232119100OSU		49,164
		Education and Human Resources	47.076		Gulf of Maine Research Institute	30-LVAISL-OSU		68,436
		Education and Human Resources	47.076		Knology	1612729		62,228
		Education and Human Resources	47.076		Northeastern University, Boston, MA	502780-78051		36,978
		Education and Human Resources	47.076		Portland State University	100188		4,111
		Education and Human Resources	47.076		Pratt Institute	1612719		34,776
		Education and Human Resources	47.076		Swinomish Indian Tribal Community	2019-2501		45,890
		Education and Human Resources	47.076		University of California Berkeley	00009327		19,511
		Education and Human Resources	47.076		University of Georgia	SUB00002123		70,438
		Education and Human Resources	47.076		University of Utah	10051886-53 / U000220351		17,498
		Education and Human Resources	47.076		University of Washington	UWSC11099/BPO39225		88,409
		Education and Human Resources	47.076		Washington State University	131202 G004099		20,180
		Education and Human Resources	47.076				275,592	3,889,881
		Education and Human Resources	47.076		Association of Children's Museums Inc	DRL-20005944		75,348
		Engineering Grants	47.041		Colorado State University	G-00973-1	2,048	60,043
		Engineering Grants	47.041		North Carolina State University	2020-2498-01		40,959
		Engineering Grants	47.041		University of California / San Diego	129207183/S9002586		73,302
		Engineering Grants	47.041		University of Colorado Boulder	1558570 \ PO1001272371		27,209
		Engineering Grants	47.041		University of Washington	UWSC8669/BPO 10063		21,757
		Engineering Grants	47.041		University of Washington	UWSC9420/BPO 18494		30,766
		Engineering Grants	47.041		University of Washington	UWSC12170/BPO50997		69,580
		Engineering Grants	47.041				179,760	5,562,490
		Geosciences	47.050		Grotthuss Inc	2021-2012221		38,358
		Geosciences	47.050		Colorado School of Mines	401574-5805		3,418
		Geosciences	47.050		Columbia University	6 (GG009393)		65,809
		Geosciences	47.050		Columbia University	6B (GG009393)		10,450
		Geosciences	47.050		Columbia University	6C(GG009393)		15,727
		Geosciences	47.050		Columbia University	6E(GG009393-04)/SAPO G14696		78,865
		Geosciences	47.050		Incorporated Research Institutions for Seismology	SU-19-1001-05-OSU	29,328	68,974
		Geosciences	47.050		University of Alaska - Fairbanks	UAF 20-0026 / PO539124		51,409
		Geosciences	47.050		University of Alaska - Fairbanks	UAF 18-0071 / P0521787		20,934
		Geosciences	47.050		University of Arizona	4010190 / PO 241794		10,047
		Geosciences	47.050		University of California at Santa Cruz	A17-0931-S001-P0690785		83,659
		Geosciences	47.050		University of Colorado Boulder	1560131		25,935
		Geosciences	47.050		University of Hawaii	MA 1390 /PO# Z10181865		63,652
		Geosciences	47.050		University of Texas at Austin	UTA17-000311		105,162
		Geosciences	47.050		Woods Hole Oceanographic Institution	A101404 OCE-1743430 (CA)		7,977,948
		Geosciences	47.050		Woods Hole Oceanographic Institution	A101490		2,261
		Geosciences	47.050		Woods Hole Oceanographic Institution	A101407 OCE-1743430 (CA)		4,058,021
		Geosciences	47.050				814,383	64,859,742
		Geosciences	47.050		Williams College	202-NSF1434946-OSU		20,120
		Geosciences	47.050		Desert Research Institute	GR12553		14,529
		IPA Agreement Peszynska (DB 3251 CTW)	47.000					203,540
		IPA as Office Head, Office of International Science and Engineering (OISE)	47.000					108,494
		Julie Pett-Ridge IPA Agreement	47.000					90,155
		Mathematical and Physical Sciences	47.049		American Physical Society	EP3-003-2018		32,255
		Mathematical and Physical Sciences	47.049		University of Wisconsin-Milwaukee	193405413		145,424
		Mathematical and Physical Sciences	47.049				22,922	2,630,731
		Office of Integrative Activities	47.083		Indiana University	8109-OSU / PO0075797		32,178
		Office of Integrative Activities	47.083		University of Missouri	C00060846-3		39,633
		Office of Integrative Activities	47.083				228,948	1,154,583
		Polar Programs	47.078		University of California / San Diego	703665		9,269
		Polar Programs	47.078		University of California / San Diego	KR 703915		304,750
		Polar Programs	47.078					473,485
		Social, Behavioral, and Economic Sciences	47.075		Montana State University	G116-19-W7346		30,269
		Social, Behavioral, and Economic Sciences	47.075					82,429
		Social, Behavioral, and Economic Sciences	47.075		University of Arkansas	UA2020-131		18,697
		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		456
		<b>National Science Foundation Total</b>					<b>1,846,117</b>	<b>103,730,303</b>

Cluster	Federal Grantor	Program Title	AL Number	Additional Award		Pass-Through Identifying Number	Passed through to	
				Identification	Pass-Through Entity		Subrecipients	Total Expenditures
	<b>Nuclear Regulatory Commission</b>	Maintenance and Development of the VARSKIN 5 Computer Code	77.000					1,977
		U.S. Nuclear Regulatory Commission Scholarship and Fellowship Program	77.008					61,136
	<i>Nuclear Regulatory Commission Total</i>						-	63,112
	<b>Department of State</b>	International Programs to Combat Human Trafficking	19.019		University of Georgia		-	20,244
	<b>Department of the Treasury</b>	Coronavirus Relief Fund	21.019		Oregon Health Authority	166966		562,911
		Coronavirus Relief Fund	21.019		Deschutes County			21,111
	<i>Department of the Treasury Total</i>						-	584,022
	<b>Total Research and Development Cluster</b>						17,520,434	234,063,081
<b>Childcare and Development Fund</b>	<b>Department of Health and Human Services</b>	Child Care and Development Block Grant	93.575		Oregon Dept of Education	10854		155,371
		Child Care and Development Block Grant	93.575		Oregon Dept of Education	12343		196,719
	<b>Total Childcare and Development Fund</b>						-	352,090
<b>Child Nutrition</b>	<b>Department of Agriculture</b>	Summer Food Service Program for Children	10.559		Oregon Dept of Education	1815001		196
	<b>Total Child Nutrition Cluster</b>						-	196
<b>Fish and Wildlife</b>	<b>Department of the Interior</b>	Wildlife Restoration and Basic Hunter Education	15.611		Alaska Department of Fish and Game	CT 180000933		65,483
		Wildlife Restoration and Basic Hunter Education	15.611		Nevada Department of Wildlife	SG20-11		33,171
		Wildlife Restoration and Basic Hunter Education	15.611		Oregon Dept of Fish & Wildlife	144-15		74,885
		Wildlife Restoration and Basic Hunter Education	15.611		Oregon Dept of Fish & Wildlife	249-18		52,843
		Wildlife Restoration and Basic Hunter Education	15.611		Oregon Dept of Fish & Wildlife	250-20		137,855
		Wildlife Restoration and Basic Hunter Education	15.611		Wyoming Game and Fish Department	003084		33,544
		Wildlife Restoration and Basic Hunter Education	15.611		Wyoming Game and Fish Department	003133		39
		Wildlife Restoration and Basic Hunter Education	15.611		Wyoming Game and Fish Department	003397		28,296
	<b>Total Fish and Wildlife Cluster</b>						-	426,117
<b>Highway Planning and Construction</b>	<b>Department of Transportation</b>	Highway Planning and Construction	20.205		Oregon Dept of Transportation	30530-19-01	8,434	137,942
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	30530-19-05		(0)
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	33062-01		67,477
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	33062-02		28,198
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	33062-03		14,132
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	34003		34,223
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	RS-20-77-01		67,278
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	31867-02		50,111
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	30530-21-02		50,469
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	30530-21-06		39,014
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	30530-21-05		91,032
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	30530-21-04		20,000
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	RS-21-77-01		103,146
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	30530-21-07		30,750
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	33062-04		72,792
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	33062-06		41,430
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	33062-05		14,643
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	33062-07		1,047
		Highway Planning and Construction	20.205		Oregon Dept of Transportation	31867-03		47,011
		Highway Planning and Construction	20.205					71,118
	<b>Total Highway Planning and Construction Cluster</b>						8,434	981,812
<b>Medicaid</b>	<b>Department of Health and Human Services</b>	Medical Assistance Program	93.778		Oregon Department of Human Services	160110		99,826
		Medical Assistance Program	93.778		Oregon Health Authority	159940		1,400,423
	<b>Total Medicaid Cluster</b>						-	1,500,249
<b>SNAP</b>	<b>Department of Agriculture</b>	State Administrative Matching Grants for the Supplemental Nutrition Assistance Program	10.561		Oregon Department of Human Services	152303	149,962	7,268,801
		State Administrative Matching Grants for the Supplemental Nutrition Assistance Program	10.561		Oregon Department of Human Services	152303 Amd 2		(256,030)
		State Administrative Matching Grants for the Supplemental Nutrition Assistance Program	10.561		Oregon Department of Human Services	158399		34,076
	<b>Total SNAP Cluster</b>						149,962	7,046,846

Cluster	Federal Grantor	Program Title	AL Number	Additional Award		Pass-Through Identifying Number	Passed through to Subrecipients	Total Expenditures	
				Identification	Pass-Through Entity				
TRIO	Department of Education	TRIO_Student Support Services	84.042					633,455	
		TRIO_Upward Bound	84.047					273,352	
	<b>Total TRIO Cluster</b>						-	<b>906,807</b>	
Other	Department of Agriculture	Acer Access Development Program	10.174					95,825	
		Agricultural Research_Basic and Applied Research	10.001		USDA - Ag Research Service	59-5090-8-001		13,767	
		Agricultural Research_Basic and Applied Research	10.001						8,526
		Agriculture and Food Research Initiative (AFRI)	10.310		University of Nebraska	25-6226-0546-008			12,029
		Agriculture and Food Research Initiative (AFRI)	10.310		University of Vermont	32556SUB52591			2,505
		Agriculture and Food Research Initiative (AFRI)	10.310						619,349
		Beginning Farmer and Rancher Development Program	10.311					66,399	306,409
		Child and Adult Care Food Program	10.558		Oregon Dept of Education	02-15002			2,586
		Cooperative Extension Service	10.500		eXtension Foundation	NTAE-2020-2102			6,338
		Cooperative Extension Service	10.500		Kansas State University	A00-0983-5076			5,303
		Cooperative Extension Service	10.500		Washington State University	134194-G004015			5,361
		Cooperative Extension Service	10.500		Washington State University	134194-G004172		3,077	32,638
		Cooperative Extension Service	10.500						5,008,447
		Cooperative Forestry Assistance	10.664		U.S. Endowment for Forestry & Communities, Inc.	E19-64			32,881
		Crop Protection and Pest Management Competitive Grants Program	10.329		University of California Agriculture & Natural Resources	SA18-4060-01			47,057
		Crop Protection and Pest Management Competitive Grants Program	10.329		University of California Agriculture & Natural Resources	SA18-4060-16			7,579
		Crop Protection and Pest Management Competitive Grants Program	10.329						319,575
		Farm and Ranch Stress Assistance Network Competitive Grants Program	10.525		Washington State University	137288-G04122			79,075
		Growing Forestry Capacity in Peru	10.000						168,385
		Higher Education - Multicultural Scholars Grant Program	10.220						62,000
		Higher Education Graduate Fellowships Grant Program	10.210						24,507
		Inner City Youth Institute	10.000						2,913
		Integrated Programs	10.303		University of Georgia	SUB00002199			7,762
		Integrated Programs	10.303						14,393
		International Forestry Programs	10.684						864,466
		Klamath County School District Farm-to-School: Feeding our Students, Farmers and Economy	10.000		Klamath County School District				114
		Landscape Scale Restoration (LSR) Forestry Education	10.000		Oregon Dept of Forestry	18-DG-11062765-715			21,945
		National Food Safety Training, Education, Extension, Outreach, and Technical Assistance							
		Competitive Grants Program	10.328					31,908	361,799
		New Beginnings for Tribal Students	10.527					1,655	28,194
		Niche Meat Processor Assistance Network (NMPAN)	10.000					13,711	52,277
		Northwest Fire Science Consortium	10.000						109,618
		ODA Biological Control Information Survey	10.000		Oregon Dept of Agriculture	ODA-4238-IG			8,004
		Oregon Wildfire Risk Explorer Enhancement	10.000		Oregon Dept of Forestry	19-4102-0120			(51)
		Organic Agriculture Research and Extension Initiative	10.307		Clemson University	2049-207-2012799			3,021
		Organic Agriculture Research and Extension Initiative	10.307		Cornell University	90031-11291			(19)
		Organic Agriculture Research and Extension Initiative	10.307		Cornell University	90033-20653			3,675
		Organic Agriculture Research and Extension Initiative	10.307		Cornell University	92406-20530			18,378
		Organic Agriculture Research and Extension Initiative	10.307		Lincoln University	2017-3628			1,118
		Organic Agriculture Research and Extension Initiative	10.307		Montana State University	G211-19-W7408			13,531
		Organic Agriculture Research and Extension Initiative	10.307		Tuskegee University	22091 410 76190			12,852
		Organic Agriculture Research and Extension Initiative	10.307		University of Illinois, Urbana-Champaign	088736-16613			13,775
		Organic Agriculture Research and Extension Initiative	10.307		University of Minnesota	H007332401			34,996
		Organic Agriculture Research and Extension Initiative	10.307		Utah State University	14082303-280			(1,795)
		Organic Agriculture Research and Extension Initiative	10.307		Utah State University	201160-457			14,813
		Organic Agriculture Research and Extension Initiative	10.307		Washington State University	126216-G003508			4,503
		Organic Agriculture Research and Extension Initiative	10.307						17,976
Outreach and Assistance for Socially Disadvantaged and Veteran Farmers and Ranchers	10.443					6,060	8,154		
Plant and Animal Disease, Pest Control, and Animal Care	10.025						284,854		
Secondary and Two-Year Postsecondary Agriculture Education Challenge Grants	10.226						18,600		
Soil and Water Conservation	10.902						50,086		
Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	5013			7,834		
Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA-18-007-GR			83,329		
Specialty Crop Block Grant Program - Farm Bill	10.170		Oregon Dept of Agriculture	ODA-18-015-GR			35,246		
Specialty Crop Block Grant Program - Farm Bill	10.170		University of California, Davis	A18-1176-S0001			3,235		
Sustainable Agriculture Research and Education	10.215		Montana State University	G175-19-W7506/ PO-106491			0		
Sustainable Agriculture Research and Education	10.215		Montana State University	G335-20-W7899			71,313		
Sustainable Agriculture Research and Education	10.215		University of Idaho	AT4151-SB-768892			8,721		
Sustainable Agriculture Research and Education	10.215		Utah State University	201207-584			19,785		
Sustainable Agriculture Research and Education	10.215		Washington State University	135424 G004088			5,428		
Technical Agricultural Assistance	10.960					99,750	221,351		



Cluster	Federal Grantor	Program Title	AL Number	Additional Award Identification	Pass-Through Entity	Pass-Through Identifying Number	Passed through to Subrecipients	Total Expenditures
		Update of the Forest Landowner's Guide to the Federal Income Tax and creation of complementary outreach materials	10.000					14,883
		Wood Utilization Assistance	10.674					2,693
	<i>Department of Agriculture Total</i>						<b>222,561</b>	<b>9,303,909</b>
<b>Department of Commerce</b>		Cluster Grants	11.020					3,995
		External Coordinator for the Center for Independent Experts	11.000		NTVI Communications, Inc.	SA-14-NOAA-02 Task Order 01		843
		External Coordinator for the Center for Independent Experts	11.000		NTVI Communications, Inc.	80011.0025 - OSU-01		32,781
		Fisheries Development and Utilization Research and Development Grants and Cooperative Agreements Program	11.427					4,057
		Marine Sanctuary Program	11.429					21,726
		NOAA NEWPORT OPERATION AND MAINTENANCE	11.000					934,301
		NOAA OER IPA Agreement for Dr. Stephen Hammond	11.000					88,501
		Sea Grant Support	11.417		University of Alaska - Fairbanks	UA 21-0022		5,774
		Sea Grant Support	11.417		University of Washington	UWSC11591 / BPO44969		128,291
		Sea Grant Support	11.417					1,262,357
		Treeline-Resilient PNW Riparian Climate Corridors	11.000		Bonneville Environmental Foundation	MG-10788		7,998
	<i>Department of Commerce Total</i>						-	<b>2,490,625</b>
<b>Department of Defense</b>		Community Economic Adjustment Assistance for Compatible Use and Joint Land Use Studies	12.610		Oregon Dept of Energy	19-075		128,027
		Participation in the Navy Marine Species Monitoring Program Review meeting 2019	12.000		HDR One Company	1000300001242		3,851
		Stochastic Climate Simulator for coastal Storm Damage Reduction	12.000					75,317
	<i>Department of Defense Total</i>						-	<b>207,195</b>
<b>Department of Education</b>		4H Teen Childcare Certification Program	84.000		South Coast Regional Early Learning Hub	029		6,969
		COVID 19: Education Stabilization Fund - Student Financial Aid	84.425E	COVID-19, 84.425E				7,779,999
		COVID 19: Education Stabilization Fund - Institutional Support	84.425F	COVID-19, 84.425F				18,822,487
		COVID 19: Education Stabilization Fund - Strengthening Institutions Program (SIP)	84.425M	COVID-19, 84.425M				100,321
		Gaining Early Awareness and Readiness for Undergraduate Programs	84.334				1,078,528	3,069,932
		Migrant Education_College Assistance Migrant Program	84.149					390,278
		Migrant Education_High School Equivalency Program	84.141					519,797
		Migrant Education_State Grant Program	84.011		Oregon Dept of Education	12892		137,860
	<i>Department of Education Total</i>						<b>1,078,528</b>	<b>30,827,643</b>
<b>Department of Energy</b>		2021 Marine Energy Collegiate Competition	81.000		DOE National Renewable Energy Lab	SUB-2021-10527		18,422
		Better Scientific Software Fellowship	81.000		DOE Oak Ridge National Laboratory	4000168106		8,601
		Energy Efficiency and Renewable Energy Information Dissemination, Outreach, Training and Technical Analysis/Assistance	81.117					236,245
		Industrial Walk Through Checklist and Reference	81.000					29,729
		Joint Appointment for Prof Heidi Schellman	81.000		Fermi National Accelerator Laboratory	PO 663188		50,084
		National University Consortium Joint Appointment	81.000		Idaho National Laboratory	161644-0002		1,712
		Nonproliferation and Safeguards Seminar Series	81.000		DOE Pacific Northwest National Lab	445770-501928		5,615
		Nuclear Energy Research, Development and Demonstration	81.121					349,313
		Renewable Energy Research and Development	81.087		Pacific Ocean Energy Trust	TEAMER.TB.OSU		32,776
		Renewable Energy Research and Development	81.087		University of California, Los Angeles	4550 G WA295		41,835
		Robertson Joint Appointment Agreement	81.000		DOE Pacific Northwest National Lab	445770-497586		15,337
	<i>Department of Energy Total</i>						-	<b>789,669</b>
<b>Department of Health and Human Services</b>		2021 Communities Talk: Town Hall Meetings to Prevent Underage Drinking initiative	93.000					712
		Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323		Oregon Health Authority	166591		12,137
		Every Student Succeeds Act/Preschool Development Grants	93.434		Portland State University	100144		13,055
		ICF Conference	93.000		ICF International	19CBPA0064 161645		10,015
		Intergovernmental Personnel Act - Amanda Gladics- 20IPA2014099	93.000					4,157
		Intergovernmental Personnel Act - Angee Doerr - 20IPA2014099	93.000					9,584
		Maternal and Child Health Services Block Grant to the States	93.994		Oregon Health & Science University	1015198_OSU		19,260
		Opioid STR	93.788					20,880
		Substance Abuse and Mental Health Services_Projects of Regional and National Significance	93.243					63,472
	<i>Department of Health and Human Services Total</i>						-	<b>153,271</b>
<b>Department of Justice</b>		Juvenile Mentoring Program	16.726		National 4-H Council	4H NMP 9		(143)
		Juvenile Mentoring Program	16.726		National 4-H Council	4H NMP10		15,007
		Juvenile Mentoring Program	16.726		National 4-H Council	4HNMP Yr9		3,399
		Juvenile Mentoring Program	16.726		National 4-H Council	4HNMP10		94,005
	<i>Department of Justice Total</i>						-	<b>112,268</b>
<b>Department of the Interior</b>		Clean Vessel Act	15.616					56,985
		Continued Computer Support for High Resolution Regional Climate Data	15.000					4,942
		Cooperative Ecosystem Studies Units	15.678					4,915

Cluster	Federal Grantor	Program Title	AL Number	Additional Award		Pass-Through Identifying Number	Passed through to	
				Identification	Pass-Through Entity		Subrecipients	Total Expenditures
		Cooperative Research and Training Programs Resources of the National Park System	15.945					46,874
		CVA Outreach, Education, and Maintenance Training	15.000		Oregon State Marine Board	1719-FAC-001		30,019
		Forests and Woodlands Resource Management	15.233					1,456
		Indian Water Rights Settlements Negotiation and Conflict Resolution Training	15.000					14,038
		Secure Rural Schools and Community Self-Determination	15.234					116
		U.S. Geological Survey_ Research and Data Collection	15.808					230,659
		USGS IPA Cascadia Mapping	15.000					30,070
	<i>Department of the Interior Total</i>						-	<b>420,075</b>
	<b>Department of Transportation</b>	FHWA Every Day Counts 5 (EDCS) Unmanned Aerial Systems	20.000		WSP USA Inc	182858		34,239
		University Transportation Centers Program	20.701		University of Washington	UWSC10006/BPO26179		83,022
		University Transportation Centers Program	20.701		University of Washington	UWSC10011/BPO26198		7,656
		University Transportation Centers Program	20.701		University of Washington	UWSC11735/BPO46693		3,472
	<i>Department of Transportation Total</i>						-	<b>128,390</b>
	<b>Department of Veterans Affairs</b>	IIR 17-039 Improving Veteran Health by Increasing Dental Stewardship of Antibiotics and Opioids	64.000					<b>17,918</b>
	<b>Environmental Protection Agency</b>	Evaluating PSEM for the General Public	66.000		Oregon Dept of Agriculture	ODA-4204-IG		33,652
		Indigenous Voices in Natural Resources Education	66.000		Sustainable Forestry Initiative inc	2021 SFI Education Grant Pgm		4,700
		Nonpoint Source Implementation Grants	66.460		Oregon Dept of Environmental Quality	128-20		14,660
		Pollution Prevention Grants Program	66.708		Oregon Dept of Environmental Quality	001-18		59,980
		Pollution Prevention Grants Program	66.708		Oregon Dept of Environmental Quality	126-21		57,121
		Research, Development, Monitoring, Public Education, Outreach, Training, Demonstrations, and Studies	66.716		eXtension Foundation	SA-2020-61		17,775
		Research, Development, Monitoring, Public Education, Outreach, Training, Demonstrations, and Studies	66.716		University of California, Davis	201600040-01/A16-0211-S001-A05		175,486
		Research, Development, Monitoring, Public Education, Outreach, Training, Demonstrations, and Studies	66.716		University of California, Davis	A18-0208-S001-A04		46,108
		Research, Development, Monitoring, Public Education, Outreach, Training, Demonstrations, and Studies	66.716				28,657	887,794
		Strengthening Environmental Education Training Networks	66.000		Sustainable Forestry Initiative inc	PLT/ee360		6,600
	<i>Environmental Protection Agency Total</i>						<b>28,657</b>	<b>1,303,875</b>
	<b>Institute of Museum and Library Services</b>	Museums for America	45.301					11,178
		National Leadership Grants	45.312		University of Oregon	239720A		44,613
	<i>Institute of Museum and Library Services Total</i>						-	<b>55,791</b>
	<b>National Aeronautics and Space Administration</b>	Education	43.008				150,762	689,871
		L'Space Evaluation	43.000		Arizona State University	PO-19-00043025		1,102
		Science	43.001					78,457
	<i>National Aeronautics and Space Administration Total</i>						<b>150,762</b>	<b>769,430</b>
	<b>Department of the Treasury</b>	COVID 19: Coronavirus Relief Fund	21.019	COVID 19	NeighborImpact	2021-1633		20,000
		COVID 19: Coronavirus Relief Fund	21.019	COVID 19	YMCA of Columbia Willamette	2021-2247		51,104
		COVID 10: Coronavirus Relief Fund	21.019	COVID 19	Linn County	2020-304		8,552
	<i>Department of the Treasury Total</i>							<b>79,656</b>
	<b>Total Other</b>						<b>1,480,508</b>	<b>46,659,714</b>
	<b>Total Federal Expenditures</b>						<b>\$ 19,159,339</b>	<b>\$ 472,776,262</b>
							-	-

**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, 2021. 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 for all awards with the exception of Assistance Listing 21.019, which follows criteria determined by the Department of Treasury for allowability of costs. Under these principles, certain types of expenditures are not allowable or are limited as to reimbursement. Negative amounts shown on the Schedule represent adjustments or credits made in the normal course of business to amounts reported as expenditures in prior years. 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, 2021 consists of:

<u>Program Title</u>	<u>CFDA Number</u>	<u>Amount Outstanding</u>
Perkins Loans	84.038	\$14,106,737

**OREGON STATE UNIVERSITY  
SCHEDULE OF FINDINGS AND QUESTIONED COSTS  
FOR THE YEAR ENDED JUNE 30, 2021**

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***Section I – Summary of Auditors’ Results***

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***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***

<b>CFDA Number(s)</b>	<b>Name of Federal Program or Cluster</b>
84.268, 84.063, 84.038 84.007, 84.033	Student Financial Assistance Cluster
10.500	Cooperative Extension Service
84.425E, 84.425F	COVID-19 – Education Stabilization Fund
84.334	Gaining Early Awareness and Readiness for Undergraduate Programs

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, 2021**

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***Section II – Financial Statement Findings***

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Our audit did not disclose any matters required to be reported in accordance with *Government Auditing Standards*.

**OREGON STATE UNIVERSITY  
SCHEDULE OF FINDINGS AND QUESTIONED COSTS  
FOR THE YEAR ENDED JUNE 30, 2021**

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***Section III – Federal Awards***

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**2021-001: Gramm-Leach-Bliley Act Requirements**

Federal Agency: Department of Education  
Federal Program: Student Financial Assistance Cluster  
Assistance Listing Numbers:

- 84.007 – Federal Supplemental Education Opportunity Grants
- 84.033 – Federal Work Study Program
- 84.063 – Federal Pell Grant Program
- 84.268 – Federal Direct Student Loans
- 84.038 – Federal Perkins Loan Program

**Award Period:** July 1, 2020 to June 30, 2021

**Type of Finding:**

- Significant Deficiency in Internal Control over Compliance
- Compliance, Other Matter

**Criteria or Specific Requirement:** The Gramm-Leach-Bliley Act (GLBA) (Public Law 106-102) requires financial institutions to explain their information-sharing practices to their customers and to safeguard sensitive data. (16 CFR 314) The Federal Trade Commission considers Title IV-eligible institutions that participate in Title IV Educational Assistance Programs as “financial institutions” and subject to the Gramm-Leach-Bliley Act (16 CFR 313.3(k)(2)(vi).

Under an institution’s Program Participation Agreement with the Department of Education and the Gramm-Leach-Bliley Act, schools must protect student financial aid information, with particular attention to information provided to institutions by the Department or otherwise obtained in support of the administration of the federal student financial aid programs. Requirements of the Act include:

- Institution has designated an individual to coordinate the information security program
- Institution has performed a risk assessment that addresses the three required noted in 16 CFR 314.4(b), which are (1) Employee training and management; (2) Information systems, including network and software design, as well as information processing, storage, transmission and disposal; and (3) Detecting, preventing and responding to attacks, intrusions, or other systems failures.
- Institution has documented a safeguard for each risk identified above.

Lastly, in accordance with 2 CFR Title 2, Subtitle A, Chapter 2, Part 200, Subpart D, 200.303, the non-federal entity must establish and maintain effective internal controls over the federal award to provide reasonable assurance that the non-federal entity is manager the award in compliance with federal regulations.

**Condition:** While the University had certain security controls in place, a formal risk assessment in compliance with the Act was not performed by the University.

**OREGON STATE UNIVERSITY  
SCHEDULE OF FINDINGS AND QUESTIONED COSTS  
FOR THE YEAR ENDED JUNE 30, 2021**

**Context:** The University did not formally perform and document a risk assessment that addressed one of the areas noted in 16 CFR 314.4 (b) regarding information systems, including network and software design, as well as information processing, storage, transmission and disposal.

**Cause:** While the University did perform a risk assessment covering various systems, the University did not formally perform and document a risk assessment covering the second area noted in 16 CFR 314.4 (b).

**Effect:** Personal information could be vulnerable without identifying all potential risks and applying necessary safeguards. In addition, the University is not in compliance with all statutory and regulatory provisions as it pertains to safeguarding sensitive data.

**Recommendation:** We recommend that the University identify systems where compliance with the Gramm-Leach-Bliley Act is required and ensure that a formal risk assessment is performed and documented to demonstrate compliance with the Act.

**Repeat Finding:** This is not a repeat finding.

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

**Views of Responsible Officials:** Management is in agreement with this finding. See Corrective Action Plan for planned response.

**2021-002: Subrecipient Monitoring**

Federal Agency: Department of Education  
Federal Program: Gaining Early Awareness and Readiness for Undergraduate Programs  
Assistance Listing Number: 84.334

**Award Period:** July 1, 2020 to June 30, 2021

**Type of Finding:**

- Significant Deficiency in Internal Control over Compliance
- Compliance, Other Matter

**Criteria or Specific Requirement:** According to 2 CFR Part 200, Subpart D, Section 200.332, pass-through entities are required to perform certain subrecipient monitoring procedures. These procedures include providing the subrecipient necessary award information so that the federal award is used in accordance with federal regulations, evaluating risks of noncompliance of subrecipients, implementing monitoring procedures based upon identified risks, and obtaining a copy of the subrecipients' annual audit and taking appropriate action on deficiencies detected through the audits, just to name a few. Lastly, in accordance with 2 CFR Title 2, Subtitle A, Chapter 2, Part 200, Subpart D, 200.303, the non-federal entity must establish and maintain effective internal controls over the federal award to provide reasonable assurance that the non-federal entity is manager the award in compliance with federal regulations.

**OREGON STATE UNIVERSITY  
SCHEDULE OF FINDINGS AND QUESTIONED COSTS  
FOR THE YEAR ENDED JUNE 30, 2021**

**Condition:** The University did not verify whether the subject subrecipients received a required annual audit under 2 CFR Part 200. By not verifying and obtaining a copy of the most recent audit of the subrecipients, the University was unaware if any University enforcement action against noncompliant subrecipients should occur.

**Context:** A sample of six out of 20 subrecipients was selected for testing. The University did not secure the required annual report for any of the subrecipients tested.

**Cause:** In March 2020 there was significant restructuring of post-award duties which resulted in a shifting of duties between positions. In addition, the onset of the pandemic impacted the ability to fill newly created and existing vacancies. Due to this reorganization, transition to remote operations and resource constraints the task to obtain and review the annual audit reports was not being performed as part of the subrecipient monitoring process.

**Effect:** The University was deficient in complying with subrecipient monitoring requirements relative to obtaining the annual audit reports and performing the appropriate follow-up procedures (if necessary). By not securing the required annual report of subrecipients, there is a risk that subrecipients could have instances of deficiencies or noncompliance that directly impacts the award, but the University is unable to respond accordingly, given it would not be aware of the issues identified.

**Recommendation:** We recommend the University implement a comprehensive process (and relevant internal controls) to ensure all elements of 2 CFR Part 200, Subpart D, Section 200.332 are being met, including obtaining a copy of the subject subrecipients' annual audits and taking appropriate action on deficiencies detected through the audits. Tools, such as checklists or electronic workflows, can assist in ensuring all required elements are being met.

**Repeat Finding:** This is not a repeat finding.

**Questioned Costs:** None

**Views of Responsible Officials:** Management is in agreement with this finding. See Corrective Action Plan for planned response.





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## ***Section IV – Prior Year Findings***

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### **FINDINGS—FINANCIAL STATEMENT AUDIT**

#### **2020 – 001 : Significant Deficiency in Internal Control over Financial Reporting**

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

**Status:** This item was resolved in 2021.

### **FINDINGS— FEDERAL AWARD PROGRAMS AUDITS**

There were no federal award program audit findings in the prior year.



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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, 2020 – June 30, 2021

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**

No matters reported.

#### **FINDINGS—FEDERAL AWARD PROGRAMS AUDITS**

##### **SIGNIFICANT DEFICIENCY OVER INTERNAL CONTROL, OTHER MATTER**

##### **2021-001      Gramm-Leach-Bliley Act Requirements**

Federal Agency: Department of Education  
Federal Program: Student Financial Assistance Cluster  
Assistance Listing Numbers:

- 84.007 – Federal Supplemental Education Opportunity Grants
- 84.033 – Federal Work Study Program
- 84.063 – Federal Pell Grant Program
- 84.268 – Federal Direct Student Loans
- 84.038 – Federal Perkins Loan Program

**Recommendation:** We recommend that the University identify systems where compliance with the Gramm-Leach-Bliley Act is required and ensure that a formal risk assessment is performed and documented to demonstrate compliance with the Act.

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

**Action taken in response to finding:** The University agrees. The University-wide security program did not specifically identify the GLBA systems and risks; however, critical systems such as financial aid, student financial systems and credit card processing are reviewed routinely for control structure. In addition, the university-wide information

security program assessment conducted annually by the Chief Information Security Officer is based on the National Institute of Standards and Technology (NIST) Cybersecurity Framework, with assessments conducted in September 2019, February 2021 and November 2021.

The Controller and Vice Provost for University IT/CIO reviewed and approved the risk assessment for GLBA data developed by the Chief Information Security Officer and a task force in May of 2022. The Risk Assessment covered all three areas required by GLBA, including risks regarding information systems, network and software design, as well as information processing, storage, transmission and disposal. The assessment includes mitigation for identified risks and accountability for each risk. The assessment will be reviewed at least annually and changes in risk will be briefed to the Controller and Vice Provost for University IT/CIO.

**Name of the contact person responsible for corrective action:**

David McMorries, Assist. Vice Provost & Chief Information Security Officer

**Planned completion date for corrective action plan:** May 2022

SIGNIFICANT DEFICIENCY OVER INTERNAL CONTROL, OTHER MATTER

2021-002      **Subrecipient Monitoring**

Federal Agency: Department of Education  
Federal Program: Gaining Early Awareness and Readiness for Undergraduate Programs  
Assistance Listing Number: 84.334

**Recommendation:** We recommend the University implement a comprehensive process (and relevant internal controls) to ensure all elements of to 2 CFR Part 200, Subpart D, Section 200.332 are being met, including obtaining a copy of the subject subrecipients' annual audits and taking appropriate action on deficiencies detected through the audits. Tools, such as checklists or electronic workflows, can assist in ensuring all required elements are being met.

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

**Action taken in response to finding:** The University will identify resources in order to obtain and review the annual audit reports for required subrecipients. Appropriate follow-up will occur for any deficiencies identified by December 31, 2022. In an effort to improve processes going forward, the research office plans to conduct a comprehensive review of the existing subrecipient monitoring plan to identify best practices and ensure



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compliance with all elements of 2 CFR Part 200, Subpart D, Section 200.332. The review is expected to be completed by March 31, 2023.

**Name of the contact person responsible for corrective action:**

Jennifer Creighton, Associate Vice President for Research Administration, Finance and Operations

**Planned completion date for corrective action plan:** Corrective action to obtain and review the annual audit reports for all subrecipients and conduct follow-up will occur for any deficiencies identified by December 31, 2022. The comprehensive review is expected to be completed by March 31, 2023.

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



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