

OREGON STATE UNIVERSITY
SINGLE AUDIT REPORT
FOR THE YEAR ENDED JUNE 30, 2016

**OREGON STATE UNIVERSITY
SINGLE AUDIT REPORT
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INDEPENDENT AUDITORS' REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS*

Members of the Board
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, 2016 and 2015, and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated October 31, 2016. Our report includes a reference to other auditors who audited the financial statements of the Oregon State University Foundation and the Agricultural Research Foundation, which comprise the aggregate discretely presented component units, as described in our report on the University's financial statements. This report does not include the results of the other auditors' testing of internal control over financial reporting or compliance and other matters that are reported on separately by those auditors. The financial statements of the aggregate discretely presented component units were not audited in accordance with *Government Auditing Standards*.

Internal Control over Financial Reporting

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

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

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

Compliance and Other Matters

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

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.

A handwritten signature in black ink that reads "CliftonLarsonAllen LLP". The signature is written in a cursive, flowing style.

CliftonLarsonAllen LLP

Denver, Colorado
October 31, 2016



CliftonLarsonAllen

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
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 program for the year ended June 30, 2016. The University's major federal program is 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 major federal program. However, our audit does not provide a legal determination of the University's compliance.

Opinion on Each Major Federal Program

In our opinion, Oregon State University complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on its major federal program for the year ended June 30, 2016.

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 2016-001 and 2016-002. Our opinion on each major federal program 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 response was not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the responses.

Report on Internal Control over Compliance

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

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

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that were not identified. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, we identified certain deficiencies in internal control over compliance, as described in the accompanying schedule of findings and questioned costs as items 2016-001 and 2016-002, which 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, 2016, and the related notes to the financial statements, which collectively comprise the University's basic financial statements. We issued our report thereon dated October 31, 2016, which contained unmodified opinions on those financial statements. Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the basic financial statements. 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
October 31, 2016

Oregon State University
Schedule of Expenditures of Federal Awards
For the Year Ended June 30, 2016

<i>Federal Cluster</i>	<i>Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed Through to Subrecipients</i>	<i>Expenditures</i>
Student Financial Assistance							
	Department of Education	Direct Student Loans	84.268			\$ -	\$ 146,134,803
		Federal Pell Grant	84.063			-	31,036,885
		Federal Supplemental Educational Opportunity Grant	84.007			-	1,061,663
		Federal Work-Study	84.033			-	819,704
		Perkins Loans	84.038			-	29,298,937
		Postsecondary Education Scholarships for Veteran's Dependents	84.408			-	5,382
Total Student Financial Assistance Cluster						-	208,357,374
Research and Development							
	Agency for International Development	Cooperative Development	98.002	Arizona State University	15-652	-	80,162
		USAID Foreign Assistance for Programs Overseas	98.001			-	258,644
		Aquaculture & Fisheries Collaborative Research Support Program	98.000			953,890	2,817,684
<i>Total Agency for International Development</i>						953,890	3,156,490
	Department of Agriculture	1994 Institutions Research	10.227	Northwest Indian College	28754	-	26,621
			10.227	Northwest Indian College	28755	-	8,882
		Agricultural & Rural Economic Research	10.250			-	44,615
		Agricultural Market & Economic Research	10.290			-	82,887
		Agriculture & Food Research Initiative (AFRI)	10.310			520,753	5,488,094
			10.310	Colorado State University	G-91600-7	-	119,748
			10.310	North Carolina State University	2015-0097-09	-	4,312
			10.310	Oregon Health & Sciences University	1002187_OSU	-	159,145
			10.310	Rutgers, The State University of New Jersey	5489 / PO S2119064	-	171,992
			10.310	University of Arizona	PO 185016	-	100,666
			10.310	University of Arkansas	UA AES 0402-82678-02	-	23,525
			10.310	University of California, Davis	201015718-19	-	183,068
			10.310	University of California, Davis	201503531-02	-	18,728
			10.310	University of Delaware	25866	-	116,355
			10.310	University of Idaho	BDK640-SB-001 / PO P0045056	21,308	89,842
			10.310	University of Idaho	BJKL03-SB-001 / PO PA031110	18,882	759,566
			10.310	University of Maryland	Z5775004	-	1,157
			10.310	University of Oregon	238371B	-	26,413
			10.310	University of Vermont	28069 SUB 51557 Oregon	-	79,801
			10.310	University of Washington	UWSC6362/BPO 6217 (729759)	-	885,054
			10.310	University of Wisconsin	583K284	-	42,942
			10.310	Virginia Tech	422190-19201	-	66,569
			10.310	Virginia Tech	422262-19201	-	165,973
			10.310	Washington State University	115320 G002932	-	-
			10.310	Washington State University	115808 G002981	-	1,355,567

<i>Federal</i>	<i>Cluster</i>	<i>Grantor</i>	<i>Program Title</i>	<i>CFDA</i>	<i>Pass-Through</i>	<i>Pass-Through</i>	<i>Passed</i>	<i>Expenditures</i>
				<i>Number</i>	<i>Entity</i>	<i>Identifying</i>	<i>Through to</i>	
						<i>Number</i>	<i>Subrecipients</i>	
					Washington State			
				10.310	University	122925 G003378	-	20,133
			Animal Health & Disease Research	10.207			-	59,520
			Basic & Applied Research	10.001			6,916	2,851,379
					Brigham Young			
				10.001	University	15-0453	-	4,632
					University of			
				10.001	Nebraska	25-6235-0205-005	-	2,233
					USDA-Ag Research			
				10.001	Service	59-5082-6-001	-	1,710
			Biomass Research & Development Initiative	10.312	University of Hawaii	MA120041	-	93,822
			Biotechnology Risk Assessment Research	10.219			-	236,950
			Consumer Data & Nutrition Research	10.253			-	41,385
					Montana State			
			Cooperative Extension Service	10.500	University	G178-15-W4251	-	7,282
			Cooperative Forestry Assistance	10.664			-	2,360
					Oregon Dept. of			
				10.664	Forestry	2015-1128	-	13,678
					Oregon Dept. of			
				10.664	Forestry	2015-1140	-	25,706
					U.S. Endowment for			
					Forestry &			
				10.664	Communities, Inc.	P3-11	-	6,014
					U.S. Endowment for			
					Forestry &			
				10.664	Communities, Inc.	P3-4	-	114,155
			Cooperative Forestry Research	10.202			3,681	103,856
				10.202			-	573,417
			Crop Insurance	10.450			-	1,093,421
			Crop Protection & Pest Management	10.329			31,431	110,963
					University of			
					California Agriculture			
				10.329	& Natural Resources	SA14-2309-03	-	20,427
					University of			
					California Agriculture			
				10.329	& Natural Resources	SA14-2309-05	-	30,169
					University of			
					California Agriculture			
				10.329	& Natural Resources	SA14-2309-12	-	7,712
					University of			
					California, Davis			
			Environmental Quality Incentives	10.329		SA14-2309-01	-	33,875
				10.912			-	17,000
					Pheasants Forever			
					Inc.			
				10.912	OSU LPCI-2016-04		-	72,068
					University of Hawaii			
				10.912	MA150011		-	6,449
			Federal-State Marketing Improvement	10.156			-	10,051
			Forest Health Protection	10.680			-	119,050
			Forestry Research	10.652			-	48,595
					U.S. Endowment for			
					Forestry &			
					Communities, Inc.			
				10.652	12-CA-11330126-		-	12,633
					090		-	167,546
			Graduate Fellowships Grants	10.210				
					University of			
					California, Davis			
			Homeland Security Agricultural	10.304		201303063-03	-	110,182
			Integrated Programs	10.303			80,249	165,442
					University of			
					Minnesota			
				10.303	H003693401		-	24,991
					Washington State			
					University			
				10.303	119274 G003236		-	5,695
					Washington State			
					University			
			Organic Agriculture Research & Extension Initiative	10.303		121310_ G003263	-	24,031
				10.307			487,656	696,793
				10.307	Cornell University	67385-9952	-	35,182

<i>Federal Cluster Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed Through to Subrecipients</i>	<i>Expenditures</i>
		10.307	Purdue University	8000064231-AG	-	26,015
		10.307	Rutgers, The State University of New Jersey	4832 / PO S1769900	-	190
		10.307	Washington State University	119028 G003171	-	83,384
	Payments to Agricultural Experiment Stations Under the Hatch Act	10.203			-	4,137,623
	Plant & Animal Disease, Pest Control, & Animal Care	10.025			-	136,448
		10.025	Virginia Tech	422427-19201	-	15,280
		10.025	Virginia Tech	422485-19201	-	7,461
	Plant Materials for Conservation	10.905			-	28,084
	Small Business Innovation Research	10.212	eWind Solutions LLC Hexpoint	2016-578	-	12,354
		10.212	Technologies	2015-01	-	31,336
		10.212	Intralix Inc.	2015-33610-23952-1	-	784
		10.212	mAbDx, Inc.	2015-839	-	2,005
	Soil & Water Conservation	10.902			128,676	130,329
	Soil Survey	10.903			-	84,448
	Special Research Grants	10.200			127,550	398,436
		10.200	Montana State University	G158-15-W4250	-	(58)
		10.200	Rutgers, The State University of New Jersey	5769-FB-Johnson	-	14,997
		10.200	University of California, Davis	201302570-06- OSU- DeFrncs-FoodU	-	52
		10.200	University of California, Davis	201302570-15- OSU- DeFrncs-OHORT	-	(2)
		10.200	University of California, Davis	2014025878-16-OSU- DeFran-OHort	-	11,972
		10.200	University of California, Davis	201402878-09- OSU- DeFranc-FoodU	-	86,105
		10.200	University of California, Davis	201502587-05- OSU- DeFranc-FoodU	-	60,166
		10.200	University of California, Davis	201502587-14- OSU- DeFrances-ECS	-	5,981
		10.200	University of California, Davis	201502587-19- OSU- DeFrancesc-OH	-	10,284
		10.200	University of California, Davis	201502587-20- OSU- SantaMaria-OH	-	13,750
		10.200	University of Idaho	BAK308-SB-003 / PO P0040851	-	25,737
		10.200	University of Idaho	BJKP36-SB-002 / PO P0048287	-	11,823
		10.200	University of Washington	734595	-	2,582
		10.200	University of Washington	UWSC8941 / BPO14206	-	30,416
		10.200	Washington State University	105577_ G003395	-	144,332
	Specialty Crop Block Grant	10.170	Oregon Dept. of Agriculture	ODA 3515 GR	-	35,654
		10.170	Oregon Dept. of Agriculture	ODA 3516 GR	-	55,338
		10.170	Oregon Dept. of Agriculture	ODA 3517 GR	-	30,262
		10.170	Oregon Dept. of Agriculture	ODA 3518 GR	-	70,712

<i>Federal Cluster Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed Through to Subrecipients</i>	<i>Expenditures</i>
		10.170	Oregon Dept. of Agriculture	ODA 3519 GR	-	42,371
		10.170	Oregon Dept. of Agriculture	ODA 3593 GR	-	64,045
		10.170	Oregon Dept. of Agriculture	ODA-3357-GR / PCA 20333	-	5,760
		10.170	Oregon Dept. of Agriculture	ODA-3693-GR / PCA 20395	-	4,129
		10.170	University of Nebraska	26-6553-0052-002	-	180
	Specialty Crop Research Initiative	10.309			5,971	525,264
			Citrus Research & Development Foundation Inc.	13-011NU-790	-	5,496
		10.309	Clemson University	1766-207-2020386	-	214,308
		10.309	Cornell University	61314-9365	-	12,568
		10.309	Cornell University	73999-10418	-	173,963
		10.309	Michigan State University	RC100888OSU	-	2,705
		10.309	Michigan State University	RC102039B	-	116,613
		10.309	North Carolina State University	2016-0228-02	-	97,974
		10.309	University of Georgia	RR722-418/5054556	-	15
		10.309	University of Wisconsin	350K862	-	53,821
		10.309	Virginia Tech	422171-19201	-	13,208
		10.309	Washington State University	123535_ G003385	-	307,485
		10.309	Washington State University	125970- G003493	-	16,608
	Sun Grants	10.320			164,854	205,622
		10.320	South Dakota State University	3TB640	-	22,857
	Sustainable Agriculture Research & Education	10.215	Utah State University	110892013	-	83,975
		10.215	Utah State University	120833022	53,609	113,356
		10.215	Utah State University	120833034/GW15- 018	-	6,475
		10.215	Utah State University	120833039/GW15- 034	-	15,367
		10.215	Utah State University	130676019	-	6,782
		10.215	Utah State University	14044901	-	5,529
		10.215	Utah State University	140867025-212	-	81,973
		10.215	Utah State University	140867028	-	25,112
		10.215	Utah State University	140867030-265	-	19,506
		10.215	Utah State University	140867031	-	15,988
		10.215	Utah State University	150893-00001-177	-	21,025
	Wood Utilization Assistance	10.674			-	62,405
	Developing SNP Panel for Interior Douglas Fir	10.000			-	16,545
	Modeling River Dynamics and Riparian Plants	10.000			-	10,207
	2006 WUI Map: New Methods and Data	10.000			-	97
	Annual Variation in Abundance of Small Mammals on the H.J. Andrews Experimental Forest	10.000			-	2,874
	Patterns of Non-Structural Carbon Storage in Western Conifers	10.000			-	1,435

<i>Federal Cluster Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed Through to Subrecipients</i>	<i>Expenditures</i>
	Developing Education and Research Infrastructure & Programs at the H.J. Andrews Experimental Forest	10.000			-	7,940
	Water Availability in Western Oregon Headwaters: Effects of Density Management and Riparian Buffers	10.000			-	3,150
	The Climate Change Transcriptome Observatory for Forest Trees in the Pacific Northwest	10.000			-	1,415
	Riparian Microclimate and Microsite in Relation to Vegetation & Site Attributes	10.000			-	(15)
	Dispersed Resource Recreation Monitoring and Economic Analysis	10.000			-	25,845
	Dry Forest Restoration	10.000			-	20,424
	Tree Ring Analysis of Historical & Contemporary Advanced Regeneration & Survival of Whitebark Pine Stand Decimated by Mountain Pine Beetle	10.000			5,665	6,231
	Developing Design Models for Cellulose Nanocrystal Composites	10.000			-	21,570
	An Improved Biomass and Carbon Database for West Coast Tree Species	10.000			-	10,613
	Forests, People, Fire: Vegetation and GIS Modeling	10.000			-	30,764
	Forests, People, Fire: Interactions, Dynamics, and Adaptation in Fire-Prone Landscapes of the Eastern Cascades of Oregon	10.000			-	17,401
	Joint Venture Agreement: Evaluation and Synthesis of Long Term Forest-Stream Data from the H.J. Andrews Experimental Forest	10.000			-	27,570
	Demography of Northern Spotted Owls in Oregon and Washington	10.000			-	1,101,797
	Assessing the Ecological Effects of Wildfire in the Pacific Northwest at Regional Scales	10.000			-	40,558
	Habitat Change and Sustainable Management of a Hunted Moose Population Copper River Delta Alaska	10.000			-	1,214
	Characterization of the Ectomycorrhizal Fungus Community Associated w/ Chrysolepis Chrysophylla	10.000			-	24,235
	Monitoring Existing Forest Vegetation in Support of Northwest Forest Plan Effectiveness	10.000			-	115,312
	Effects of Anthropogenic and Ungulate Disturbance Intensities on Native & Exotic Understory Forest Dynamics	10.000			-	61,167
	Seed Production of Great Basin Native Forbs-SDI for Stable, Efficient Native Forb Seed Production Using Small Amounts of Supplemental Irrigation Water; Weed Control; and Seeding Practices	10.000			-	11,502
	Social Vulnerability to Wildland Fire: Developing and Validating a Fine-Scale Index	10.000			-	62,916
	Incorporating Uncertainty into Climate Envelope Modeling for Tree Species	10.000			-	3,304
	Planning the Integration of Swiss Needlecast Foliage Disease Module with Dynamic Global Vegetation Model	10.000			-	17,533
	Amphibian Pathogens: Patterns of Occurrence and Infectivity	10.000			-	14,018
	Spatial Monitoring of Forest Conditions Over Regional Landscapes	10.000			-	202,899

<i>Federal Cluster</i>	<i>Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed Through to Subrecipients</i>	<i>Expenditures</i>
		Exploring New Approaches to Evaluating the Suitability of Federal Lands for Grazing in Eastern Oregon	10.000			-	9,869
		Lichen and Bryophyte Indicators & Roles in Forests	10.000			-	27,335
		Status and Trends of Whitebark Pine Distribution and Health in California, Oregon and Washington	10.000			-	8,221
		Regional Carbon Models from Linking Field Measurements & Satellite Change Detection	10.000			-	19,467
		Use of LIDAR & Other Remote Sensing Data w/FIA Plots for Mapping Forest Inventory in Southwest Oregon	10.000			-	82,308
		Bark Beetle and Fire Interactions	10.000			-	27,914
		Improving Management Strategies to Reduce Damage by Forest & Aquatic Mammals	10.000			-	124,605
		Development and Application of Large Scale Wildland Threat Simulation Technologies	10.000			-	4,102
		Vulnerability of Forest-Dependent Human Communities in the Pacific Northwest to Climate Change	10.000			-	471
		Analysis of demographic rates of Northern Spotted Owls: a meta-analysis workshop.	10.000			-	5,497
		An Analysis of Potential Water Use and Water Quality Impacts on Upper Coastal Plain Watersheds under Intensive Woody Biofuel Management	10.000			-	62,477
		Chemistry of streams and precipitation at the H.J. Andrews Experimental Forest	10.000			-	46,924
		Long-term Studies of Vegetation Dynamics in the Pacific Northwest	10.000			-	92,012
		Lentic to Lotic: Effects of increased reservoir drawdown on resource dynamics in Willamette Basin Reservoirs and implications for salmonid rearing capacity	10.000			-	158,212
		Interpreting hydro-geomorphic responses of streams and landscapes to climate change: new management options and tools	10.000			-	104,212
		Habitat use and bioenergetics of bull trout in Ross Lake, WA	10.000			-	1,319
		Understanding How Management Influences Production of Juvenile Steelhead and Rainbow Trout	10.000			-	121,302
		Long-term effects of restoration fire and thinning on soil fungi, fine root biomass, and duff levels	10.000			-	34,435
		Meta-Analysis of Douglas-Fir Provenance Tests to Estimate Responses to Seed Transfer and Climate Change	10.000			-	6,302
		Post-mountain pine beetle lodgepole pine forests: Assessing fire behavior & fire effects in the recently burned Pole Creek Fire area on the Sisters Ranger District Deschutes National Forest	10.000			-	24,328
		Support for the Landscape Change Monitoring System	10.000			-	317,447
		Synthesis of issues and considerations for forests and communities in woody biomass collection and bioenergy production	10.000			-	4,059

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	Sustainable and Thriving Environments of West African Regional Development	10.000			-	9,956
	Understanding the Mediating Political, Economic and Social Forces Creating Exurban Residential Environments and Patterns of Outdoor Recreation	10.000			-	10,630
	Landscape Genetics of Beaver in the Oregon Coast Range	10.000			-	12,827
	Mitigation of soilborne Phytophthora ramorum to prevent recurrent nursery infestation	10.000			-	59,919
	Spatial effects of multifunctionality in Douglas-fir beetle pheromone MCH	10.000			-	9,895
	OSU and SNF Cultural Resource Five-Year Internship Program	10.000			-	16,674
	BLM-OSU riparian thinning and stream ecosystem structure collaboration: preliminary data collection	10.000			-	36,545
	Annual Variation in Abundance of Small Mammals on the H. J. Andrews Experimental Forest, Oregon	10.000			-	106,711
	Land-use history in Hells Canyon National Recreation Area	10.000			-	2,810
	Seed Increase of Great Basin Native Forbs and Grasses for Restoration Research Projects	10.000			-	49,854
	Mortality and regeneration of western tree species - forests at the fringe	10.000			-	30,503
	Vegetation dynamics following high severity wildfires and the long-term impacts of emergency slope stabilization	10.000			-	18,673
	Evaluating stand thinning as a means to mitigate drought: The influence of topography	10.000			-	38,216
	Using an Agent-based Model to Evaluate Landscape Restoration Scenarios	10.000			-	148,693
	Tradeoffs among carbon and other ecosystem services in Oregon	10.000			-	84,139
	Enhancing long term research & data management at the H.J. Andrews Experimental Forest	10.000			-	32,733
	Ecology & Management of Mammalian Prey in the Pacific Northwest	10.000			-	65,344
	Approaches to assessing climate vulnerability of PNW Forest Ecosystems	10.000			-	150,561
	Evaluating downscaled climate data & vegetation models at regional scales	10.000			-	130,055
	PNW Climate Hub Outreach Project	10.000			-	47,749
	Evaluating assisted migration options for adapting to climate change	10.000			-	335
	Effect of seed sources & test site planting environment on foliage diseases & other damage agents in a Douglas-fir reciprocal transplant study	10.000			-	27,209
	Climate Change Effects on Coastal Riverscapes Oregon	10.000			-	27,966
	Genomic Verification of Timber Species & Geographic Origin	10.000			-	32,696
	Inteactions Among Consumers And Stream Functional Process in the Pacific Northwest: Scaling Responses From Patches To Watersheds	10.000			-	19,540
	Collaboration for improving species identification and developing genomic resources for Cedrela odorata	10.000			-	33,644

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	Thinning and fuels reduction treatments for ponderosa pine forest restoration	10.000			-	25,442
	A Headwater Stream Multi-Species Inventory of Fish and Amphibians Using Environmental DNA	10.000			-	4,293
	Salmon responses to shifts in hydrology due to climate change	10.000			-	14,526
	Water availability in western Oregon headwaters: effects of density management and riparian buffers	10.000			-	17,899
	Analysis of private timber harvesting in NWFPregion using remotesensed data	10.000			-	25,129
	Assessing Multiple Stressors to Western Landscapes	10.000			-	48,223
	Improving biomass equations for west coast tree species	10.000			-	109,416
	Meadow Creek Restoration Monitoring - Assessing Impacts of Climate Change, Grazing, and Restoration Treatments on Vertebrates, Invertebrates, and Vegetation	10.000			-	98,436
	Using the new verbenone antiaggregant formulation "SPLAT" to protect whitebark pine from mountain pine beetle infestation	10.000			-	16,640
	Early-seral habitat changes in public and private forestlands in western Oregon and Washington	10.000			-	26,943
	Continued Development of and Analysis with the Forestry Sector and Bioenergy Components of FASOM-GHG	10.000			-	14,489
	Estimation of biomass for common individual shrubs in northeastern California	10.000			-	35,504
	Design for Mobile Anchors in Logging Systems: Field Verification and Dissemination	10.000			-	78,371
	Southern Blues CFLRP Forest Vegetation and Fuels Multi-Party Monitoring Program	10.000			-	57,062
	Integration of biofuels and bioproducts production into forest products supply chains using modular biomass gasification and carbon activation	10.000			-	38,003
	Developing a Wilderness Character Monitoring Protocol for the US Forest Service	10.000			-	9,000
	Sagebrush Steppe Monitoring Study	10.000			-	60,070
	Swiss Needle Cast Detection with a low cost Unmanned Aerial System	10.000			-	13,609
	A Field Test of Local Adaptation in Bluebunch Wheatgrass (<i>Pseudoroegneria spicata</i>)	10.000			-	21,768
	Mapping Biomass from 1984-2014 Across the Pacific Northwest from LandTrendr Products	10.000			-	43,849
	Influence of Landscape Disturbance on Opportunities to Achieve Land and Fire Management Objectives	10.000			-	101,008
	Assessing Effects of Fuel Reduction Treatments on Ecosystem Structure and Function	10.000			-	134,980
	LandTrendr for the PNW NASA CMS Project	10.000			-	14,187
	Socioeconomic Aspects of Beaver Mgmt for Rangeland Restoration	10.000			-	18,918

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		Contribution of Outdoor Recreation Activity to Social and Economic Conditions in Local Communities	10.000			-	3,775
		Assessing and Addressing Effects of Forest Mgmt on Pacific Marten Habitat in Western Forests	10.000			-	118,412
		Optimization of multi-species monitoring technique	10.000			-	59,439
		Impacts of climate change on goby dispersal & recruitment in Hawaiian streams	10.000			-	4,645
		Are plant pathogens entering nurseries from wildland forests? Are native plant nurseries serving as pathogen gateways?	10.000			-	6,727
		Wildland fire managers' use of fire weather data in strategic and tactical decision-making across the United States: a combined fire modeling and social science-based analysis	10.000			-	12,818
		STANDFIRE Platform Development & Documentation	10.000			-	6,340
		Center for Intensive Planted-Forest Silviculture (CIPS)	10.000			-	1,148
		Examining Preferences for Ecosystem Services as Forest Management Outcomes	10.000			-	777
		Biomass Processing Center Modeling	10.000			-	12,370
		Phytophthora Species Diagnostics	10.000			-	182,923
		Modeling Life History Strategies of Steelhead and Rainbow Trout	10.000			-	23,722
		Spatial analyses of restoration priorities on the national forests of the Pacific Northwest	10.000			-	6,229
		Assessing fuel management strategies to reduce landscape-level wildfire risk and transmission	10.000			-	129,870
		Ecosystem Processes and Productivity: Biomass and nutrient cycling in the Pacific Northwest	10.000			-	36,482
		Evaluating Forest Collaboratives as a Model of Natural Resource Governance	10.000			-	44,792
		Oregon Explorer Western Wildlife Risk Assessment and Community Wildfire Protection Planning	10.000	Oregon Dept. of Forestry	2015-1548	-	30,104
		Woody Plants traits as predictors of resilience to environmental stress	10.000			-	1,288
		Comprehensive forest recreation values database update, with supporting analysis and training for technical transfer	10.000			-	21,595
		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			-	9,997
		P3Nano Rebudget	10.000	Purdue University	8000072326-AG	-	47,872
		Northwest Tree Improvement Cooperative	10.000			-	19,006
		Pacific Northwest Terrestrial Ecological Unit Inventory: Landtype Association User Guide and Soil Resource Inventory Attribute Development	10.000			-	118,754
		Strengthen Underwriting and Oversight Activities Using PRISM Spatial Climate Data Sets	10.000			-	440,667
		Lesser Prairie-Chicken Initiative Science Advisor	10.000	Pheasants Forever	Not Available	-	113,312

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		Forest Action Plan Mobility Project	10.000	Oregon Dept. of Forestry	Not Available	-	5,750
		VAR-FED Hardwoods Silviculture Res	10.000			-	3,643
		VAR-FED Swiss Needle Cast Cooperative	10.000			-	19,766
		Watersheds Research Coop - Federal Cooperators	10.000			-	24,555
		Federal Cooperators Wood-Based Composite Center	10.000			-	2,386
		Expanding access to specialty produce in the NW through variety trials and market introduction of overwintering and storage crops	10.000	Organic Seed Alliance	ODA-3359-GR / PCA 20335	-	2,738
		Expanding access to specialty produce in the NW through variety trials and market introduction of overwintering and storage crops	10.000	Organic Seed Alliance	WSDA K1269	-	7,313
	<i>Total Department of Agriculture</i>					1,657,201	31,932,990
Department of Commerce		Arrangements for Interdisciplinary Research Infrastructure	11.619	Colorado State University	G-00745-8	-	165,667
		Center for Sponsored Coastal Ocean Research	11.478			-	295,343
			11.478	University of Miami	S1503	-	167,824
		Climate & Atmospheric Research	11.431			173,576	1,340,776
		Columbia River Fisheries Development	11.436	Oregon Dept. of Fish & Wildlife	020-11172-IAA-FISH	-	70,619
			11.436	Oregon Watershed Enhancement Board	212-920-11790	-	49,567
			11.436	Oregon Watershed Enhancement Board	212-920-12708	-	35,499
		Education Quality Award Ambassadorship	11.013			4,052	97,132
		Educational Partnership Program	11.481	University of Maryland Eastern Shore	NA11SEC481 Year 5 / PO 17716	-	136,799
			11.481	University of Maryland Eastern Shore	PO 17716 / year 4	-	111,819
		Environmental Sciences, Applications, Data & Education	11.440	University of Maryland	Z763707 / Part II	-	(1)
		Fisheries Development & Utilization	11.427	Hubbs-SeaWorld Research Institute	2016-1112	-	16,544
			11.427	Pacific Shellfish Institute	OSU-Nash SK Eelgrass 2015-2017	-	29,245
		Geodetic Surveys & Services	11.400	University of New Hampshire	15-021	-	21,642
		Integrated Ocean Observing System (IOOS)	11.012	Monterey Bay Aquarium Research Institute	1411209	-	52,932
			11.012	Southeastern Universities Research Association	2013-011	-	87,066
			11.012	University of Washington	UWSC6350 / BPO5105 (730279)	-	925,499
			11.012	University of Washington	UWSC7800 / BPO5119 (762841)	-	64,257
		Marine Mammal Data	11.439			-	106,865
		National Oceanic & Atmospheric Co-op Institutes	11.432			58,027	2,320,587
			11.432	University of Maryland	18171-Z7813007	-	113,625
			11.432	University of Washington	763663	-	12,071

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				Washington Department of Ecology	IAA No. C1600003	-	22,000
		Office for Coastal Management Sea Grant Support	11.473			163,326	1,159,848
			11.417	University of Oregon	2409U0A	-	9,204
		Unallied Science Program	11.472	North Pacific Research Board	1205 / F5205-00	-	56,404
			11.472	North Pacific Research Board	1228 / F5228-01	-	19,943
			11.472	North Pacific Research Board	1310	-	62,363
			11.472	North Pacific Research Board	1403	-	83,182
			11.472	North Pacific Research Board	1405	-	42,933
			11.472	North Pacific Research Board	1418	-	13,808
			11.472	North Pacific Research Board	1505	-	28,179
			11.472	North Pacific Research Board	1512	-	3,711
			11.472	North Pacific Research Board	1533	-	29,928
		Coastal Zone Management Administration Awards2	11.482			6,146	7,683
		Operations and Maintenance of the Snow Cover Extent Climate Data Record (CDR)	11.000	Rutgers, The State University of New Jersey	5524 / PO S2147894 / 4-35626 /	-	24,308
		Production of Mean Annual Maximum Precipitation Grids using a specifically potimized PRISM System	11.000			-	32,267
		NPRB 2015 Graduate Research Award	11.000	North Pacific Research Board	Not Available	-	22,797
		Technical Support of NOAA-NMFS Moored Asset Deployment & Recovery	11.000			-	25,665
		<i>Total Department of Commerce</i>				405,127	7,865,600
Department of Defense		Air Force Defense Research Sciences Basic & Applied Scientific Research	12.800	University Politecnico diMilano	2013-1400	-	8,699
			12.300			232,718	3,478,843
			12.300	Cascadia Research Collective	411-1	-	13,471
			12.300	Cornell University	74642-10533	-	13,204
			12.300	Monterey Bay Aquarium Research Institute	1410457	-	188,328
			12.300	Pennsylvania State University	SA15-35	-	24,016
			12.300	Portland State University	203SID410	-	17,709
			12.300	University of California / San Diego	51331428 / PO S9000697	-	85,142
			12.300	University of Illinois UrbanaChampaign	2013-05335-02	-	22,044
			12.300	University of St. Andrews	SMC7-XOBO19 / 13374	-	30,650
			12.300	University of Washington	UWSC5110 (710505)	-	158,062
			12.300	University of Washington	UWSC7557 / 760313	-	29,458
			12.300	Woods Hole Oceanographic Institution	A100908	-	11,811
			12.300			-	401,400
		Basic Research Combating Weapons of Mass Destruction	12.351	University of Michigan	3003573212 (Prev 3002907474)	-	157,806

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		Basic, Applied, & Advanced Research in Science & Engineering	12.630			-	121,744
		Military Medical Research & Development Navigation Projects	12.420			-	942,451
		Procurement Technical Assistance for Business Firms	12.107			-	15,857
		Research & Technology Development	12.002	OnTo Technology LLC	2016-1833	-	217
			12.910	Galois Inc.	2014-1451	16,573	854,226
			12.910	Raytheon SAS	PO 9500013024	-	454,799
			12.910	University of California Los Angeles	1015 G PA090	-	210,104
		Offshore large whale satellite tagging in NWTRC	12.910			-	64,770
		Baleen (blue & fin) whale tagging in Southern California (leveraging JP03 & ONR tags) in support of marine mammal monitoring across multiple Navy training areas (SOCAL, NWTRC, GOA); Contract N62470-10-D03011	12.000	HDR One Company	0000002914	-	5,750
		Automated Assembly Planning: From CAD model to Virtual Assembly Process	12.000	HDR One Company	0000012206	-	18,534
		Task Order X032, 2016 Baleen (blue & fin) whale tagging in support of marine mammal monitoring across multiple Navy training areas in Southern California	12.000	UI Labs	0220150003	229,664	471,541
		Evaluation of the Impacts of Avian Predation on Salmonid Smolts from the Columbia and Snake Rivers, 2015	12.000	HDR One Company	1000300000028	-	10,408
		Phase IV: Provide support for the development of Precision Targeting Device (PTD) User Interface	12.000	Real Time Research	11462006-00460390 4	-	164,538
		In-Situ Enzymatic Oxidative Treatment for Perfluorinated Compounds	12.000	Johns Hopkins University	123919	-	29,876
		Testing for Source-Sink Dynamics of Migratory Birds in Fragmented Landscapes: A Multi-Method Approach	12.000	AECOM	14S-16529-GV01	-	9,672
		External Combustor for a JetCat Engine	12.000	Smithsonian Institute	14-SUBC-440-0000300419	-	-
		Odontocete Cetaceans: Quantifying Behavioral Ecology and Response to Predators Using a Multi-Species Approach	12.000	Universal Technology Corporation	15-7900-0006-10-C1	-	16,626
		HRU Design	12.000	Duke University	15-SERDP-1070	-	(1)
		Evaluation of Branched Hydrocarbons as Stimulants for In Situ Cometabolic Biodegradation of 1,4-Dioxane and its Associated Co-Contaminants	12.000	DOE Pacific Northwest National Lab	199062-261274	-	17,438
		Determination of Impacts on Juvenile Salmon from Predation by Double-crested Cormorants and Caspian Terns on East Sand Island	12.000	North Carolina State University	2012-2039-01	-	173,104
		An MPM-based Multiscale Framework for Simulations of Mesoscale Heterogeneous PBXs	12.000	Real Time Research	20150004-OSU	-	79,975
		Transparent Computing	12.000	Wasatch Molecular, Inc.	2015-01	-	59,995
		A Range Segment Upgrade Air Force Satellite Control Network with Smart Antennas & Cognitive Satellite Radios	12.000	Galois Inc.	2015-011	-	151,134
		Cooperative Autonomous Tunnel Mapping	12.000	InfoBeyond Technology LLC	2015-1399	-	38,101
		Caspian Tern Monitoring at Corps-Constructed Islands, 2015	12.000	Near Earth Autonomy	2015-2243	-	49,427
			12.000	Real Time Research	2015-2437	-	177,485

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		Implementation of the Inland Avian Predation Management Plan, 2016	12.000	Real Time Research	20160006-OSU	-	156,615
		Advanced Printed Circuit Board Design Methods for Compact Optical Transceiver	12.000	Voxtel, Inc.	2016-1364	-	44,995
		Active Transfer Learning of Latent Competencies	12.000	EduWorks	2016-502	-	25,005
		Scaled Assembly of Heterogeneous Nanomaterials (SAHN)	12.000	Voxtel, Inc.	2016-915	-	86,180
		Low-Cost, Large-Area, Fine Radiation Detection via Nanosemiconductors	12.000	University of Michigan	3002962241	-	(8,938)
		Concurrent In-Situ Cometabolic biodegradation of 1 4-Dioxane & Chlorinated Ethenes Using Recirculation	12.000	Haley Aldrich, Inc.	39730-001 through 39730-007	-	15,635
		Automated Assembly Planning for Elastic Cloud-Based Make	12.000	GE Global Research	401037722	-	6,386
		Demonstrating How Vulnerability Assessments Can Support Military Readiness	12.000	Natureserve	ACEOR004	-	(10)
		AFR 03-101-OS-02	12.000	Torc Robotics	AFR 03-101/OS-02	-	11,048
		Baleen (Blue & Fin) Whale Tagging in Southern California in Support of Marine Mammal Monitoring Across Multiple Navy Training Areas Contract N62470-10-D-3011	12.000	HDR One Company	CNV100031408	-	555,429
		Analysis of Baleen (Blue & Fin) Whale Tagging in Southern California in Support of Marine Mammal Monitoring Across Multiple Navy Training Areas, Contract 62470-15-D-8006	12.000	HDR One Company	CNV100031649	-	173,424
		Autonomous Passive Acoustic Monitoring of Marine Mammals in the Hawaii Range Complex (HRC), the Gulf of Alaska (GoA), and the Mariana Islands Range Complex (MIRC)	12.000	HDR One Company	CNV10031560	71,962	180,457
		Analysis of Regional Broadband Waveform Data for Ground-Truth Path Calibration & Source Characterization	12.000			41,455	202,129
		Simple performance-characterized automatic detection of marine mammal sounds	12.000			-	142,713
		Demonstration of commercially available high-performance PAM glider and profiler float	12.000			13,107	175,708
		Extension of operator interface for QED AHME vehicles	12.000	Quantum Engineering Design Inc.	NAVSEASubawardQ ED_OSU2016	-	28,881
		Direct 3D Printing of Soft Stretchy Rubber SpiderBots	12.000	CACI Inc.	P000011915	-	159,520
		Anomaly Detection at Multiple Scales	12.000	CACI Inc.	P000012572	-	91,192
		Advanced Ceramic High Speed and High Voltage Capacitors	12.000	Leidos Inc.	P010083638	-	158,204
			12.000	TRSX Technologies	PO 2049 141114-3263-01	-	18,317
		An operator interface for the QED AHME vehicles	12.000	Quantum Engineering Design Inc.	SBIR_Subawrd_QED_OSU_2016	-	75,000
		High-Speed Analog-to-Digital Converter Development	12.000	Voxtel, Inc.	W31P4Q-16-C-0086	-	15,439
		Benthic Data Collection and Analysis at Dredged Material Disposal Sites at the Mouth of the Columbia River	12.000			-	57,216
		Bioaugmentation for Aerobic Bioremediation of RDX-Contaminated Groundwater	12.000			-	9,566
		Characterization of the Fate and Biotransformation of Fluorochemicals in AFFF-Contaminated Groundwater at Fire/Crash Testing Military Sites	12.000			-	26,426

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		Mapping of Teuthivorous Whale Prey Fields	12.000			219,755	245,148
		Predicting, Measuring, and Monitoring Aquatic Invertebrate Biodiversity	12.000			222,181	363,351
		Flow-population models for tracking non-stationary changes in riparian and aquatic ecosystems	12.000			71,621	249,711
		Catalyzing Rapid Information Transfer Among Key Stakeholders on Per- and Polyfluoroalkyl Substances (PFASs) at Contaminated Military Sites	12.000			2,962	24,585
		Chinook and Steelhead Surrogate Planning	12.000			37,972	342,844
		System Optimizations and Performance Improvement on Heat Activated Cooling Systems	12.000	Wyle Laboratories Inc.	WSCS00068 TAT290	-	79,866
		NewFields Government Services Master Time Charter Agreement	12.000	New Fields Government Services LLC	2016-3086	-	318,890
	<i>Total Department of Defense</i>					1,159,970	12,809,346
Department of Education		Education Research, Development & Dissemination	84.305			137,199	967,032
		Fund for the Improvement of Postsecondary Education	84.116	University of Wisconsin-Milwaukee	163405511	-	2,355
		Mathematics & Science Partnerships	84.366	Lincoln County School District	2015-0725 PO#150230151	-	12,530
		Race to the Top Early Learning Challenge	84.412	Oregon Dept. of Education	10506	-	62,172
		Special Education Personnel Development to Improve Services	84.325			-	235,908
		Supporting Effective Instruction State Grants	84.367	Western Oregon University	TRSUB14.07	28,344	77,359
		Virginia Initiative for Science Teaching & Achievement	84.000	George Mason University	2013-1297	86,618	133,692
	<i>Total Department of Education</i>					252,161	1,491,048
Department of Energy		Advanced Research Projects Agency	81.135			217,237	1,100,537
			81.135	Gas Technology Institute	S618	-	18,663
			81.135	Power Partners Inc.	2015-2084	-	94,413
			81.135	Sharp Laboratories of America	2013-2150	-	103,024
			81.135	University of California Santa Barbara	KK1335	-	80,420
			81.135	University of Illinois, UrbanaChampaign	2013-00286-05	-	158,730
		Conservation Research & Development	81.086	University of Illinois, UrbanaChampaign	2013-05585-01	-	153,588
		Defense Nuclear Nonproliferation Research	81.113	University of Michigan	3003608372 (3003222385)	-	161,381
		Electricity Delivery & Energy Reliability, R&D and Analysis	81.122	University of Illinois, UrbanaChampaign	2015-06605-07	-	54,318
		Environmental Monitoring/Cleanup, Cultural & Resource Mgmt., ...	81.214	Oregon Dept. of Energy	14-025	-	20,388
		Environmental Remediation & Waste Processing & Disposal	81.104	Vanderbilt University	19067-S2	-	192,287
		Fossil Energy Research & Development	81.089	Purdue University	4105-58200	118,456	1,006,676
			81.089	Southern Methodist University	G001244-7500	-	71,572
		Nuclear Energy Research, Development & Demonstration	81.121			429,841	1,727,601
			81.121	George Washington University	14-S10	-	31,469

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			81.121	Idaho National Laboratory	00044868-00036	-	7,476
			81.121	Missouri University of Science and Technology	00043043-01	-	1,102
			81.121	University of California Berkeley	00009033/DE-NE0008460	-	4,365
			81.121	University of Utah	10031590-OSU	-	17,445
		Office of Science Financial Assistance	81.049			96,943	1,473,102
			81.049	Architectural Applications PC	2016-492	-	144,489
			81.049	Forest Concepts LLC	2014-2869	-	(70)
			81.049	Los Gatos Research, Inc.	2014-799	-	29,641
			81.049	OnTo Technology LLC	2012-DE-SC0006336	-	511
			81.049	Stanford University	60404141-109779A	-	63,527
			81.049	University of Notre Dame	202373	-	145,136
		Regional Biomass Energy	81.079	South Dakota State University	3TA160	-	14,836
			81.079	South Dakota State University	3TB160	-	15,178
		Renewable Energy Research & Development	81.087			976,684	3,316,066
			81.087	Dehlsen Associates LLC	PO 00529 / 2014-1697	-	11,932
			81.087	Humboldt State University Sponsored Programs Foundation	0007101423	-	114,482
			81.087	University of Florida	UFDSP00010838 Project 00110110	-	1
			81.087	University of Utah	10035375-OSU	-	49,454
			81.087	University of Washington	UWSC8279 / PO BPO004186	-	8,626
		Polymeric Microchannel Device Fabrication	81.000	Savannah River National Laboratory	0000181677	-	12,808
		High Performance Research Reactor Hydro-Mechanical Fuel Test Program	81.000	Idaho National Laboratory	00044868-00029	-	123,764
		Nuclear Non-Proliferation Detector Concept	81.000	Idaho National Laboratory	00044868-00034	-	13,134
		Oregon State University HTTF Testing Program	81.000	Idaho National Laboratory	00044868-00037	-	103,949
		Framework for Quantification of Risk and Valuation of Flexibility in the FCRPS	81.000			-	211,660
		Exp Ocean Survival of Salmonids	81.000			-	122,993
		Integral Ractor Containment Condensation Model and Experimental Validation	81.000	Idaho National Laboratory	00128748	110,869	101,214
		Active Interrogation Using Photofission Technique for Nuclear Materials Control and Accountability	81.000	Idaho National Laboratory	00138995	-	137,248
		Flow Testing of In-Pile Full-Sized Plate Experiments	81.000	Idaho National Laboratory	00145660-00001	-	248,865
		INL-NUC Collaboration LDRD Activities at Oregon State University - FY2015 - MOOSE Projects	81.000	Idaho National Laboratory	00145660-00003	-	29,390
		RELAP-7 Support Project	81.000	Idaho National Laboratory	00145660-00004	-	46,405
			81.000	Idaho National Laboratory	00145660-0005	-	57,169
		INL-NUC LDRD Activities at Oregon State University - FY2015 - Hybrid Energy Projects	81.000	Idaho National Laboratory	00145660-00006	-	107,452

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	Flow Testing of In-Pile Dispersion Mini-Plate Experiments	81.000	Idaho National Laboratory	00145660-007	-	3,348
	Benchmarking of Mammoth Simulations of TREAT	81.000	Idaho National Laboratory	00145660-008	-	33,341
	Flow Testing of ATR Full-Size Plate in Center Flux Trap Position-7 Experiments	81.000	Idaho National Laboratory	00145660-009	-	136,329
	Continued Development of State-of-the-Art Capabilities to Support TREAT Modeling and Simulation at Oregon State University	81.000	Idaho National Laboratory	00145660-012	-	51,551
	Stress Corrosion Cracking Testing in Supercritical Carbon Dioxide	81.000	Idaho National Laboratory	00145660-013	-	28,913
	HTTF Testing 2016	81.000	Idaho National Laboratory	00145660-014	-	384,753
	Microstructural Characterization Of Irradiated Fuels For the United States High Performance Research Reactor	81.000	Idaho National Laboratory	00145660-015	-	16,301
	Fuel Development	81.000	Idaho National Laboratory	00145660-016	-	3,410
	Development of a Modeling Method for Fluid-Structure-Interactions	81.000	Idaho National Laboratory	00145660-016	-	3,410
	Technical Support for Natural Resource Trustee for Post-Remedial Restoration of Hanford Nuclear Site	81.000	Oregon Dept. of Energy	15-102	-	75,180
	Oversight and Review on Wave Modeling Study for Resource Characterization	81.000	DOE Pacific Northwest National Lab	199062 Task # 249135	-	6,491
	Integrated Solar Thermochemical Reaction System for the High Efficiency Production of Electricity	81.000	DOE Pacific Northwest National Lab	199062-204923	-	403
		81.000	DOE Pacific Northwest National Lab	199062-267300	-	77,293
	Industrial Engineering Support for Low-Enriched Uranium Fuel Fabrication Process Flow	81.000	DOE Pacific Northwest National Lab	199062-229222	-	938
	PNNL Modular Adsorbing Tank Insert	81.000	DOE Pacific Northwest National Lab	199062-245102	-	3,777
	FORGE - Phase 1	81.000	DOE Pacific Northwest National Lab	199062-263797	-	95,402
	Industrial Engineering Support for Low-Enriched Uranium Fuel Fabrication Process Flow - Phase 2	81.000	DOE Pacific Northwest National Lab	199062-277389	-	58,482
	PNNL SunShot Cost Modeling	81.000	DOE Pacific Northwest National Lab	199062-289577	-	11,312
	Neutronic design of a new core for the WWR-SM reactor using commodity fuel pins	81.000	DOE Pacific Northwest National Lab	286719	-	34,797
	National Biofuel Feedstock Suitability Mapping	81.000	South Dakota State University	3TY676	-	118,508
	Development of a State-of-the-Art Computational Framework and Platform for the Optimal Control of Multi-Reservoir Systems Under Uncertainty	81.000			-	94,789
	Avian Predation on Juvenile Salmonids in the Lower Columbia River	81.000			81,857	489,308
	Ocean Survival of Salmonids	81.000			-	132,748
	Real-Time Load Composition Estimation	81.000			-	133,362
	Evaluate causes of hatchery & wild steelhead RRS	81.000			-	279,806
	Management of Ameriflux Network Project	81.000	Lawrence Berkeley National Lab	7117975	-	237,187

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		Higher Order Finite Element Methods for Thermal Radiation Transport	81.000	Lawrence Livermore National Laboratory	B611208	-	18,836
		Development and Analysis of Higher-Order Finite Element Thermal Radiation Transport Algorithms	81.000	Lawrence Livermore National Laboratory	B615444	-	52,288
		Target Making for NIFFTE collaboration	81.000	Lawrence Livermore National Laboratory	B616184	-	57,627
		Willamette River Basin Pacific lamprey habitat suitability study and decision support tool	81.000	Columbia River Inter-Tribal Fish Commission	C15-07 / PO C1500730	-	28,875
		Converting Natural Gas to Liquid Fuels by Low Energy Electrical Corona Discharge Processes	81.000			-	104,109
		TPC Target Preparation for 2014 Run Cycle	81.000	Lawrence Livermore National Laboratory	NO. B607377	-	47,440
		Materials Science of Actinides, EFRC	81.000	Sandia National Laboratories	PO 1256445	-	(220)
		Further Security Enhancements for the Oregon State TRIGA® Reactor	81.000	Sandia National Laboratories	PO 1276073	-	31,200
		WEC-Sim Development and Testing	81.000	Sandia National Laboratories	PO 1475498	-	116,509
		System Agnostic Switched Reluctance Linear Generator for WECs	81.000	Dehlsen Associates LLC	PO00583/2015-1642	-	26,146
		Novel Use of 4D Monitoring Techniques to Improve Reservoir Longevity and Productivity in Enhanced Geothermal Systems	81.000	URS Corporation	RES1100426 / 004	-	58,373
		Fiber-Optic Technology for Downhole Measurement of Potential Groundwater Impacts	81.000	URS Corporation	RES1100426 / 029	-	6,520
		Pacific Coast Carbon Storage Initiative	81.000	URS Corporation	RES1100426/014	-	(10,195)
		Characterization of Refractory Ceramic Electrodes for Magnetohydrodynamic Power Generation	81.000	URS Corporation	RES1100426/018	-	(14)
		BLOSOM Support/GOM IAM Risk Assessment	81.000	URS Corporation	RES1100426/028	-	58,041
		On the Study of Gravimeter for Reactor Safety Application	81.000	ISL Inc.	SUBcontract 10005 PO 1530127	-	37,513
		Predicting the hydrologic response of the Columbia River system to climate change	81.000	University of Washington	UWSC7391 / PO764398	-	36,943
		Center for Inverse Design: A New Approach to Material Science	81.000	DOE National Renewable Energy Lab	XCI-0-40426-01	-	(221)
		Center for Next Generation of Materials by Design: Incorporating Metastability	81.000	DOE National Renewable Energy Lab	XGJ-4-42247-01	-	231,783
		<i>Total Department of Energy</i>				2,031,887	15,295,570
	Department of Health & Human Services	Aging Research	93.866			89,666	702,233
			93.866	Boston University	4418-5 / 9500227912 / 4500000183	-	62,389
			93.866	Northern California Institute for Research and Education	PER1868 - 094604	-	104,011
			93.866	Oregon Health & Sciences University	1005142_ORSU	-	9,737
			93.866	Pennsylvania State University	5290-OSU-DHHS-2167	-	23,065
		Alcohol Research	93.273			-	64,984
		Allergy & Infectious Diseases Research	93.855			120,713	1,900,837

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		93.855	Aradigm Corporation	2014-1030	-	118
		93.855	J David Gladstone Institutes	R2352-A	-	42,728
		93.855	Mount Sinai School of Medicine	0254-3242-4609	-	(22,631)
		93.855	Mount Sinai School of Medicine	0254-3243-4609	-	246,163
		93.855	University of Chicago	FP053989	-	2,539
		93.855	University of Texas Southwestern	141405	-	82,503
		93.855	University of Texas Southwestern	150401 PO 0000000619	-	45,846
		93.855	University of Texas Southwestern	PO# RGC000000494 Sub# 140607	-	172,850
		93.855	University of Washington	UWSC7239 (755607)	-	128,706
	Applied Toxicological Research & Testing Arthritis, Musculoskeletal & Skin Diseases Research	93.114			-	247,003
		93.846			-	624,847
	Biomedical Research & Research Training	93.859			2,575	1,261,357
		93.859	Northwestern University	SP0031307- PROJ0008367	-	55,708
		93.859	Texas A & M University	02-S150270	-	11,313
		93.859	Texas A & M University	02-S150271	-	10,472
		93.859	Texas A & M University	02-S150274	-	22,048
		93.859	University of California Santa Barbara	KK1406	-	31,805
		93.859	Virginia Tech	431880-19201	-	17,011
		93.859	Wake Forest University/PHS	WFUHS13114	-	-
	Cancer Cause & Prevention Research	93.393			-	79,513
		93.393	Brown University Texas A & M	00000630	-	(10)
		93.393	University Texas A & M	23-S152303	-	284,293
		93.393	University	23-S152317	-	1,359
		93.393	University of Oregon Oregon Health & Sciences University	215370A	-	41,141
	Cardiovascular Diseases Research Centers for Research & Demonstration for Health Promotion ...	93.837		1005697_OSU	-	10,092
		93.135			55,000	276,058
	Child Health & Human Development Extramural Research	93.865			67,517	445,666
		93.865	University of Delaware	37472 / 39825	-	11,579
		93.865	Wake Forest University	WFUHS 112761	-	6,263
	Diabetes, Digestive, & Kidney Diseases Extramural Research	93.847			-	824,639
	Discovery & Applied Research for Tech Innovations to Improve Health	93.286			-	59,426
		93.286	Georgia Regents University	28717-2	-	19,141
	Environmental Health	93.113			198,084	2,136,639
		93.113	Cornell University	76146-10616	-	31,041
		93.113	Omega Optics, Inc.	OSU2014-996	-	71,239
		93.113	Pennsylvania State University	4597-OSU-DHHS- 9964	-	57,813
		93.113	University of Miami	663962	-	20,120

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			93.113	University of New Mexico	3RK26	-	121,360
		Epidemiology & Laboratory Capacity for Infectious Diseases	93.323	Oregon Health Authority	149324	-	13,411
		Improving Capability of Tribal Government to Regulate Envir Quality	93.581	Confederated Tribes of Siletz Indians of Oregon	2015-1842	-	31,778
		Injury Prevention & Control Research & State/Community Based	93.136			66,211	208,808
		Maternal & Child Health Federal Consolidated Programs	93.136	University of Rochester	416619-G/416724	-	31,126
		Mental Health Research	93.110			-	662
			93.242			65,400	166,555
			93.242	Dartmouth College	909R213	-	52,892
			93.242	University of Southern Florida	6405-1101-00-A	-	7,759
		National Center for Research Resources	93.389			-	-
		NEHS Superfund Hazardous Substances Basic Research & Education	93.143			73,421	3,260,218
		Nursing Research	93.361	Duke University	2038890	-	10,699
		Occupational Safety & Health	93.262			13,228	387,115
			93.262	Eastern Washington University	2015-1279 / EWU# SR0008429	-	7,775
			93.262	Eastern Washington University	2016-1426	-	38,825
			93.262	Northeastern University	500326-78052	-	6,467
			93.262	Oregon Health & Sciences University	1005580_ORSU_KINCL /GCROE0200B	-	7,119
		Oral Diseases & Disorders Research	93.262	University of Washington	763160	-	17,156
			93.121			12,356	153,500
			93.121	Mayo Clinic	PO 64778593 / ORE-181199-04	-	45,571
		PPHF Geriatric Education Centers Research & Training in Complementary & Integrative Health	93.969	Oregon Health & Sciences University	ASONO0303- OSU/ 9006177_OSU	-	10,134
			93.213			-	213,123
			93.213	Oregon Health & Sciences University	1003333_OSU	-	137,678
		Research Infrastructure	93.213	University of Illinois, Chicago	2010-02881-03	-	79,237
			93.351			54,545	870,753
			93.351	Oregon Health & Sciences University	1002942_OSU	-	146,689
		Research on Healthcare Costs, Quality & Outcomes	93.351	University of Oregon	215450A	-	39,624
		Research Related to Deafness & Communication Disorders	93.226			216,937	647,062
			93.173				(122)
		Trans-NIH Research	93.173	State University of New York	R879441	-	7,356
		Lipidomics analysis of human atopc dermatitis (AD)	93.310			83,700	332,156
		NIOSH GoodNanoGuide	93.000	National Jewish Health	HHSN27220100020 C	-	(1)
			93.000			-	(10)
<i>Total Department of Health and Human Services</i>						<u>1,119,353</u>	<u>17,276,129</u>

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Department of Homeland Security		Centers for Homeland Security	97.061	University of North Carolina, Chapel Hill	5101654	-	2,529
		National Nuclear Forensics Expertise Development	97.130	South Carolina Universities Research & Education Foundation	NF13009	-	19,971
		Research, Development, Testing, Evaluation, & Demonstration ...	97.130	University of South Carolina	MUSC14-012	-	89,653
			97.077			16,743	284,758
<i>Total Department of Homeland Security</i>						16,743	396,911
Department of the Interior	Alaska Coastal Marine Institute		15.421	University of Alaska	PO FP40112 / UAF 14-0023	-	13,660
			15.421	University of Alaska	UAF 16-0032 / PO P0496915	-	3,222
	Assistance to State Water Resources Research Institutes		15.805			-	133,268
	Bureau of Ocean Energy Management Environmental Studies		15.423			-	204,261
			15.423	University of California at Santa Cruz	A15-0068-S003-S0184297	-	20,989
			15.423	University of Texas at Austin	UTA13-000307	-	11,414
	Challenge Cost Share		15.238			-	81,092
	Co-op Research & Training Resources of National Park System		15.945			11,195	385,527
	Cooperative Landscape Conservation		15.669			-	23,074
	Cooperative Research Units		15.812			-	2,113,006
			15.812	New Mexico State University	Q01733	-	4,919
	Earthquake Hazards Program Assistance		15.807			-	17,405
	Endangered Species Conservation Recovery Implementation		15.657			8,500	14,146
	Environmental Quality & Protection Resource Mgmt.		15.236			-	142,268
	Fish & Wildlife Management Assistance		15.608			-	147,058
	Fish, Wildlife & Plant Conservation Resource Management		15.231			-	162,605
	Forests & Woodlands Resource Management		15.233			-	157,888
	Invasive Species		15.652			-	22,576
	Migratory Bird Monitoring, Assessment & Conservation		15.655			-	39,385
	National Climate Change & Wildlife Science Center		15.820			1,490,099	2,010,331
	National Cooperative Geologic Mapping		15.810			-	34,881
	National Fish & Wildlife Foundation		15.663	National Fish and Wildlife Foundation	0103.14.045477	20,435	105,778
			15.663	South Dakota State University	3TB818	-	400
	National Land Remote Sensing Education Outreach & Research		15.815	AmericaView	AV13-OR01	-	14,489
	Research Grants		15.650			-	91,862
	Tribal Wildlife Grants		15.639	Native Village of Eyak	2015-1448	-	40,041
	US Geological Survey Research & Data Collection		15.808			-	617,075
	Wildland Fire Research & Studies		15.232			37,449	396,711
			15.232	Portland State University	204JET450	-	16,895
	Wildland Urban Interface Community Fire Assistance		15.228			-	3,283

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	Cooperative Assessment of Fish Health Issues Surrounding Broodstock Losses & Juvenile Mortality for the Deschutes River Basin Spring Chinook Hatcheries	15.000			-	22,700
	Development and Delivery of an Online Graduate Course in Structure	15.000			-	11,156
	Acoustic Surveys for Marbled Murrelets on the Reed Creek Parcel Managed by the Confederated Tribes of the Siletz Indians	15.000			-	97,746
	Klamath River Fish Health Studies	15.000			-	-
		15.000			-	23
	Assessing Climate Refugia and Connectivity for Desert Bighorn Sheep	15.000			-	5,462
	Pikas in Peril: Multi-Regional Vulnerability Assessment of a Climate-Sensitive Sentinel Species	15.000			-	-
	VAR-FED VMRC	15.000			-	265
	Sagebrush State and Transition Model Mapping Test	15.000	Nature Conservancy	ORFO-10/26/15-01sb	-	2,466
	Evaluating Greater Sage-Grouse Response to Landscape Level Removal of Encroaching Juniper	15.000	Pheasants Forever Inc.	PF-2014-13_Oregon SSA	-	45,548
	Evaluating Greater Sage-Grouse Responses to Landscape Level Removal of Encroaching Juniper	15.000	Pheasants Forever Inc.	PF-2016-03	-	77,865
<i>Total Department of the Interior</i>					1,567,678	7,292,740
Department of Transportation	Air Transportation Centers of Excellence	20.109			-	72,313
	Biobased Transportation Research	20.761			329,561	706,916
	Formula Grants for Rural Areas	20.509	Oregon Dept. of Transportation	17384-15-08	-	103,165
	Highway Research & Development	20.200			-	61,880
		20.200	Alaska Dept. of Transportation	AKSAS 76287 FED 400152	-	22,663
		20.200	National Academy of Sciences	SUB0000788 HR20-05 (47-16)	-	14,694
		20.200	Purdue University	16045319	-	5,995
		20.200	Purdue University	4202-71830	-	34,028
		20.200	University of Nevada - Reno	UNR-15-37	-	89,121
	University Transportation Centers	20.701	University of Washington	739437-1	-	19,967
		20.701	University of Washington	739437-3	-	645
		20.701	University of Washington	BPO#002600/UWSC 8230	-	264,063
	Turbulent Flame Speed of Conventional and Alternative Jet Fuels Project	20.000			-	53,595
	Tools to model present and projected freshwater fluxes in high-latitude regions and application to Cook Inlet, AK	20.000	Oil Spill Recovery Institute	14-10-07	-	20,573
	Linking hydrological and oceanographic models in Prince William Sound, Alaska	20.000	Oil Spill Recovery Institute	15-10-04	-	28,007
	Subcontract - Improving Specifications to Resist Frost Damage in Modern Concrete Mixtures (Part II)	20.000	Oklahoma State University	1-552974-01 / P0040533	-	49,177
	Performance of Deicing Salts and Deicing Salt Cocktails	20.000	Purdue University	16045317	-	64,977
	Concrete Patching Materials and Techniques and Guidelines for Hot Weather Concreting	20.000	Purdue University	16045321	-	6,902
	Toward Effective Design Treatments for Right-Turns at Intersections with Bicycle Traffic	20.000	Oregon Dept. of Transportation	17384/WO 14-01	-	(1)

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	Imaging tools for Evaluation of Gusset Plate Connections in Steel Truss Bridges	20.000	Oregon Dept. of Transportation	17384-12-05	-	49,163
	High Strength Steel Reinforcement for Bridges	20.000	Oregon Dept. of Transportation	17384-14-02	-	35,679
	Effects of High Strength Steel and Steel Casing on the Response of Drilled Shafts	20.000	Oregon Dept. of Transportation	17384-14-07	-	113,946
	Smart Red Clearance Extensions to Reduce Red Light Running Crashes	20.000	Oregon Dept. of Transportation	17384-15-02	22,020	100,859
	Titanium For Strengthening Existing Reinforced Concrete Bridges	20.000	Oregon Dept. of Transportation	17384-15-03	-	161,042
	Risk Factors for Pedestrian and Bicycle Crashes	20.000	Oregon Dept. of Transportation	17384-15-06	-	18,861
	Evaluation of Radar Speed Display for Mobile Maintenance Operations	20.000	Oregon Dept. of Transportation	17384-15-07	-	10,679
	Potential for Freight Mode Shifting in Oregon	20.000	Oregon Dept. of Transportation	17384-15-12	-	29,741
	Effective Use of Geospatial Tools in Highway Construction	20.000	Parsons Brinckerhoff Inc.	182533	-	35,071
	Work Zone Intrusion Alert Technologies Assessment and Practical Guidance	20.000	Oregon Dept. of Transportation	30530-16-02	-	88,719
	Truck Parking: An Emerging Safety Hazard to Highway Users	20.000	Oregon Dept. of Transportation	30530-16-03	-	77,954
	Improved Safety and Efficiency of Protected/Permitted Right Turns in Oregon	20.000	Oregon Dept. of Transportation	30530-16-04	-	23,672
	Use of Additional Lighting for Traffic Control and Speed Reduction in Work Zone	20.000	Oregon Dept. of Transportation	30530-16-06	-	67,864
	Adjusting Asphalt Mixes For Increased Durability And Implementation Of a Performance Tester To Evaluate Fatigue Cracking of Asphalt Concrete	20.000	Oregon Dept. of Transportation	30530-16-07	-	37,168
	Construction of Efficient, Cost-Effective and Sustainable Maintenance Facilities	20.000	Oregon Dept. of Transportation	30530-16-08	-	75,943
	16-002 Enhancing Landslide Inventorying, Hazard Assessment and Asset Management using LiDAR	20.000	Oregon Dept. of Transportation	30530-16-09	-	48,217
	BINDER-GRADE BUMPING AND HIGH BINDER CONTENT TO IMPROVE PERFORMANCE OF RAP-RAS MIXTURES	20.000	Oregon Dept. of Transportation	30530-16-10	-	34,431
	Development of Titanium Seismic Retrofits for Deficient Concrete Columns	20.000	Oregon Dept. of Transportation	30530-16-11	-	185,140
	Development of Forecasting and Visualization Tools for Displaying Roadway Links, Traffic, and Pavement Condition Data	20.000	MacroSys LLC California Department of Transportation	6113D000200002OS U	-	30,361
	Assessment of Soil Arching Factor for Retaining Wall Pile Foundations (Phase 1)	20.000	California Department of Transportation	65A0497	-	72,785
	Phase 2 Validation of Inclusive and Universal Design Guidelines for High Speed Passenger Cars	20.000			-	46,179
	Guidelines for Use of Mobile LIDAR in Transportation Applications	20.000	National Academy of Sciences	HR 15-44	7,500	25,042
	NCHRP 03-99: Development and Application of Access Management Guidelines	20.000	National Academy of Sciences	HR-03-99	1,037	1,383
	Drained Timber Pile Ground Improvement For Liquefaction Mitigation	20.000	National Academy of Sciences	NCHRP-180/POSUB0000581	-	11,495
	Cascadia Lifelines Research Consortium Public Membership	20.000			-	138,881

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		Assessing, Coding, and Marking of Highway Structures in Emergency Situations	20.000	National Academy of Sciences	SUB0000413 HR 14-29	50,881	126,397
		Manual to Improve Rail Transit Safety at Platform/Train and Platform/Guideway Interfaces	20.000	National Academy of Sciences	TCRP A-40/SUB0000436	17,381	89,707
<i>Total Department of Transportation</i>						428,380	3,355,059
Environmental Protection Agency		Great Lakes Program	66.469	Central Michigan University	2011-1086	-	76,992
		Nonpoint Source Implementation Grants	66.460	Oregon Dept. of Environmental Quality	109-14	-	43,135
		P3 Award: National Student Design Competition Sustainability	66.516			-	16,420
		Regional Wetland Program Development Grants	66.461	Portland State University	203KAG402	-	10,897
		Science to Achieve Results Fellowship	66.514			-	36,431
		Science to Achieve Results Research	66.509			42,391	503,037
			66.509	Arizona State University	14-498	-	84,409
		Implementation of an Oregon Stream Function Assessment Method (SFAM) tool on the Oregon Explorer portal	66.000	Oregon Division of State Lands	17-122-12801	-	2,693
		Modeling of Multi-Pollutant Profiles w/ Applications to RIOPA Study Data & to Indicators of Adverse Birth Outcomes Using Data from the UCLA Environment and Pregnancy Outcome Study	66.000	Health Effects Institute	4783-RFA09-1/09-4	-	6,475
		Dunham/Campbell EPA STAR Fellowship	66.000			-	17,559
<i>Total Environmental Protection Agency</i>						42,391	798,048
National Aeronautics & Space Admin		Aeronautics	43.002			-	100,114
			43.002	Baylor College of Medicine	NCC 9-58-329 / CA04201	-	45,846
			43.002	Jet Propulsion Lab	1450091	-	91,895
			43.002	Jet Propulsion Lab/CA Inst. of Technology/NASA	1249878	-	25,141
		Education	43.008			-	35,363
		Science	43.001			2,966,185	6,665,724
			43.001	East West Center	HC13373	-	22,269
			43.001	Harvard University	130785-5086565	-	38,779
			43.001	Southwest Research Institute	F99004AU	-	44,742
			43.001	University of Maryland	6836-Z6814001	-	39,881
			43.001	University of Texas at Austin	UTA12-001012	-	107,092
			43.001	University of Washington	732969	-	3,238
			43.001	Woods Hole Oceanographic Institution	A101009	-	29,576
			43.001	Woods Hole Oceanographic Institution	A101010	-	75,629
			43.001	Woods Hole Oceanographic Institution	A101163	-	18,425
			43.001	Woods Hole Oceanographic Institution	A101248	-	31,763
		Space Operations	43.007			-	109,003
		Acoustic Emission-Based Health Monitoring of Composite Aerospace Structures	43.000	University of Utah	10028917	-	79,075

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		Mesoscale and LES Modeling for Atmosphere Characterization for the InSight Mission	43.000	Jet Propulsion Lab	1495237	-	28,497
		Landing Site Characterization for the Mars 2020 Rover Mission: Atmospheric Modeling for EDL	43.000	Jet Propulsion Lab	1512906	-	154,667
		Atmospheric Mesoscale Modeling in Support of Precision Landings on Mars	43.000	Jet Propulsion Lab	1517873	-	20,000
		Discovering a Decade of Coastal Winds from Ocean Wind Scatterometers	43.000	Jet Propulsion Lab	1531731	-	9,055
		Failure-Resilient Design of Complex Systems Under Uncertainty	43.000	Jet Propulsion Lab	1533246	-	21,203
		Rapidscat observations of ocean-atmosphere coupling along the mid-latitude storm track	43.000	Jet Propulsion Lab	1540785	-	62,282
		Support for Multi-angle Imaging SpectroRadiometer (MISR) Science Team Activities	43.000	Jet Propulsion Lab	1540933	-	12,366
		Ultrasensitive Analyzer for Realtime, In-Situ Airborne and Terrestrial Measurements of OCS, CO2, and CO	43.000	Los Gatos Research, Inc.	2013-2691	-	18,568
		Microchip Capillary Electrophoresis for In Situ Water Analysis	43.000	Leiden Measurement Technology LLC	NASA - NNX15CP60CP-1	-	29,200
		Assessing the Capabilities of the Ocean Radiometer for Carbon Assessment for the PACE Mission	43.000			-	27,827
		National Space Grant College and Fellowship Program: (Space Grant 2014)	43.000			32,161	294,605
		Enhanced Coastal Wind Analysis in Upwelling Regions	43.000			-	-
		Covariability of Wind and Sea Surface Height in the Tropical Pacific	43.000			-	137
		Mesoscale Coupled Ocean-Atmosphere Interaction from Scatterometry and Coupled Models	43.000			-	3,755
		The Phytoplankton Carbon Project	43.000			14,159	81,751
		Error analysis of MAIAC algorithm for studies of vegetation dynamics over tropics	43.000			-	29,276
		High Average Power Microchip Lasers	43.000	Voxtel, Inc.	VPL4923A	-	35,007
		Airborne Microwave Observatory of Subcanopy and Subsurface (AirMOSS)	43.000	University of Southern California	Y88256	-	39,092
		<i>Total National Aeronautics & Space Administration</i>				3,012,505	8,430,843
	National Endowment for the Humanities	Grants to States	45.310	Oregon State Library	14-07-2A/LS-00-14-0038	-	11,141
		National Leadership Grants	45.312			30,089	59,657
		Promotion of the Humanities Research	45.161	University of Nebraska	25-1620-0002-005	-	(4)
		<i>Total National Endowment for the Humanities</i>				30,089	70,794
	National Science Foundation	Biological Sciences	47.074			377,321	5,793,743
			47.074	Carnegie Institution of Washington	6-10548-02	-	259,779
			47.074	American Museum of Natural History	4-2011	-	10,538
			47.074	Cold Spring Harbor Lab	52930113///513 /PO 920802-SV	-	484,766
			47.074	Colorado State University	G-03811-1	-	7,677
			47.074	Portland State University	204EST471	-	103,327
			47.074	Portland State University	205SCH504	-	71,375

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			47.074	University of Hawaii	POZ795332/Z925587	-	66,544
			47.074	University of Pennsylvania	567263 / 10048105 / 16286	-	6,677
			47.074	University of Washington	754769 / UWSC7195	-	6,429
			47.074	Virginia Tech	478784-19201	-	(2,598)
			47.074	Yale University	C13D11578 (D01820)	-	10,396
		Computer & Information Science & Engineering	47.070			547,296	3,796,698
			47.070	University of Illinois, UrbanaChampaign	2013-04017-01	-	33,296
			47.070	University of Southern California	43854715	-	113,809
			47.070	University of Utah	10034633-OR	-	64,027
		Education & Human Resources	47.076			170,516	5,000,272
			47.076	Denver Museum of Nature and Science	2015-784	-	27,827
			47.076	Harvard University	5069094-118114	-	18,461
			47.076	Oregon Museum of Science & Industry	E13-39	-	9,555
			47.076	Oregon Museum of Science & Industry	ICA Dierking PO#98634	-	11,678
			47.076	Oregon Museum of Science & Industry	PO 1000070/E16-0027	-	7,108
			47.076	Swinomish Indian Tribal Community	420 20 43 00 NSF AISL	-	7,152
			47.076	University of Washington	756251	-	109,686
			47.076	University of Washington	UWSC7971/BPO276 2	-	83,863
			47.076	University of Wisconsin	563K614	-	89,913
			47.076	University of Wisconsin - Madison	446K434	-	30,332
			47.076	Willamette University	WU-NSFDUE-01-2015	-	24,805
		Engineering Grants	47.041			123,118	4,182,805
			47.041	Agricultural & Environmental Geographic Information Sys, Ltd	2014-1669	-	(27,103)
			47.041	Carnegie Mellon University	1121711-277808	-	76,924
			47.041	Carnegie Mellon University	1121858-295904	-	9,999
			47.041	Colorado State University	G-00973-1	12,921	105,480
			47.041	CSD-Nano	2013-1389	-	33,039
			47.041	OnTo Technology	2015-2247	-	37,219
			47.041	University of Colorado	1549503	-	5,635
			47.041	University of Idaho	GNK698-SB-001 / PO P0044264	-	34,028
			47.041	University of Washington	UWSC8669	-	40,700
			47.041	Washington State University	10353 G002834	-	5,282
			47.041	Waste2Watergy	2015-2535	-	69,620
		Geosciences	47.050			623,325	16,967,376
			47.050	Columbia University	6 (GG009393-01)	-	96,337
			47.050	Columbia University	7 (GG008855) / PO G05335	15,640	130,219
			47.050	Consortium for Ocean Leadership	SA 12-11 WBS 1.8.2	-	44,707
			47.050	Consortium for Ocean Leadership	SA 12-11/WBS 1.8.4.1.4	-	(8,295)
			47.050	Consortium for Ocean Leadership	SA 12-11/WBS 5.7.5	-	278,040

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	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 5.7.5.6.2	-	195,093
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 5.7.5.6.3	-	109,397
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 6.1.0	-	499,407
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 6.3.10.2.8	-	32,732
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 7.1.0	-	340,614
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 7.2.6.1.8	-	710,418
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 7.2.6.2.8	-	34,346
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 7.2.6.4.8	-	28,551
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 7.2.6.5.8	-	125,225
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 7.3.1	-	71,811
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 7.3.7.1.8	-	160,394
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 7.3.7.2.8	-	895,393
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 7.3.7.3.8	-	56,906
	Consortium for Ocean Leadership	47.050		SA 12-11/WBS 7.4.6.1.8	-	26,312
	Consortium for Ocean Leadership	47.050		SA12-11 WBS 1.8.4	-	36,532
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 1.8.3.3	-	-
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 1.8.4.1	-	308
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 1.8.4.1.5	-	(3)
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 1.9	-	23,870
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 2.8.1.4	-	268,439
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 2.8.1.4.4	-	80,101
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 5.7.5.6	-	402,824
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 6.3.10.3.8	-	2,919
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 6.3.7	-	33,363
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 6.3.7.2.8	-	137,653
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 6.3.7.3.8	-	13,727
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 6.3.8.1.8	-	192,912
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 6.3.8.2.8	-	422,503
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 6.3.8.3.8	-	115,900
	Consortium for Ocean Leadership	47.050		SA12-11/WBS 6.3.9.1.8	-	31,282
	Consortium for Ocean Leadership	47.050		T340B11	-	1,109
	Incorporated Research Institutions for Seismology	47.050		05-OSU-SAGE	250,976	782,408
	Oregon Health & Sciences University	47.050		GSTCN0106S1	-	595,222

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			47.050	Oregon Health & Sciences University	GSTCN0108S8	-	120,063
			47.050	Pennsylvania State University	4929-OSU-NSF-1726	-	11,945
			47.050	SRI International	119-000243	92,098	176,306
			47.050	University of Alaska	PO FP40101 / UAF 13-0131	-	39,534
			47.050	University of Arizona	4010190 / PO 241794	-	78,605
			47.050	University of Colorado	1550972 / PO 1000294288	-	6,263
			47.050	University of Colorado - Boulder	1552512	-	77,510
			47.050	University of Hawaii	MA130035 / PO Z10048082	-	49,982
			47.050	University of Oregon	208991E	-	23,239
			47.050	University of Southern California	59209190	-	57,234
			47.050	University of Utah	10037588-OR	-	35,743
			47.050			-	795,300
		Mathematical & Physical Sciences	47.049			1,525,947	5,386,691
			47.049	Missouri University of Science and Technology	00037161-01	-	11,333
			47.049	University of Delaware	27187	-	10,298
			47.049	Willamette University	WU-NSFRCN-04-2013	-	9,649
		National Science Foundation	47.082			-	58,505
		Office of International Science & Engineering	47.079			656,155	934,173
		Polar Programs	47.078			539	483,540
		Social, Behavioral, & Economic Sciences	47.075			-	185,368
		Design of Three Regional Class Research Vessels	47.000			-	33,931
		Oregon Regional MATE ROV Program	47.000	Monterey Peninsula College	2015-FP-2278	-	740
		2015/16 Oregon Regional MATE ROV Program	47.000	Monterey Peninsula College	2016-1235	-	3,000
		Collaborative Research: Upper ocean heat flux in the Eurasian Basin: Oceanic thermodynamic forcing contributing to Arctic ice loss	47.000	Earth and Space Research Consortium for	PO 2011-173 OSU	-	38,910
		IODP Onshore Scientist Expedition 347	47.000	Ocean Leadership Consortium for	PO T347A11	-	3,650
		Microbiological Support on IODP Expedition 349 - South China Sea	47.000	Ocean Leadership Consortium for	PO T349A11	-	11,348
		Salary Support Koppers for IODP Expedition 349	47.000	Ocean Leadership Consortium for	PO T349B11	-	2,407
		IODP Shipboard/Onshore Scientist Expedition 350	47.000	Ocean Leadership Consortium for	PO T350A11	-	11,680
		Continental Crust Formation at intraoceanic arc: foundations, inception, and early evolution	47.000	Ocean Leadership Consortium for	PO T351A11	-	11,854
		IODP Shipboard Scientist Expedition 352	47.000	Ocean Leadership Consortium for	PO T352A11	-	9,760
		TeachEngineering Collection Extension & Support '14	47.000	University of Colorado	PO1000289303	-	29,824
		Assessing the learning gains of manufacturing students in an integrated hands-on curriculum	47.000	Wayne State University	PO704764 - PO747879	-	8,008
		Integrated Ocean Drilling Program (IODP) Expedition 344, Costa Rica Seismogenic Project (CRISP-A2)	47.000	Ocean Leadership Consortium for	T344A11	-	828
		International Ocean Discovery Program Expedition 354 Bengal Fan	47.000	Ocean Leadership Consortium for	T354A11	-	14,992
		<i>Total National Science Foundation</i>				<u>4,395,852</u>	<u>53,489,028</u>

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	Nuclear Regulatory Commission	Scholarship & Fellowship	77.008			-	139,023
		Maintenance and Development of the VARSKIN 5 Computer Code	77.000			-	63,701
	<i>Total Nuclear Regulatory Commission</i>					-	202,724
Total Research and Development Cluster						17,073,227	163,863,320
Childcare and Development Fund							
	Department of Health & Human Services	Child Care & Development Block Grant	93.575	Oregon Dept. of Human Services	148829	-	44,019
			93.575	Oregon Dept. of Human Services	151070	-	5,754
			93.575	Oregon Dept. of Education	10439	-	118,121
			93.575	Oregon Dept. of Education	10506	-	73,518
Total Childcare and Development Fund Cluster						-	241,412
Economic Development							
	Department of Commerce	Economic Adjustment Assistance	11.307	Built Environment and Sustainable Technologies	07-79-07257	-	5,606
			11.307	Built Environment and Sustainable Technologies	CG-SOW-2015-OSU-EcoPro Polymer	28,000	63,020
			11.307	Portland Development Commission	2013-2459	-	(74)
			11.307	Portland Development Commission	2014-1585	-	24,049
Total Economic Development Cluster						28,000	92,601
Fish and Wildlife							
	Department of the Interior	Wildlife Restoration & Basic Hunter Education	15.611	Alaska Department of Fish and Game	CT 160001029 / 160001422	-	24,159
			15.611	Oregon Dept. of Fish & Wildlife	080-16	-	12,818
			15.611	Oregon Dept. of Fish & Wildlife	144-15	-	160,378
			15.611	Oregon Dept. of Fish & Wildlife	267-13	-	56,234
			15.611	Oregon Dept. of Fish & Wildlife	497-14	-	138,267
Total Fish and Wildlife Cluster						-	391,856
Highway Planning							
	Department of Transportation	Highway Planning & Construction	20.205	Cal Poly Corporation	2015-9-53391	-	28,618
			20.205	California Department of Transportation	65A0559	19,568	80,440
			20.205	Oregon Dept. of Transportation	17384-13-09	-	28,009
			20.205	Oregon Dept. of Transportation	17384-15-04	-	53,114
			20.205	Oregon Dept. of Transportation	26828-5	-	247,052
			20.205	Oregon Dept. of Transportation	30530-16-05	-	27,272
			20.205	Oregon Dept. of Transportation	RS-15-77-01	-	95,316
			20.205	University of California Berkeley	00008910/30286	-	9,305
		Recreational Trails	20.219	Oregon Dept. of Parks & Recreation	RT14-023	-	11,604
Total Highway Planning Cluster						19,568	580,730

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Highway Safety							
	Department of Transportation	National Priority Safety	20.616	Oregon Dept. of Transportation	M9MT-16-50-02	-	40,000
		State & Community Highway Safety	20.600	Oregon Dept. of Transportation	RS-16-77-01	-	123,811
			20.600	Oregon Dept. of Transportation	SC-15-35-05 TMO	-	6,086
			20.600	Oregon Dept. of Transportation	SC-16-35-05 TMO	-	4,588
Total Highway Safety Cluster						-	174,485
IDEA							
	Department of Education	Special Education Grants	84.027	Lebanon Community School District	2015-1090	-	1,613
			84.027	Lebanon Community School District	2015-2681	-	29,487
Total IDEA Cluster						-	31,100
SNAP							
	Department of Agriculture	State Admin Matching for SNAP	10.561	Oregon Dept. of Human Services	146694	-	17,885
			10.561	Oregon Dept. of Human Services	149825	-	51,629
Total SNAP Cluster						-	69,514
TRIO							
	Department of Education	TRIO-Student Support Services	84.042			-	344,689
Total TRIO Cluster						-	344,689
NON-CLUSTERED GRANTS							
	Agency for International Development	Cooperative Development	98.002	Arizona State University	15-652	-	77,585
		AgMIP-CCAFS Collaboration on Crop Insurance	98.000	International Center for Tropical Agriculture	C-033-15	-	34,803
Total Agency for International Development						-	112,388
	Corp for National & Community Service	Program Development & Innovation Grants	94.007	Campus Compact of the Mountain West	2016-1607	-	1,046
	Department of Agriculture	Agriculture & Food Research Initiative (AFRI)	10.310			-	14,250
		Basic & Applied Research	10.001			-	22,873
		Beginning Farmer & Rancher Development	10.311			46,336	139,463
		Child & Adult Care Food	10.558	Oregon Dept. of Education	02-15002	-	41,853
		Cooperative Extension Service	10.500			-	272,345
			10.500	Central Oregon Intergovernmental Council	15-2078	-	9,000
			10.500	Kansas State University	S15084	-	6,678
			10.500	Kansas State University	S16065	-	8,514
			10.500	University of Idaho	BJKL79-SB-002	-	(31)
			10.500	University of Nebraska	25-6365-0040-606	-	17,969
			10.500	University of Nebraska	25-6365-0040-703	-	10,168
			10.500	University of Wyoming	1002203	-	1,497
			10.500	Washington State University	108815 G003341	-	7,422
			10.500	Washington State University	108815 G003425	-	7,828

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		10.500			-	4,793,316
	Cooperative Forestry Assistance	10.664			-	112,675
			Montana Department of Natural Resources and Conservation	CSC-13-002	-	28,098
	Crop Protection & Pest Management	10.664			-	194,914
	Environmental Quality Incentives	10.329			-	22,258
		10.912	Ecological Farming Association	2015-2471	-	7,333
	Farmer's Market & Local Food Promotion	10.168			-	29,495
	Forestry Research	10.652			-	40,698
	Homeland Security Agricultural	10.304			-	
	Institution Challenge Grants	10.217	University of Missouri	C00041710-2	-	18,591
			North Dakota State University	FAR0021476	-	500
	Integrated Programs	10.303	Washington State University	123479_G003380	-	42,933
		10.303	Washington State University	123484_G003397	-	18,354
	Multicultural Scholars Grants	10.220			-	116,053
	National Food Safety Training, Education, Extension	10.328			-	35,600
	Organic Agriculture Research & Extension Initiative	10.307			-	22,139
		10.307	Cornell University	64325-9780	-	3,299
		10.307	Pennsylvania State University	4736-OSU-USDA- 0638	-	7,771
		10.307	Purdue University	8000064233-AG	-	96
		10.307	University of California at Santa Cruz	S0183654	-	10,359
		10.307	University of Illinois, UrbanaChampaign	2014-06469-01-00	-	19,129
	Plant & Animal Disease, Pest Control, & Animal Care	10.025			-	39,680
		10.025	Oregon Dept. of Agriculture	ODA-3702-IG / PCA 20956	-	25,061
	Soil & Water Conservation	10.902			-	5,000
	Special Research Grants	10.200	University of Washington	UWSC8830 BPO 12436	-	2,428
	Specialty Crop Block Grant	10.170	Oregon Dept. of Agriculture	ODA 3514 GR	-	37,296
		10.170	Oregon Dept. of Agriculture	ODA-3248-IA / PCA 20307	-	3,991
		10.170	Oregon Dept. of Agriculture	ODA-3691-GR / PCA 20393	-	8,030
		10.170	Oregon Dept. of Agriculture	ODA-3692-GR	-	24,985
	Specialty Crop Research Initiative	10.309			-	1,420
	Sustainable Agriculture Research & Education	10.215			-	5,701
		10.215	University of Wyoming	1002627 140867006/EW14- 031	-	6,671
		10.215	Utah State University		-	15,212
		10.215	Utah State University	140867040	-	10,481
	Northwest Fire Science Consortium	10.000			-	180,038
	Long-Term Ecological Reflections VI: Further Collaborations among Ecosystem Scientists, Environmental Philosophers, and Writers	10.000			-	15,675
	Honey Bee Tech-Transfer Team to Monitor Colony Health in the Pacific Northwest	10.000			-	(14)
	Establishing Phytophthora Resistant Port- Orford-Cedar in Curry County	10.000			-	1,327

<i>Federal Cluster</i>	<i>Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed Through to Subrecipients</i>	<i>Expenditures</i>
		Research Natural Areas Establishment and Mgmt.	10.000			-	28,857
		An evaluative strategic approach involving international students and the Don't Pack a Pest Campaign	10.000			-	56,983
		Social Science Forum	10.000			-	2,902
		Willamette National Forest Recreation Study and Analysis Project	10.000			-	14,650
		Communicating Climate Science and Adaptation to Oregon Private Forest Owners	10.000			-	16,600
		Northwest Workshop on Wildfire Adaptation & Mitigation for Working Forest Lands: Challenges and solutions in the face of climate change	10.000			-	16,307
		Portland Beginning Farmer Partnership	10.000	Mercy Corps	2013-1498	-	9,842
		Partnership for Forestry Education II	10.000	Oregon Dept. of Forestry	2014-1503	-	19,734
		Pacific Northwest Climate Hub Outreach Education	10.000			-	11,840
		Oregon Explorer Western Wildfire Risk Assessment Project	10.000	Oregon Dept. of Forestry	2015-1549	-	7,920
		Model Eastside Private Forestland Collaborative	10.000	Oregon Dept. of Forestry	2015-916	-	43,961
		Oregon Forest Pest Detector	10.000	Oregon Dept. of Forestry	2016-1951	-	9,445
		Developing Adapted Varieties & Optimal Mgmt. Practices for Quinoa in Diverse Environments	10.000	Washington State University	C#20718	-	23,779
		Strengthening Livestock Producer and Meat Processor Partnerships in Central Oregon	10.000			870	7,676
		Children's Forest of Central Oregon	10.000	High Desert Museum	OSU-2	-	9,942
		Evaluative Study	10.000			-	1,017
		Supplies and Services	10.000			-	1,017
		<i>Total Department of Agriculture</i>				47,206	6,747,877
Department of Commerce		Habitat Conservation	11.463			-	8,761
		Marine Sanctuary Program	11.429			-	48,601
		Sea Grant Support	11.417			-	1,501,311
			11.417	University of Delaware	33698	-	2,510
		Unallied Industry Products	11.452			-	11,595
		NOAA Newport Research Station O&M	11.000			-	569,627
		Training Course: "Wave-Imaging Remote Sensing for Hydrographic Applications"	11.000			-	2,845
		Chan IPA	11.000			-	6,856
		Coastal ocean modeling and data assimilation system transition (COAT) / West Coast Operational Forecast System (WCOFS)	11.000			-	121,396
		External Coordinator for the Center for Independent Experts	11.000	NTVI Communications, Inc.	SA-14-NOAA-02 Task Order 01	-	48,393
		<i>Total Department of Commerce</i>				-	2,321,895
Department of Defense		Sediment Dynamics at Yaquina Bay, Oregon	12.000			-	46,790
		US Navy Marine Species Monitoring Meeting	12.000	HDR One Company	CNV100031572	-	1,581
		Roadmap Preparation for NAVAIR	12.000			-	4,553
		<i>Total Department of Defense</i>				-	52,924
Department of Education		Gaining Early Awareness & Readiness for Undergraduates	84.334			793,716	2,069,666
		Migrant Education College Assistance	84.149			-	364,979
		Migrant Education State Grants	84.011	Forest Grove School District	No. 010	-	2,057

<i>Federal Cluster</i>	<i>Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed Through to Subrecipients</i>	<i>Expenditures</i>
			84.011	Oregon Dept. of Education	10355	-	112,610
			84.011	Oregon Dept. of Education	10657	-	11,214
			84.011	Oregon Dept. of Education	40026	-	55,869
		Race to the Top Early Learning Challenge	84.412	Oregon Dept. of Education	10439	-	40,926
		Special Education Personnel Development to Improve Services ...	84.325			-	120,245
		Supporting Effective Instruction State Grants	84.367	Western Oregon University	TRSUB14.21	-	42,678
			84.367	Western Oregon University	TRSUB16.12	-	13,580
		2015 Ontario School District - Migrant Leadership Institute	84.000	Ontario School District	008	-	11,000
		2015 Migrant Leadership Institute - Forest Grove SD	84.000	Forest Grove School District	009	-	9,912
		2016 Migrant Leadership Institute - Ontario School District	84.000	Ontario School District	11	-	6,034
		Network for Quality Teaching and Learning (NQTL) of Pedagogy Preparation	84.000	Oregon Dept. of Education	35447	-	1,349
<i>Total Department of Education</i>						793,716	2,862,119
Department of Energy		Energy Efficiency & Renewable Energy Info Dissemination ...	81.117			-	373,858
		Environmental Monitoring/Cleanup, Cultural & Resource Mgmt., ...	81.214			-	8,166
			81.214	Oregon Dept. of Energy	16-002	-	25,820
		Nuclear Energy Research, Development and Demonstration	81.121			-	181,605
		NSEP Expansion to Oregon State University School of Nuclear Science and Engineering	81.000	DOE Pacific Northwest National Lab	199062-286385	-	34,068
		Delivery of Course on Nuclear Arms Control and Nonproliferation	81.000	DOE Pacific Northwest National Lab	268581	-	45,590
		Development of and Teaching a Graduate Course on Weapons of Mass Destruction	81.000	DOE Pacific Northwest National Lab	280826	-	10,957
		Proposal to Idaho National Laboratory to Implement a Joint Appointment for Professor Andrew C. Klein, Department of Nuclear Engineering and Radiation Health Physics	81.000	Idaho National Laboratory	68396-02	-	11,840
		National Defense Science and Engineering Graduate Fellowship - Selene Fregosi	81.000	American Society for Engineering Education	Not Available	-	22,165
<i>Total Department of Energy</i>						-	714,069
Department of Health & Human Services		Assistance for Chronic Disease Prevention & Control	93.945	Oregon Health Authority	146299	-	26,677
		Block Grants for Prevention & Treatment of Substance Abuse	93.959	Oregon Health Authority	146485	-	12,797
		Food & Drug Administration Research	93.103			-	11,401
		Nurse Education, Practice Quality & Retention Grants	93.359	Oregon Health & Sciences University	9009002_CP/9009002_CP2	-	(259)
		State Innovation Models Funding for Design & Testing Assistance	93.624	Oregon Health Authority	147933	-	45,428
		State Partnership Grant to Improve Minority Health	93.296	Willamette Neighborhood Housing Services	2015-580	-	(827)
			93.296	Willamette Neighborhood Housing Services	2015-802	-	7,737

<i>Federal Cluster</i>	<i>Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed Through to Subrecipients</i>	<i>Expenditures</i>
				Willamette Neighborhood Housing Services	2016-1842	-	4,234
		Substance Abuse & Mental Health Service Projects of Regional ...	93.296			-	91,359
			93.243	Oregon Health & Sciences University	1003942_OSU-Cascades	-	25,463
			93.243	Oregon Health Authority	147190	-	27,771
		<i>Total Department of Health & Human Services</i>				-	251,781
				Oregon Office of Emergency Management	PDMC-PL-10-OR-2014-001	-	35,925
	Department of Homeland Security	Pre-Disaster Mitigation	97.047			-	
	Department of Justice	Juvenile Mentoring	16.726	National 4-H Council	2013-1548	-	(2,966)
			16.726	National 4-H Council	2015 NMP6	-	107,983
			16.726	National 4-H Council	2015-1655-NMP5	-	164,408
			16.726	National 4-H Council	2015-1858	-	74,257
		<i>Total Department of Justice</i>				-	343,682
	Department of the Interior	Cultural & Paleontological Resources Management	15.224			-	24,699
		Fish & Wildlife Management Assistance	15.608			-	4,593
		Fish, Wildlife & Plant Conservation Resource Mgmt.	15.231			-	15,000
		Secure Rural Schools & Community Self-Determination	15.234			-	3,101
			15.234	Oregon Dept. of Forestry	471291-15	-	10,494
		Service Training & Technical Assistance	15.649			-	3,056
		Sportfishing & Boating Safety Act	15.622	Oregon State Marine Board	1113-100	-	(1,693)
		Youth Engagement, Education, & Employment	15.676			-	21,752
		Providing Water to At-Risk Natural Desert Terminal Lakes	15.508			-	115,546
		Clean Vessel Act Outreach, Education and Maintenance Training	15.000	Oregon State Marine Board	2015-17	-	94,673
		Computer Support for High Resolution Regional Climate Data	15.000			-	11,280
		<i>Total Department of the Interior</i>				-	302,501
	Department of Transportation	University Transportation Centers	20.701	University of Washington	BPO# 002600/UWSC8230	-	42,205
		Oregon Needs and Issues Survey	20.000	Oregon Dept. of Transportation	30530 WO 16-15	-	33,961
		<i>Total Department of Transportation</i>				-	76,166
	Department of Veterans Affairs	VHA Primary Care	64.047			-	6,966
		IPA From VA Toolkit Series Project	64.000			-	9,866
		<i>Total Department of Veterans Affairs</i>				-	16,832
	Environmental Protection Agency	Nonpoint Source Implementation Grants	66.460	Oregon Dept. of Environmental Quality	044-14	-	3,164
			66.460	Oregon Dept. of Environmental Quality	066-13	-	7,781
		Office of R&D Consolidated Research/Training/Fellowships	66.511			-	2,304
		Pollution Prevention Grants	66.708			13,187	28,029

<i>Federal Cluster</i>	<i>Grantor</i>	<i>Program Title</i>	<i>CFDA Number</i>	<i>Pass-Through Entity</i>	<i>Pass-Through Identifying Number</i>	<i>Passed Through to Subrecipients</i>	<i>Expenditures</i>
		Regional Wetland Program Development Grants	66.461	Willamette Partnership	6565	-	12,113
		Res, Dev, Monitoring, Pub Ed, Outreach, Training, Demo & Studies	66.716			28,375	995,330
			66.716	Texas A & M University	07-S140740	-	30,793
			66.716	University of California, Davis	201600040-01	-	88,966
		Continuation of Alan Herlihy IPA with U.S. EPA	66.000			-	97,143
		<i>Total Environmental Protection Agency</i>				41,562	1,265,623
	National Aeronautics & Space Admin	Education	43.008			143,170	511,600
		Science	43.001	WGBH Educational Foundation	K201600659	-	39,536
		<i>Total National Aeronautics & Space Administration</i>				143,170	551,136
	National Endowment for the Humanities	Promotion of the Humanities Office of Digital Humanities	45.169			-	1,876
	Nuclear Regulatory Commission	Scholarship & Fellowship	77.008			-	71,760
	Office of Personnel Management	Intergovernmental Personnel Act Mobility	27.011			-	29,431
	Vietnam Education Foundation	Fellowships	85.802			-	118,300
		<i>Total Non-Clustered Grants</i>				1,025,654	15,877,331
		Total Federal Expenditures				\$ 18,146,449	\$ 390,024,412

**OREGON STATE UNIVERSITY
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2016**

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, 2016. The information in this Schedule is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance). Because the Schedule presents only a selected portion of the operations of Oregon State University, it is not intended to and does not present the financial position, changes in net position, or cash flows of Oregon State University.

NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

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

NOTE 3 FEDERAL STUDENT LOAN PROGRAMS

The federal student loan programs listed subsequently are 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, 2016 consists of:

<u>Program Title</u>	<u>CFDA Number</u>	<u>Amount Outstanding</u>
Perkins Loans	84.038	\$24,575,475

**OREGON STATE UNIVERSITY
SCHEDULE OF FINDINGS AND QUESTIONED COSTS
FOR THE YEAR ENDED JUNE 30, 2016**

Section I – Summary of Auditors’ Results

Financial Statements

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

Federal Awards

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

Identification of Major Federal Programs

CFDA Number(s)	Name of Federal Program or Cluster
84.007, 84.003, 84.038, 84.063, 84.268, 84.379, 84.408	Student Financial Assistance Cluster

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, 2016**

Section II – Financial Statement Findings

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

Section III – Findings and Questioned Costs – Major Federal Programs

2016 – 001

Federal agency: Department of Education

Federal program title: Student Financial Assistance Cluster

CFDA Number: Federal Pell Grant Program – 84.063

Award Period: July 1, 2015 to June 30, 2016

Type of Finding:

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

Criteria or specific requirement: The Code of Federal Regulations, 34 CFR 690, states that the University is required to report the disbursement dates and amounts to the Common Origination and Disbursement (COD) system within 15 days of disbursing Federal Pell Grant funds to students.

Condition: During our testing, we noted that for three of the 40 students tested, disbursements were not reported within the required 15 days to the COD.

Questioned costs: None.

Context: Out of a sample of 40 students selected for testing for the requirement noted above, we noted three exceptions as described above.

Cause: Per discussion with Brian Hultgren, Associate Director of Financial Aid, in the beginning part of the aid year, Federal Pell Grant extractions were run manually by the University's Pell Grant coordinator and Enrollment Management Information Technology (EMIT) tech consultant. The Office of Financial Aid found that the Pell extraction job was last run on June 23, 2015, and a request to schedule the job through the University's automated client was to occur between July 1 and July 5, 2015. The reason for this gap was that the Pell Grant coordinator was on vacation and the EMIT tech consultant was absent due to illness.

These unforeseen events were the cause for some Pell Grant records to be reported outside of the 15-day window because the extraction jobs did not run for a short period of time.

Effect: Noncompliance with Federal regulations noted above. In addition, insufficient or incomplete Pell information at the COD may allow students to exceed their lifetime limits of eligible awards.

Repeat Finding: No.

**OREGON STATE UNIVERSITY
SCHEDULE OF FINDINGS AND QUESTIONED COSTS
FOR THE YEAR ENDED JUNE 30, 2016**

Recommendation: We recommend the University evaluate its procedures and policies around reporting Pell disbursements to COD to ensure that student information is reported accurately and timely.

Views of responsible officials: There is no disagreement with the audit finding. The University will work to improve communication and written documentation within the Office of Financial Aid as well as with other offices, such as Enterprise Computing Services (ECS) and EMIT. The Office of Financial Aid will put measures in place to create, track and maintain the timeliness of Pell Grant disbursement records to COD by way of creating a systems calendar to track when to build, schedule or implement the extraction process through its client; cross-training to pre-plan for any unforeseen absences; and by creating policies and procedures focused on the scheduling and running of the Pell extraction process within the University's automated client.

2016-002

Federal agency: Department of Education

Federal program title: Student Financial Assistance Cluster

CFDA Number: 84.007 – Federal Supplemental Education Opportunity Grants

84.033 – Federal Work Study Program

84.038 – Federal Perkins Loans

84.063 – Federal Pell Grant Program

84.268 – Federal Direct Student Loans

84.379 – Teacher Education Assistance for College and Higher Education Grants

84.408 – Postsecondary Education Scholarships for Veteran's Dependents

Award Period: July 1, 2015 to June 30, 2016

Type of Finding:

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

Criteria or specific requirement: The Code of Federal Regulations, 34 CFR 685.309, requires that enrollment status changes for students be reported to the National Student Loan Database System (NSLDS) within 15 days or within 60 days if the student with the status change will be reported on a scheduled transmission within 60 days of the change in status. Regulations require the status include an accurate effective date. In addition, regulations require that an institution make necessary corrections and return the records within 10 days for any roster files that do not pass the NSLDS enrollment reporting edits.

Uniform Guidance requires nonfederal entities receiving Federal awards establish and maintain internal controls designed to reasonably ensure compliance with Federal laws regulations, and program compliance requirements. Effective internal controls should include procedures to ensure that submission errors to the NSLDS are corrected and resubmitted in a timely manner.

Condition: Review of enrollment reporting data from the University showed that errors were not corrected and returned to NSLDS within the prescribed timeframe (10 days), and, per a sample of 40 students whose underlying enrollment reporting data was tested for accuracy of status and timeliness of reporting, one student's status was not reported to the NSLDS within the 60-day window described above.

Questioned costs: None.

**OREGON STATE UNIVERSITY
SCHEDULE OF FINDINGS AND QUESTIONED COSTS
FOR THE YEAR ENDED JUNE 30, 2016**

Context: During our review of submission dates and error corrections, we noted that errors identified by the NSLDS were not corrected within the prescribed 10-day timeframe. In addition, during testing of underlying enrollment information, we noted one student, in a sample of 40, whose enrollment status was not reported to the NSLDS within the prescribed 60-day timeframe.

Cause: The University utilizes the National Student Clearinghouse (NSC) to report student information to NSLDS. After uploading batch roster updates to NSLDS within the required timeframe, the University's error/acknowledgment file from NSLDS is available to them via their NSC services. In an attempt to correct the errors, NSC resubmitted the files within the required 10 days but unfortunately, some of those records continued to not pass the NSLDS enrollment reporting edits and we noted no additional uploads by NSC to correct these errors until the next enrollment roster request from NSLDS. The University also believes that the issues encountered and described above are also the cause of the discrepancies noted in the testing of underlying information.

Effect: The NSLDS system is not updated with the correct student information, which can cause overawarding should the student transfer to another University. In addition, the students may not properly enter the repayment period if their status is not properly updated with the NSLDS.

Repeat Finding: Yes, prior year finding 2015-003.

Recommendation: We recommend the University continue to review its reporting procedures to ensure that students' statuses are accurately and timely reported to NSLDS as required by regulations described above.

Views of responsible officials: There is no disagreement with the audit finding; however, in the past eight months, the Office of the Registrar has taken the following actions to respond to attempt to improve the reporting relationship between the National Student Clearinghouse and the NSLDS, including: Speaking directly with the CEO of the National Student Clearinghouse about the errors they have sent to NSLDS; contacting the NSC Audit Services Division about the errors; engaging in troubleshooting conversations with other peer institutions about how to positively impact this situation; reviewing the submission timeframe in an effort to better align with the NSC submission timeframe to the NSLDS; and creating a review team in the Office of the Registrar to evaluate the submissions after realigning with the NSC submission to the NSLDS. Two of the above actions were recommendations from another University that was able to improve their submissions successfully.

**OREGON STATE UNIVERSITY
SUMMARY SCHEDULE OF PRIOR YEAR FINDINGS
FOR THE YEAR ENDED JUNE 30, 2016**

Section IV – Prior Year Findings

2015-001

Federal agency: Department of Education

Federal program title: Student Financial Assistance Cluster

CFDA Number: 84.007 – Federal Supplemental Education Opportunity Grants
84.033 – Federal Work Study Program
84.038 – Federal Perkins Loans
84.063 – Federal Pell Grant Program
84.268 – Federal Direct Student Loans
84.379 – Teacher Education Assistance for College and Higher Education Grants
84.408 – Postsecondary Education Scholarships for Veteran’s Dependents

Type of Finding:

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

Summary: Per 34 CFR section 668, and as outlined in the former OMB A-133 Compliance Supplement, Part 5, the institution must submit data corrections for verified students to the central processor. In addition, as outlined in the Federal Student Aid Handbook, any errors reported on the original Free Application for Federal Student Aid (FAFSA), must be corrected and submitted for processing should those corrections change the student’s Estimated Family Contribution (EFC). Out of 40 students tested for this requirement, one student was noted to have conflicting data between the University’s information system and the information maintained with the central processor.

Status: During the current year’s testing surrounding FAFSA information and comparison to University information, no exceptions were noted in a sample of 40 students selected for testing.

2015-002

Federal agency: Department of Education

Federal program title: Student Financial Assistance Cluster

CFDA Number: 84.007 – Federal Supplemental Education Opportunity Grants
84.033 – Federal Work Study Program
84.038 – Federal Perkins Loans
84.063 – Federal Pell Grant Program
84.268 – Federal Direct Student Loans
84.379 – Teacher Education Assistance for College and Higher Education Grants
84.408 – Postsecondary Education Scholarships for Veteran’s Dependents

Type of Finding:

- Significant Deficiency in Internal Control over Compliance

**OREGON STATE UNIVERSITY
SUMMARY SCHEDULE OF PRIOR YEAR FINDINGS
FOR THE YEAR ENDED JUNE 30, 2016**

Summary: Per former OMB Circular A-110, nonfederal entities receiving Federal awards are required to establish and maintain internal controls designed to reasonably ensure compliance with Federal laws, regulations and program compliance requirements. During our testing of the verification requirement, we did not find any noncompliance. However, we were unable to identify a specific control in place to ensure that any errors would be prevented or detected in a timely matter.

Status: During the current year's audit and testing of the controls surrounding the Federal student aid verification process, we determined and reviewed the control processes put in place during the current year. No similar findings were noted during the current year audit.

2015-003

Repeated. See current year finding 2016-002.

2015-004

Federal agency: Department of Agriculture

Federal program title: Research and Development Cluster

Program Title: Water Availability in Western Oregon Headwaters:

Effects of Density Management and Riparian Buffers

CFDA Number: 10.000

Type of Finding:

- Significant Deficiency in Internal Control over Compliance

Summary: Per former OMB Circular A-110, nonfederal entities receiving Federal awards are required to establish and maintain internal controls designed to reasonably ensure compliance with Federal laws, regulations and program compliance requirements. Per review of supporting documentation for 40 Federal expenditures selected for testing, one invoice in excess of \$1,000 was approved by an individual who did not have the authority to authorize invoices in excess of \$1,000.

Status: Per discussions with University management and departmental leadership and testing performed over disbursements, it was determined that the corrective action plan identified in the prior year pertaining to payment approval authority of invoices for expenditures related to Federal funds was implemented during the current year. During the current year audit, such expenditures were subject to and selected for testing of the control processes noted above, for which there was a significant deficiency in internal control over compliance in the prior year. No such exceptions were noted during our current year audit.