Michigan Technological University



Year Ended June 30, 2015 Single Audit Act Compliance



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INDEPENDENT AUDITORS' REPORT ON THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS REQUIRED BY OMB CIRCULAR A-133

November 13, 2015

To the Board of Trustees Michigan Technological University Houghton, Michigan

We have audited the financial statements of *Michigan Technological University* (the "University"), as of and for the year ended June 30, 2015, and the related notes to the financial statements, which collectively comprise the University's basic financial statements. We issued our report thereon dated November 13, 2015, which contained an unmodified opinion on those financial statements. Our audit was conducted for the purpose of forming an opinion 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 OMB Circular A-133 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 basic 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 expenditure of federal awards is fairly stated in all material respects in relation to the basic financial statements as a whole.

Rehmann Loham LLC

Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federa Expendit
udent Financial Assistance Cluster S. Department of Education				
Federal Supplemental Educational Opportunity Grants	84.007	Direct	P007A132046	\$ 234,
Federal Work-Study Program	84.033	Direct	P033A132046	284,
Federal Perkins Loan Program	84.038	Direct	-n/a-	2,260,
Federal Pell Grant Program	84.063	Direct	P063P130234	5,653,
Federal Direct Student Loans	84.268	Direct	P268K130234	28,981,
tal Student Financial Assistance Cluster				37,414,
				,
search and Development Cluster 5. Department of Agriculture				
No CFDA Number:				
USAGR-ESC-FFC-Emerals Ash Borer	10.unk	Direct	14-8130-0464-CA	4,
USAGR-FFC-ESC-Climate Change Plan	10.unk	Direct	12-CR-11242306-131	94,
USAGR-ESC-FFC-Nat'l Soil Carbon Net	10.unk	Direct	09-CR-11242306-086	
USAGR-ESC-FFC-Marcell Exp Forest	10.unk	Direct	10-JV-11242307-067	
Cooperative Management of Archaeolo	10.unk	Direct	10-CS-11091000-022	3
USAGR-ESC-FFC-Black Ash Wetlands	10.unk	Direct	11-CS-11090100-006	79
USAGR-ESC-FFC-Native Plant Prod Res	10.unk	Direct	11-JV-11221632-130	30
USAGR-ESC-FFC-Wood Stake Decomp.	10.unk	Direct	11-JV-11242301-081	5
USAGR-GIS Interface WEPP Watershed	10.unk	Direct	12-JV-11221634-175	3
USAGR-FFC-ESC-Pine Samples	10.unk	Direct	12-CR-11242313-106	
USAGR-ESC-FFC-Environmental Change	10.unk	Direct	12-JV-11242306-105	168
USAGR-ESC-FFC-Tropical Ecosystems	10.unk	Direct	13-JV-11242306-044	169
USAGR-ESC-FFC-Carbon Rsch Management	10.unk	Direct	13-CR-11242306-065	17
USAGR-FlamMap Model Complement	10.unk	Direct	13-JV-11221634-135	3
USAGR-ESC-FFC-Forest Health Threats	10.unk	Direct	13-CS-11242306-069	24
USAGR-ESC-FFC-Puerto Rican Forest	10.unk	Direct	13-JV-11120101-033	34
USAGR-ESC-FFC-Trapping Success Yr1	10.unk	Direct	13-PA-11020000-060	34
USAGR-ESC-FFC-Wood Decomposition	10.unk	Direct	13-JV-11330140-120	5
USAGR-ESC-FFC-Biomass Removal	10.unk	Direct	14-JV-11221633-021	10
	10.unk	Direct	14-3V-11221633-021	7
USAGR-ESC-FFC-Pile Burning on Wood				
USAGR-Multi-Temporal Imagery	10.unk	Direct	14-CS-11090700-005	44
USAGR-ESC-FFC-Post-Fire Salvage Log	10.unk	Direct	14-JV-11221634-138	74
USAGR-ESC-FFC-Black Ash Wetlands	10.unk	Direct	14-JV-11242307-153	40
USAGR-ESC-FFC-Soil Heating Alter	10.unk	Direct	15-JV-11221633-036	15
USAGR-FFC-ESC-Properties of Ironwood	10.unk	Direct	12-JV-11111133-059	1 874
ooperative Forestry Research: USAGR-MS-FFC-FY13 Admin	10.202	Direct	2013-32100-06098 AMEND. NO.1	46
USAGR-MS-FFC-ADMIN FY 14	10.202	Direct	2014-32100-60698	166
USAGR-MS-FFC-FY15 Admin	10.202	Direct	2015-32100-06098, AMEND NO. 1	106
	10.202	Direct		319
gricultural and Rural Economic Research				
Cooperative Agreements:				
NORTH-Contextualizing Food Decision	10.250	North Carolina State University	2014-1960-01	
riculture and Food Research Initiative:				
USAGR-BRC-FFC Root Dev Populus	10.310	Direct	2009-65504-05767	8
USAGR-FFC-Overlapping Sense/Antisen	10.310	Direct	2012-67014-19445	24
USAGR-FFC-BRC-Lateral OrganBoundary	10.310	Direct	2012-67013-19389	173
	10.310	Direct	2014-67018-21767	70
USAGR-BRC-Rice Callus Culture				
	10.310	University of Texas at El Paso	2015070041 / 2015-68007-23130	
	10.310	University of Texas at El Paso	2015070041 / 2015-68007-23130	
UNIVE-CWS-Sustainable Water-Desert				280
USAGR-BRC-Rice Callus Culture UNIVE-CWS-Sustainable Water-Desert iomass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel	10.310 10.312	University of Texas at El Paso Direct	2015070041 / 2015-68007-23130 59-3620-3-002	280
UNIVE-CWS-Sustainable Water-Desert iomass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel				
UNIVE-CWS-Sustainable Water-Desert omass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel ood Utilization Assistance: USDOW-APSRC-Low Lignin Woods	10.312	Direct	59-3620-3-002	
UNIVE-CWS-Sustainable Water-Desert omass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel ood Utilization Assistance: USDOW-APSRC-Low Lignin Woods vrest Health Protection:	10.312	Direct	59-3620-3-002	280 280 85
UNIVE-CWS-Sustainable Water-Desert omass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel ood Utilization Assistance: USDOW-APSRC-Low Lignin Woods orest Health Protection: USAGR-ESC-FFC-Heterobasidion Root	10.312 10.674	Direct	59-3620-3-002 GRANT NUMBER: CW-4	3 280 85 16
UNIVE-CWS-Sustainable Water-Desert iomass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel ood Utilization Assistance: USDOW-APSRC-Low Lignin Woods orest Health Protection: USAGR-ESC-FFC-Heterobasidion Root al U.S. Department of Agriculture . Department of Commerce	10.312 10.674	Direct	59-3620-3-002 GRANT NUMBER: CW-4	3 280 85 16
UNIVE-CWS-Sustainable Water-Desert iomass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel /ood Utilization Assistance: USDOW-APSRC-Low Lignin Woods prest Health Protection: USAGR-ESC-FFC-Heterobasidion Root al U.S. Department of Agriculture . Department of Commerce o CFDA Number:	10.312 10.674 10.680	Direct Direct	59-3620-3-002 GRANT NUMBER: CW-4 14-DG-11420004-188	3 85 16 17 1,596
UNIVE-CWS-Sustainable Water-Desert iomass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel 'ood Utilization Assistance: USDOW-APSRC-Low Lignin Woods orest Health Protection: USAGR-ESC-FFC-Heterobasidion Root al U.S. Department of Agriculture . Department of Commerce o CFDA Number: UNIVE-Great Lakes Remote Sensing	10.312 10.674	Direct	59-3620-3-002 GRANT NUMBER: CW-4 14-DG-11420004-188 3003130551	3 85 16 17 1,596
UNIVE-CWS-Sustainable Water-Desert iomass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel 'ood Utilization Assistance: USDOW-APSRC-Low Lignin Woods orest Health Protection: USAGR-ESC-FFC-Heterobasidion Root al U.S. Department of Agriculture . Department of Commerce o CFDA Number: UNIVE-Great Lakes Remote Sensing	10.312 10.674 10.680	Direct Direct	59-3620-3-002 GRANT NUMBER: CW-4 14-DG-11420004-188	3 280 85 16 17 1,596 98
UNIVE-CWS-Sustainable Water-Desert iomass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel /ood Utilization Assistance: USDOW-APSRC-Low Lignin Woods orest Health Protection:	10.312 10.674 10.680 11.unk	Direct Direct Direct University of Michigan	59-3620-3-002 GRANT NUMBER: CW-4 14-DG-11420004-188 3003130551	3 280 85 16 17 1,596 98 7
UNIVE-CWS-Sustainable Water-Desert iomass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel /ood Utilization Assistance: USDOW-APSRC-Low Lignin Woods orest Health Protection: USAGR-ESC-FFC-Heterobasidion Root al U.S. Department of Agriculture . Department of Commerce o CFDA Number: UNIVE-Great Lakes Remote Sensing LIMNO-GLOS DMAC 2014-2015	10.312 10.674 10.680 11.unk 11.unk	Direct Direct Direct University of Michigan LimnoTech Inc	59-3620-3-002 GRANT NUMBER: CW-4 14-DG-11420004-188 3003130551 DMAC-04 PRIME# NA11NOS0120041	3 85 16 17 1,596 7
UNIVE-CWS-Sustainable Water-Desert iomass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel food Utilization Assistance: USDOW-APSRC-Low Lignin Woods prest Health Protection: USAGR-ESC-FFC-Heterobasidion Root al U.S. Department of Agriculture . Department of Commerce o CFDA Number: UNIVE-Great Lakes Remote Sensing LIMNO-GLOS DMAC 2014-2015 USCOM-Underwater Radiometer Measure tegrated Ocean Observing System:	10.312 10.674 10.680 11.unk 11.unk 11.unk	Direct Direct Direct University of Michigan LimnoTech Inc Direct	59-3620-3-002 GRANT NUMBER: CW-4 14-DG-11420004-188 3003130551 DMAC-04 PRIME# NA11NOS0120041 CONFIRMING ORDER #1503063	3 280 85 16 17 1,596 98 7 107
UNIVE-CWS-Sustainable Water-Desert iomass Research and Development Initiative Competitive: USAGR-SFI-HRJ Fuel 'ood Utilization Assistance: USDOW-APSRC-Low Lignin Woods orest Health Protection: USAGR-ESC-FFC-Heterobasidion Root al U.S. Department of Agriculture . Department of Commerce o CFDA Number: UNIVE-Great Lakes Remote Sensing LIMNO-GLOS DMAC 2014-2015 USCOM-Underwater Radiometer Measure	10.312 10.674 10.680 11.unk 11.unk	Direct Direct Direct University of Michigan LimnoTech Inc	59-3620-3-002 GRANT NUMBER: CW-4 14-DG-11420004-188 3003130551 DMAC-04 PRIME# NA11NOS0120041	3 85 16 17 1,596 7

Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federa Expenditu
search and Development Cluster (Continued) S. Department of Commerce (Concluded)				
Sea Grant Support:				
UNIVE-CWS2-Torch Lake Assessment AOC	11.417	University of Michigan	3002230000 MSG #R/WQ-4	\$ 14,4
OHIOS-GLRC-Lake Superior Coastal	11.417	Ohio State Univ Research Foundation	SUB. 60045241, NA12OAR4170113	22,8
				37,3
Coastal Zone Management Administration Awards: MIDEQ-Current Forecasting	11.419	Michigan Dept of Environmental Quality	14-RIP-002	39,2
REGEN-GLRC-Rip Currents Great Lakes	11.419	Regents of the University of Michigan	SUBCONTRACT NO. 3002561961	39,2
Climate and Atmospheric Research:				39,2
USCOM-CWS2-Mgmt Lower Colorado River	11.431	Direct	NA13OAR4310126	106,4
National Oceanic and Atmospheric Administration (NOAA): Cooperative Institutes:				
UNIVE-GLOS Observing Network	11.432	University of Michigan	3002475304 / NA120AR4320071	147,1
tal U.S. Department of Commerce				535,0
S. Department of Defense				
No CFDA Number:	12	Loides to a		00.4
LEIDO-Cheetah BICAP, Bicardo Tost Support	12.unk 12.unk	Leidos Inc Ricardo Inc	P010168662 #FA8650-15-C-0019 PO #4500038656	99,0 22,0
RICAR-Ricardo Test Support MISSI-MIMC-FNR-ResourceSharing	12.unk	Mississippi State University	060803-360515.01	48,
MISSI-APSRC-FNR-IP8 Ignition	12.unk	Mississippi State University	060803.360514.01	-10, 66,
LEIDO-Oak II	12.unk	Leidos Inc	SUBCONTRACT #P010130462	29,
CRAFT-MuSTI-Transfer Offshore	12.unk	Craft Engineering Associates Inc	PO#Z1101	34
LEIDO-MSDD	12.unk	Leidos Inc	P010146084	1
KESTR-Turbulence Compensation	12.unk	Kestrel Corporation	TECH S-USAF #FA8650-14-M-1761	50
MATRI-SAR-Aided Navigation Phase 2	12.unk	Matrix Research Inc	PO #2012-0219 SBIR PHASE 2	79
MATRI-Bistatic 3dMagi	12.unk	Matrix Research Inc	PO #2013-0354	00
MATRI-BiStatic Extraction LEIDO-Acme	12.unk 12.unk	Matrix Research Inc Leidos, Inc.	2014-0330 #FA8650-13-C-1627 PRIME 12-C-8917, PO10108055	90 405
SYSTE-Mathematical Models	12.unk	Systems Research and Applications Corporation	SUBCONTRACT #SRAS000497	405
SYSTE-Wind Mitigation Phase II	12.unk	Systems & Technology Research LLC	SUB#2013-1023/FA8650-13-C-1597	65
LEIDO-OPERA	12.unk	Leidos Inc	TASK ORDER #P010151900-1	45
THERM-Mitigate Sensor Saturationthe	12.unk	Thermoanalytics Inc	PRIME #FA8650-14-C-5014	73
TECHN-FNR-Sr Design-Design Challeng	12.unk	Technology Service Corporation	STUDENT PROJECT-TSC-1070-40066	20
WYLEA-MuSTI-Nonreciprocal Nanophoto	12.unk	Wyle Aerospace Group	PO# WSCS00031 TAT 261	73
HELIO-Range/Doppler Straddle	12.unk	Helios Remote Sensing Systems	1150-S01-HRSSI	197
SCIEN-PILOT-Task 3.3 ACADE-IMP-REAP at Michigan Tech	12.unk 12.unk	Leidos, Inc.	#P010124681 W15P7T-12-C-A034 AWARD 14-21A	18 5
CRAFT-AIM-JHSV Crane Review	12.unk	Academy of Applied Science Craft Engineering Associates Inc	PO# AC0508	3
QUANT-AIM-RMCD Phase II SBIR	12.unk	Quantum Engineering Design Inc	MTU AGMT #1403009	12
ALION-Weapons Systems Contaminant	12.unk	Alion Science and Technology Corporation	PRIME SP0700-99-D-0301	22
ALION-Weapon Systems Acoustic Evalu	12.unk	Alion Science and Technology Corporation	ALION SUB 1126301 TASK ORD 003	136
DARPA-CCSR-FNR-Synchronization	12.unk	Direct	HR0011-13-C-0057	60
DARPA-Adaptive RADAR Countermeasure	12.unk	Direct	HR0011-13-C-0032 MOD #P00003	120
DARPA-OPTIMIZED Shared SPECTRUM	12.unk	Direct	HR0011-14-C-0024	299
DARPA-Multi-Aperture Imaging	12.unk	Direct	HR0011-14-C-0081	364
DARPA-Adaptive RADAR Countermeasure DARPA-Interferometric Tracking	12.unk 12.unk	Direct Direct	HR0011-13-C-0032 HR0011-14-C-0120	1,396 637
DARPA-Cooperative Shared Spectrum	12.unk	Direct	HR0011-14-C-0136	193
DARPA-Microwave Photonic Links	12.unk	Direct	HR0011-15-C-0082	83
USAIR-MTRI-Radar Frequency Sensing	12.unk	Direct	FA8750-05-C-0237 P00007	17
USAIR-Multi-Domain Intelligence	12.unk	Direct	FA8750-12-C-0032	501
USAIR-CCSR-Multi-Sensor Intell	12.unk	Direct	FA8750-12-2-0108	33
OFFIC-Super Resolution Reconstruct	12.unk	Direct	FA8750-12-C-0119	15
USAIR-Multi Domain Intelligence II	12.unk	Direct	FA8750-15-C-0051	263
USAIR-Penetration Fuzing	12.unk	Direct	FA8651-15-C-0066	3
USARM-Handheld Explosive Hazard USARM-Spatial Coherence Imaging	12.unk 12.unk	Direct	W909MY-13-C-0029 W909MY-13-C-0013	440
OFFIC-ASSURED II-Pointman	12.unk	Direct Direct	W909MY-13-C-0013 W56HZV-08-C-0525 MTU-AMMS-022	182 50
OFFIC-ASSURED-RCV Improvements	12.unk	Direct	W56HZV-08-C-0525 MT0-AWW5-022 W56HZV-08-C-0525 WD-024	46
OFFIC-ASSURED II-Route Clearance	12.unk	Direct	W56HZV-08-C-0525 WDAMMS-25	207
TACOM-ASSUREDIII-Roller Feasibility	12.unk	Direct	W56HZV-14-C-0286 WD 001	44
TACOM-ASSUREDIII-EHP Maturation	12.unk	Direct	W56HZV-14-C-0286 WD 002	717
TACOM-ASSUREDIII-RCV Support	12.unk	Direct	W56HZV-14-C-0286 WD 003	611
TACOM-ASSUREDIII-RCM Development	12.unk	Direct	W56HZV-14-C-0286 WD 004	177
TACOM-Assured III-Exploration Test	12.unk	Direct	W56HZV-14-C-0286 WD 006	209
TACOM-ASSURED III-Noise & Vibration	12.unk	Direct	W56HZV-14-C-0286 WD 007	23
TACOM-ASSUREDIII-JIEDDO-IED Payload TACOM-ASSUREDIII-Adv Tech Insertion	12.unk	Direct	W56HZV-14-C-0286MODP006 WD 008	153
	12.unk	Direct	W56HZV-14-C-0286 MODP0006WD005	298

Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditur
esearch and Development Cluster (Continued) .S. Department of Defense (Concluded)				
Basic and Applied Scientific Research:				
OFFICE-IMP-Hi St Low Alloy Aluminum	12.300	Direct	N00014-11-1-0876	\$ 256,2
OFFIC-Info Recovery Algorithm Comp	12.300	Direct	N00014-13-1-0018	269,8
OFFIC-GLRC-Underwater Glider Fleet	12.300	Direct	N00014-14-1-0032	80,4
PENNS-GLRC-Ocean Basin Impact	12.300	Pennsylvania State University	PRIME N00014-11-1-0619 SA13-05	7,3
	12.300			613,9
Basic Scientific Research: OFFIC-MIMC-Agile Microgrids	12.431	Direct	W911NF-13-2-0024	303,4
USARM-MuSTI-First Principles Study	12.431	Direct	W911NF-14-2-0088	,
USANW-MUSTI-LIISt Frinciples Study	12.451	Direct	W711N1-14-2-0088	78,0
Basic, Applied, and Advanced Research in Science				
and Engineering:				
AMERI-IMP-Melt 5a Development	12.630	American Lightweight Materials Manufacturing Innovation Inst	#N00014-14-2-0002 SUB 0002A-6	14,0
Air Force Defense Research Sciences Program:				
USAIR-Capstone Design Challange	12.800	Direct	FA9550-11-1-0207	5,3
OFFIC-MuSTI-Model Hybrid Composites	12.800	Direct	FA9550-13-1-0030	84,9
USAIR-MuSTI-Magneto Electrostatic	12.800	Direct	FA9950-14-1-0337	147,3
USAIR-FNR-Fuze Test Capability	12.800	Direct	FA8651-14-2-0009	42,9
	12.800	Direct		42,5
USAIR-MuSTI-Nanostructured Prop			FA2386-14-1-3030	
NATIO-IMP-3D Weld Printing Platform	12.800	National Center for Defense Manufacturing and Machining	FA8650-12-2-7230	316,4
UNIVE-MACEEP-Electric Propulsion	12.800	University of Michigan	3001381267 P2	8,
UNIVE-CCSR-Wave Optics Turbulence	12.800	University of Dayton Research Institute	RSC12034	73,
MICHI-Fault Tolerant Paradigms	12.800	Michigan State University	RC102013MTU FA9550-12-1-0455	87,
				870,2
Mathematical Sciences Grants Program:				
NATIO-FNR-Codes & Galois Geometries	12.901	Direct	H98230-15-1-0042	26,
otal U.S. Department of Defense				10,722,9
.S. Department of Interior				
No CFDA Number:				
WISCO-ESC-FFC-Ecological Benefits	15.unk	Wisconsin Dept of Natural Resources	PO# NMD0000056	
WISCO-ESC-FFC-Lakeshore Restoration	15.unk	Wisconsin Dept of Natural Resources	PO #NME00000135	81,5
GRAND-Historic Landmark Nomination	15.unk	Grand Portage Reservation Tribal Council	LETTER RECEIVED 6/3/15	16,-
USAGR-Fire Emissions Inventory Tool	15.unk	Direct	13-JV-11261987-071	22,4
USPAR-CEBFM-Ferrous Metals in Herit	15.unk	Direct	MT-2210-12-NC-05	19,4
	. ordini	2.000		140,
Fish, Wildlife and Plant Conservation				
Resource Management:	45 224			(0
USBUR-NSSI Intergovernmental Webs	15.231	Direct	SUPPLEMENT NUMBER 0001	68,1
Science and Technology Projects Related to Coal Mining and Reclamation:				
SOUTH-BRC-Low Cost Green Technology	15.255	Southern Illinois University - Carbondale	AGREEMENT NO. 13-15	13,0
Keweenaw National Historical Park (NHP) Enhancement Grants				
KEWEE-Torch Lake Copper Reclamation	15.407	Keweenaw NHP Advisory Commission	AGREEMENT NO. C2013-00015	1,
KEWEE-Quincy Milling History	15.407	Keweenaw NHP Advisory Commission	C2015-015	
	15.407	Reweenaw Nile Advisory Commission	02013-013	2,
Fish and Wildlife Management Assistance:				
Development and Support of the USFW	15.608	Direct	30181AJ195 / F10AC00214	57,
Coastal Program:				
USFIS-Abiotic & Biotic Constraints	15.630	Direct	F12AC01384	38,
Research Grants (Generic):				
USFIS-Selawik Refuge Alaska	15.650	Direct	F12AC01268	30,
U.S. Geological Survey Research and Data Collection:				
USGEO-Understand Fish Production	15.808	Direct	G12AC20299	
	15.808	Direct	G14AC00019	15,
USGEO-ESC-FFC-Global Warming	10.000	Direct	014/(00017	15,

Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditure
Research and Development Cluster (Continued) J.S. Department of Interior (Concluded)				
National Land Remote Sensing-Education				
Outreach and Research:				
AMERI-StateView Program Development	15.815	AmericaView Inc	AV13-MI01	\$ 16,319
AMERI-StateView Program Develop YR2	15.815	America View Inc	AV13-MI01 GY14	25,352
				41,67
National Climate Change and Wildlife Science Center				
UNIVE-ESC-FFC-Spruce Fir-Ecosystems	15.820	University of Minnesota	SUBAWARD NO. H003897101	4,26
National Resource Stewardship: USPAR-ESC-FFC-Wolf Moose 2011-15	15.944	Direct	AGRMT# P11AC90808	38,73
	13.744	Direct	AGRMT# PTTAC90606	
Cooperative Research and Training Programs Resources				
of the National Park System:				
USPAR-MTRI-Lake Bottoms	15.945	Direct	TASK AGMT NO P12AC10449	6,53
USPAR-ESC-FFC-Hurricane River Road	15.945	Direct	COOPERATIVEAGREEMENTP13AC00845	4,64
USPAR-ESC-FFC-Assessment of Mercury	15.945	Direct	AGREEMENT P14AC00490	16,18 27,36
Fotal U.S. Department of Interior				477,876
J.S. Department of Labor				
Trade Adjustment Assistance Community College				
and Career Training (TAACCCT): BAYDE-PLC Education Simulation Game	17.282	Bay de Noc Community College	AGREEMENT DATED 4/2/14	65,95
1.5. Dependenced of Technologica				
J.S. Department of Transportation No CFDA Number:				
MITRA-MTTI-FNR-Unmanned Aerial Vehi	20.unk	Michigan Dept of Transportation	2013-0067 AUTH Z1 JOB #118059	53,99
CAMBR-MTTI-Road Practicioners	20.unk	Cambridge Systematics, Inc.	SUBCONTRACT #8738-001	31,59
NATIO-MTTI-Joint Deterioration Stud	20.unk	National Concrete Pavement Technology Center	ISU #474-17-40	4,659
IOWAS-IMP-Jointed Concrete Pavement	20.unk	Iowa State University	SUBCONTRACT #436-17-09B	13,849
MITRA-MTTI-Bridge Decks	20.unk	Michigan Dept of Transportation	2010-0295 AUTH 7 JOB#117429	39,45
MITRA-Wireless Data Collection	20.unk	Michigan Dept of Transportation	2013-0067 AUTH 2 JOB#121389	168,23
MITRA-MTTI-Improve Climatic Files	20.unk	Michigan Dept of Transportation	2013-0067 AUTH 3, JOB #121388	68,92
MITRA-MTTI-NURail Tier 1	20.unk	Michigan Dept of Transportation	2013-0067, AUTH Z11 JOB#126721	32,00
NATIO-Mapping Fire Danger	20.unk	National Center for Atmospheric Research	UCAR SUBCONTRACT NO. S15-13655	17,25
USTRA-Unpaved Road Conditions RS	20.unk	Direct	RITARS-11-H-MTU1	182,00
USTRA-APS-Locomotive Test	20.unk	Direct	DTFR53-13-P-00136	4,260
University Transportation Centers Program: OHIOS-Truck Activity and Wait Times	20.701	Ohio State University	SUBAWARD NO. 60041614	33,853
UNIVE-MTTI-FNR-Rail Corridors	20.701	University of Wisconsin-Madison	AGREEMENT 557K524	37,19
UNIVE-MTTI-NURail Education Center	20.701	University of Illinois at Urbana-Champaign	2012-02061-05-00 CODE:A0694	227,669
				298,71
Transportation Planning, Research and Education:				
USTRA-MTTI-Auto Scour Detect Arrays	20.931	Direct	RITARS-12-H-MTU	219,07
USTRA-MTTI-Sust Geotech Asset Mgmt	20.931	Direct	RITARS-14-H-MTU	366,830
UNIVE-MTTI-Risk Infrastructure	20.931	University of Arkansas	SA1509067	574
Fotal U.S. Department of Transportation				1,501,438
National Aeronautics and Space Administration				
No CFDA Number:	10 ·			
EXOTE-Asteroid Redirection	43.unk	Exo Terra Resource	MTU AGMT #1404013	9,29
UNIVE-EPSSI-FNR-NPP Ozone Mapping	43.unk	University of Maryland College Park	Z664401 PRIME NNX11AK95G	26,35
UNIVE-FNR-MSGC-Co-Crystals/Rocket	43.unk	University of Michigan	CHECK #2993583	1,89
UNIVE-MSGC-MTTI-FNR-Frozen Porous	43.unk	University of Michigan	CHECK 3328610	4,75
UNIVE-HICO Iden of Harmful Algal	43.unk 43.unk	University of Toledo Direct	SUB #F2015-78, #GA-2014-144	48,78
USNAS-FNR-CSERI-Pic of the Day USNAS-Vulnerability NA Boreal Peat	43.unk 43.unk	Direct	NNX09AD32G NNX09AM15G	48 17,19
USNAS-Witherability NA Bolear Pear USNAS-Multi-Scale Water Quality Grt	43.unk	Direct	NNX09AU88G	7,60
the match beate match quality of t				
USNAS-Harmful Algal Blooms	43.unk	Direct	NNC15VA51P	10,88

Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditures
Research and Development Cluster (Continued)				
National Aeronautics and Space Administration (Concluded)				
Science:				
USNAS-Remote Sensing Models	43.001	Direct	NNX11AC72G	\$ 181,455
USNAS-FNR-EPPSI- A-Train Volcano	43.001	Direct	NNX11AF42G	18,244
USNAS-Linking Remote Sensing	43.001	Direct	NNX12AQ89G	139,374
USNAS-Agricultural & Wildland Fire	43.001	Direct	NNX12AQ90G	6,040
USNAS-Anthropogenic Fires USNAS - EPSSI - FNR - Climatology	43.001 43.001	Direct Direct	NNX13AC66G NNX13AF50G	51,019 125,093
USNAS-EPSSI-FNR-Solar Activity	43.001	Direct	NNX13AF90G	107,014
USNAS-Linking Remote Sensing Data	43.001	Direct	NNX14AD63G	61,231
USNAS-GLRC-FNR-Spectral Character	43.001	Direct	NNX14AB80G	328,350
USNAS-GLRC-FNR-Changing Sea-Ice	43.001	Direct	NNX14AN78G	185,216
USNAS-Assessing Wetland Hydroperiod	43.001	Direct	NNX14AT45G	14,966
USNAS-Data on Boreal Wildfires	43.001	Direct	NNX15AD58G	59,973
BOWDO-Carbon Export Maine Coast	43.001	Bowdoin College	AGREEMENT NO 2011 001	81,820
CARNE-CO2 Monitoring Network	43.001	Carnegie Institute of Washington	SUBCONTRACT NO 9-10330-01	55,849
MASSA-GLRC-FNR-EcologicalVaiability	43.001	Massachusetts Institute of Technology	5710003376 PRIME 3NNX13AC34G	59,026
REGEN-Northern Peatland Ecosystems	43.001	Regents of the University of Minnesota	H004191701	42,016
UNIVE-FNR-EPSSI-Volcanic Sulfate	43.001	University of Nebraska - Lincoln	25-0514-0108-002 #NNX10AG60G	5,541
UNIVE-GLRC-Connecting Phytoplankton	43.001	University of Wisconsin-Madison	412K716 PRIME NNX11AD59G	3,112
UNIVE-MultSensor Record of Fire	43.001	University of Maryland	Z681801	104,181
UNIVE-EPSSI-FNR-Satellite Data	43.001	University of Maryland College Park	SUBAWARD NO. 19311-Z6929001	7,151
				1,636,671
Aeronautics:				
USNAS-FNR-MuSTI Noise Reduction App	43.002	Direct	NNX11AI72A	78,659
Constant Constants				
Cross Agency Support:	43.009	Direct		(519
USNAS-FNR-MuSTI-Mdl Polymer Nanocom	43.009	Direct Direct	NNX09AM50A NNX14AB05G	6,518
USNAS-MUSTI-FNR-Cryogenic	43.009	Direct	NNX 14ABUSG	326,202 332,720
Total National Aeronautics and Space Administration				2,175,293
National Science Foundation				
No CFDA Number:				
DETRO-IMP-4th Generation Steel wood	47.unk	Detroit Materials Inc	MTU AGREEMENT #1406002	32,657
JFDRA-Digital Technology Education	47.unk	J F Drake State Technical College	DPO-1201002 DUE-1205169	37,699
MICRO-Rapid Blood Typing	47.unk	Microdevice Engineering LLC	MTU AGMT #1312006	117,301
NANOI-MuSTI-Boron Nitride Nanotubes	47.unk	Nano Innovations, LLC	MTU #1302009	8,574
NITRA-IMP-Open Source Photometer	47.unk	Nitrate Elimination Co Inc	MICHIGAN TECH AGREEMENT #13110	98,748
QTEKL-IMP-Antimicrobial Plastic QTEKL-IMP-SBIR testing	47.unk 47.unk	Qtek LLC Qtek LLC	MICHIGAN TECH AGRMT #1311081 MTU#1408022	39,522 110
QIERL-IMP-SDIK LESLING	47.Ulik	Qtek ELC	MT0#1408022	110
				334,611
Engineering Grants:				334,611
Engineering Grants:	47 041	Direct	CRET 1034700	. <u></u>
NSF-CWS1-Mod Eval Hydro Micro DNAP	47.041 47 041	Direct	CBET-1034700 CBET-052218	12,837
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure	47.041	Direct	CBET-0952218	12,837 82,385
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-Meeting NAE Grand Challenge				12,837 82,385 126,058
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure	47.041 47.041	Direct Direct	CBET-0952218 EEC-1024628	12,837 82,385 126,058 15,473
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-Meeting NAE Grand Challenge NSF-Collaborative ISES Study	47.041 47.041 47.041	Direct Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220	12,837 82,385 126,058
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-Meeting NAE Grand Challenge NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater	47.041 47.041 47.041 47.041	Direct Direct Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818	12,837 82,385 126,058 15,473 22,283
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-Meeting NAE Grand Challenge NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard	47.041 47.041 47.041 47.041 47.041	Direct Direct Direct Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617	12,837 82,385 126,058 15,473 22,283 22,883
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-Meeting NAE Grand Challenge NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI Mainshock/Aftershock Seq	47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct Direct Direct Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423	12,837 82,385 126,058 15,473 22,283 22,883 45,634
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-Meeting NAE Grand Challenge NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI Mainshock/Aftershock Seq NSF-CISSIC-Near Ground Wireless	47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct Direct Direct Direct Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843	12,837 82,385 126,058 15,473 22,283 22,883 45,634 85,173
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-Meeting NAE Grand Challenge NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI Mainshock/Aftershock Seq NSF-CISSIC-Near Ground Wireless NSF-Making Optics from Scratch	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct Direct Direct Direct Direct Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443	12,837 82,385 126,058 15,473 22,283 45,634 85,173 39,395
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-Meeting NAE Grand Challenge NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI Mainshock/Aftershock Seq NSF-CISSIC-Near Ground Wireless NSF-Making Optics from Scratch NSF-Integrated Wind Turbine Blade NSF-InMP-Metal Matrix Composites NSF-PERC-Physical Power Systems	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200038 ECCS-1128512	12,837 82,385 126,058 15,473 22,283 22,883 45,634 85,173 39,395 23,837
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-Meeting NAE Grand Challenge NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-WZW Transp Shonnard NSF-SFI Mainshock/Aftershock Seq NSF-CISSIC-Near Ground Wireless NSF-Making Optics from Scratch NSF-Integrated Wind Turbine Blade NSF-IMP-Metal Matrix Composites NSF-IMP-Metal Matrix Composites NSF-IMP-SOLAR ENERGY CONVERSION	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750	12,837 82,385 126,058 15,473 22,283 45,634 85,173 39,395 23,837 58,663 43,652 48,743
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-APSRC-CAREER Fluid Structure NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI Mainshock/Aftershock Seq NSF-GISSIC-Near Ground Wireless NSF-Making Optics from Scratch NSF-Integrated Wind Turbine Blade NSF-IMP-Metal Matrix Composites NSF-PERC-Physical Power Systems NSF-IMP-SOLAR ENERGY CONVERSION NSF-SFI-Dust Mitigation	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750 CMMI-1234126	12,837 82,385 126,058 15,473 22,283 45,634 85,173 39,395 23,837 58,663 43,652 48,743 62,961
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-APSRC-CAREER Fluid Structure NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI Mainshock/Aftershock Seq NSF-Aaking Optics from Scratch NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-PERC-Physical Power Systems NSF-PERC-Physical Power Systems NSF-IMP-SOLAR ENERGY CONVERSION NSF-SFI-Dust Mitigation NSF-SFI-Gas Diffusion Electrode	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750 CMMI-1234126 CBET-1235782	12,837 82,385 126,058 15,473 22,283 22,883 45,634 48,173 39,395 23,837 58,663 43,652 48,743 62,961 7,815
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-APSRC-CAREER Fluid Structure NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-Nainshock/Aftershock Seq NSF-CISSIC-Near Ground Wireless NSF-INSIC-Near Ground Wireless NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-INE-RC-Physical Power Systems NSF-PERC-Physical Power Systems NSF-IMP-SOLAR ENERGY CONVERSION NSF-SFI-Dust Mitigation NSF-SFI-Gas Diffusion Electrode NSF-SFI-Electocatalytic Oxidation	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750 CMMI-1234126 CBET-1235982 CBET-1159448	12,837 82,385 126,058 15,473 22,283 45,634 85,173 39,395 23,837 58,663 43,652 48,743 62,961 7,815 1,866
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-Meeting NAE Grand Challenge NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-SFI Mainshock/Aftershock Seq NSF-CISSIC-Near Ground Wireless NSF-CISSIC-Near Ground Wireless NSF-Making Optics from Scratch NSF-Integrated Wind Turbine Blade NSF-IMP-Metal Matrix Composites NSF-PERC-Physical Power Systems NSF-IMP-SOLAR ENERGY CONVERSION NSF-SFI-Dust Mitigation NSF-SFI-Gas Diffusion Electrode NSF-SFI-Electocatalytic Oxidation NSF-BRC Preferential Hydration	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct	CBET-0952218 EEC-1024628 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750 CMMI-1234126 CBET-1235982 CBET-1159448 CBET-1159425	12,837 82,385 126,058 15,473 22,283 45,634 85,173 39,395 23,837 58,663 43,652 48,743 62,961 7,815 1,866 49,959
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-APSRC-CAREER Fluid Structure NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI Mainshock/Aftershock Seq NSF-Making Optics from Scratch NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-IMP-Metal Matrix Composites NSF-MP-Metal Matrix Composites NSF-PERC-Physical Power Systems NSF-IMP-SOLAR ENERGY CONVERSION NSF-SFI-Dust Mitigation NSF-SFI-Gas Diffusion Electrode NSF-SFI-Gas Diffusion Electrode NSF-SFI-BecCortallytic Oxidation NSF-SRC Preferential Hydration NSF-MUSTI-Intercalation in Cathodes	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750 CMMI-1234126 CBET-1123982 CBET-1159448 CBET-1159425 CMMI-1200383	12,837 82,385 126,058 15,473 22,283 45,634 85,173 39,395 23,837 58,663 43,652 48,743 62,961 7,815 1,866 49,959 12,856
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-APSRC-CAREER Fluid Structure NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-Mainshock/Aftershock Seq NSF-Aaking Optics from Scratch NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-IMP-Metal Matrix Composites NSF-PERC-Physical Power Systems NSF-IMP-SOLAR ENERGY CONVERSION NSF-SFI-Dust Mitigation NSF-SFI-Gas Diffusion Electrode NSF-SFI-Electocatalytic Oxidation NSF-SBC Preferential Hydration NSF-MUSTI-Intercalation in Cathodes NSF-SFI-Aerodynamic Vibration	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750 CMMI-1234126 CBET-1235750 CMMI-1234126 CBET-1159448 CBET-1159448 CBET-1159425 CMMI-1200383 CMMI-1300970	12,837 82,385 126,058 15,473 22,283 45,634 85,173 39,395 23,837 58,663 43,652 48,743 62,961 7,815 1,866 49,959 12,856 105,751
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-APSRC-CAREER Fluid Structure NSF-Meeting NAE Grand Challenge NSF-Collaborative ISES Study NSF-CWS1-IDR:Sustianable/Water NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-Mainshock/Aftershock Seq NSF-CISSIC-Near Ground Wireless NSF-Insegrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-INP-Metal Matrix Composites NSF-PERC-Physical Power Systems NSF-PERC-Physical Power Systems NSF-SFI-Dust Mitigation NSF-SFI-Gas Diffusion Electrode NSF-SFI-Gas Diffusion Electrode NSF-SFI-Electocatalytic Oxidation NSF-BRC Preferential Hydration NSF-BRC Preferential Hydration NSF-MUSTI-Intercalation in Cathodes NSF-SFI-Aerodynamic Vibration NSF-MuSTI-On-Chip Gas Generation	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750 CMMI-1234126 CBET-1235982 CBET-1159448 CBET-1159425 CMMI-1300970 CBET-1264549	12,837 82,385 126,058 15,473 22,283 45,634 85,173 39,395 23,837 758,663 43,652 48,743 62,961 7,815 1,866 49,959 12,856 105,751 2
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-Aeeting NAE Grand Challenge NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-ISSIC-Near Ground Wireless NSF-CISSIC-Near Ground Wireless NSF-INEgrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-INP-Metal Matrix Composites NSF-PERC-Physical Power Systems NSF-IMP-SOLAR ENERGY CONVERSION NSF-SFI-Dust Mitigation NSF-SFI-Dust Mitigation NSF-SFI-Electocatalytic Oxidation NSF-BRC Preferential Hydration NSF-MUSTI-Intercalation in Cathodes NSF-SFI-Aerodynamic Vibration NSF-MUSTI-On-Chip Gas Generation NSF-EPSSI-FNR-Damage Assessment	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct	CBET-0952218 EEC-1024628 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750 CMMI-1234126 CBET-1235782 CBET-1235982 CBET-1159448 CBET-1159448 CBET-1159425 CMMI-1200383 CMMI-1300970 CBET-1264549 CMMI-1300720	12,837 82,385 126,058 15,473 22,283 22,883 45,634 85,173 39,395 23,837 58,663 43,652 48,743 62,961 7,815 1,866 49,959 12,856 105,751 2 (05,751) 2 (05,751) 2 (05,751) 2 (05,751) 2 (05,751) (05,
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-APSRC-CAREER Fluid Structure NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI Mainshock/Aftershock Seq NSF-Making Optics from Scratch NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-IMP-Metal Matrix Composites NSF-MAP-Metal Matrix Composites NSF-IMP-SOLAR ENERGY CONVERSION NSF-SFI-Dust Mitigation NSF-SFI-Gas Diffusion Electrode NSF-SFI-Gas Diffusion Electrode NSF-SFI-Gas Diffusion Electrode NSF-SFI-Lectocatalytic Oxidation NSF-SRC Preferential Hydration NSF-MUSTI-Intercalation in Cathodes NSF-MJI-On-Chip Gas Generation NSF-MUSTI-On-Chip Gas Generation NSF-MUSTI-INC-On-Chip Gas Generation NSF-MUSTI-INC-Chip Gas Generation NSF-MUSTI-INC-SPI Shore Structure Sys	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECC5-1101843 ECC5-1202443 CMMI-1200061 CMMI-1200038 ECC5-1128512 CBET-1235750 CMMI-1235750 CMMI-1235982 CBET-1159448 CBET-1159425 CMMI-1200383 CMMI-1300720 IIP-1342892	12,837 82,385 126,058 15,473 22,283 22,883 22,883 45,634 85,173 39,395 23,837 58,663 43,652 48,743 62,961 7,815 1,866 105,751 2 2,856 105,751 2 2,61,360 (254)
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-APSRC-CAREER Fluid Structure NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI Mainshock/Aftershock Seq NSF-GISSIC-Near Ground Wireless NSF-Making Optics from Scratch NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-IMP-Metal Matrix Composites NSF-IMP-Metal Matrix Composites NSF-IMP-SOLAR ENERGY CONVERSION NSF-SFI-Dust Mitigation NSF-SFI-Gas Diffusion Electrode NSF-SFI-Electocatalytic Oxidation NSF-SFI-Aerodynamic Vibration NSF-MUSTI-Intercalation in Cathodes NSF-MUSTI-Intercalation in Cathodes NSF-MUSTI-Intercalation in Station NSF-MUSTI-Intercalation in Station	47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041 47.041	Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750 CMMI-1234126 CBET-1235750 CMMI-1234126 CBET-1159428 CBET-1159428 CBET-1159425 CMMI-1300970 CBET-1264549 CMMI-1300720 IIP-1342892 CMMI-1300286	12,837 82,385 126,058 15,473 22,283 45,634 85,652 85,663 85,655 85,663 85,6556 85,6556 85,6556 85,6556 85,6556 85,6556 85
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-APSRC-CAREER Fluid Structure NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-IMP-Metal Matrix Composites NSF-PERC-Physical Power Systems NSF-IMP-SOLAR ENERGY CONVERSION NSF-SFI-Dust Mitigation NSF-SFI-Gas Diffusion Electrode NSF-SFI-Gas Diffusion Electrode NSF-SFI-Electocatalytic Oxidation NSF-MUSTI-Intercalation in Cathodes NSF-SFI-Aerodynamic Vibration NSF-MUSTI-Intercalation in Cathodes NSF-FNL-FI-On-Chip Gas Generation NSF-MUSTI-On-Chip Gas Generation NSF-MUSTI-InCorps: Infrastructure Sys NSF-MTTI-Icorps: Infrastructure Sys NSF-APSRC-Combustion Engines	47.041 47.041	Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750 CMMI-1234126 CBET-1235782 CBET-1159448 CBET-1159448 CBET-1159448 CBET-1159425 CMMI-1300280 CMMI-1300286 CBET-1258720	12,837 82,385 126,058 15,473 22,283 45,634 85,173 39,395 23,837 58,663 43,652 48,743 62,961 7,815 1,866 49,959 12,856 105,751 2 61,360 (254) 17,987 203,862
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-APSRC-CAREER Fluid Structure NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-CISSIC-Near Ground Wireless NSF-CISSIC-Near Ground Wireless NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-INP-Metal Matrix Composites NSF-PERC-Physical Power Systems NSF-PERC-Physical Power Systems NSF-SFI-Dust Mitigation NSF-SFI-Dust Mitigation NSF-SFI-Gas Diffusion Electrode NSF-SFI-Electocatalytic Oxidation NSF-BRC Preferential Hydration NSF-BRC Preferential Hydration NSF-MUSTI-Intercalation in Cathodes NSF-SFI-Aerodynamic Vibration NSF-MUSTI-On-Chip Gas Generation NSF-MIDI-On-Chip Gas Generation NSF-MIDI-On-Chip Gas Generation NSF-MIDI-On-Chip Gas Generation NSF-MIDI-InsuchEM/Collaborative Rese NSF-MPSR-Combustion Engines NSF-MUSTI-High Voltage Temperature	47.041 47.041	Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750 CMMI-1234126 CBET-1235982 CBET-1159448 CBET-1159448 CBET-1159448 CBET-1159425 CMMI-1300970 CBET-1264549 CMMI-1300720 IIP-1342892 CMMI-1300286 CBET-1258720 IIP-1362040	12,837 82,385 126,058 15,473 22,283 45,634 85,173 39,395 23,837 58,663 43,652 48,743 62,961 7,815 1,866 49,959 12,856 105,751 2 61,360 (254) 17,987 203,862 37,359
NSF-CWS1-Mod Eval Hydro Micro DNAP NSF-APSRC-CAREER Fluid Structure NSF-Meeting NAE Grand Challenge NSF-Collaborative ISES Study NSF-CWS1-IDR:SustianableWater NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-RET-W2W Transp Shonnard NSF-SFI-Ret-W2W Transp Shonnard NSF-SFI-Ret-Tw2W Transp Shonnard NSF-CISSIC-Near Ground Wireless NSF-Making Optics from Scratch NSF-Integrated Wind Turbine Blade NSF-Integrated Wind Turbine Blade NSF-INP-Metal Matrix Composites NSF-PERC-Physical Power Systems NSF-IMP-SOLAR ENERGY CONVERSION NSF-SFI-Dust Mitigation NSF-SFI-Gas Diffusion Electrode NSF-SFI-Gas Diffusion Electrode NSF-SFI-Electocatalytic Oxidation NSF-SFI-Letectocatalytic Oxidation NSF-MUSTI-Intercalation in Cathodes NSF-SFI-Aerodynamic Vibration NSF-MUSTI-Ion-Chip Gas Generation NSF-MUSTI-Ion-Chip Gas Generation NSF-MTTI-ICorps: Infrastructure Sys NSF-MTTI-ICOPS: Infrastructure Sys NSF-ANTTI-SuSCHEM/Collaborative Rese NSF-APSRC-Combustion Engines	47.041 47.041	Direct Direct	CBET-0952218 EEC-1024628 EEC-1025220 CBET-1014818 EEC-1009617 CMMI-1100423 ECCS-1101843 ECCS-1202443 CMMI-1200061 CMMI-1200061 CMMI-1200038 ECCS-1128512 CBET-1235750 CMMI-1234126 CBET-1235782 CBET-1159448 CBET-1159448 CBET-1159448 CBET-1159425 CMMI-1300280 CMMI-1300286 CBET-1258720	12,837 82,385 126,058 15,473 22,283 45,634 85,173 39,395 23,837 58,663 43,652 48,743 62,961 7,815 1,866 49,959 12,856 105,751 2 61,360 (254) 17,987 203,862

Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federa Expendit
rederal Agency / ofdater / rogram rite	Number	i iii ougi		Experiant
earch and Development Cluster (Continued) ional Science Foundation (Continued)				
ngineering Grants (Concluded):				
NSF-MuSTI-FNR-Millmeter Scale Flow	47.041	Direct	CBET-1402702	\$ 128,
NSF-APS-GOALI: Easily Verifiable	47.041	Direct	CMMI-1435257	46,
NSF-CWS-Molecular Level Investigati	47.041	Direct	CBET-1435926	72,
NSF-BRC-CAREER:Improved Virus Remov	47.041	Direct	1451959	, <i>1</i> , 5,
NSF-Cognitive Radio Networks	47.041	Direct	1523965	35,
NSF-ILI-I-Corps Site Program	47.041	Direct	1450364	6,
NSF-LSTI-GOALI:Graphen PaperSensor	47.041	Direct	1510006	
UNIV-GLRC-STOP WORK-Underwater Ante	47.041	University of Connecticut	SUBAWARD NO. 62719	<u>11,</u> 1,769,
athematical and Dhusical Sciences				
athematical and Physical Sciences: NSF-Bound & Continuum Properties	47.049	Direct	PHY-0968205	17,
NSF-BRC-Purification Synth Peptide	47.049	Direct	CHE-1111192	,
NSF-MuSTI-Cellulose Nanocrystals	47.049	Direct	DMR-1100806	51,
NSF-SFI-Hydrocarbon Transportation	47.049	Direct	CHE-1230803	559,
NSF-Numerical Methods Transmission	47.049	Direct	DMS-1321391	59,
NSF-MuSTI Functional Boron Nitride	47.049	Direct	DMR-1261910	147,
NSF-EPSSI-Cosmic Ray Acceleration	47.049	Direct	PHY-1307289 AMEND NO 1	181,
NSF-Hyperbolic Conservation Laws	47.049	Direct	DMS-1316662	70,
NSF-Workshop on Algebraic Design	47.049	Direct	DMS-1439448	7
VSF-MUSTI-CAREER-Biomineralization	47.049	Direct	DMR-1350734	46
NSF-MOSTI-CAREER-DIOITINETalization NSF-BRC-Tunable Nitric Oxide	47.049			184
		Direct	DMR-1410192	
NSF-MuSTI-Metal Oxides	47.049	Direct	DMR-1410560	10
NSF-IMP-Domain Mechanisms	47.049	Direct	DMR-1409317	26
				1,363
osciences:	17 050			
NSF-EPSSI-IceNucleiInContactMode	47.050	Direct	AGS-1028998	35
NSF-EPSSI-Cloud Turbulence	47.050	Direct	AGS-1026123	172
NSF-EPSSI-MRI Dev Multiphase Turb	47.050	Direct	AGS-1039742	262
SF-RSI-CAREER Volcano-Seismic	47.050	Direct	EAR-1053794	81
NSF-CAREER Flood Risk Projections	47.050	Direct	EAR-1053655	25
NSF-Geomagnetic Mafic Dikes India	47.050	Direct	EAR-1112952	47
VSF-EPPSI-FREE Tropospheric Aerosol	47.050	Direct	AGS-1110059	93
NSF-EPSSI-Physical/Radar Meteor	47.050	Direct	AGS-1119164	66
NSF-EPSSI-CAREER-Magnet Fingerprint	47.050	Direct	EAR-1149434	56
NSF-Mid-Contient Rift System	47.050	Direct	EAR-1148321	68
NSF-CWS2-South Florida Water	47.050	Direct	EAR-1204474	145
NSF-EPSSI-Rock Magnetometer	47.050	Direct	EAR-1160854	
NSF-CWS2-Impacts of Global Transpor	47.050	Direct	ICER-1313755	608
NATIO-GLRC-Continuation of MPOWIR	47.050	Direct	OCE-1356212	3
NTER-Bioenergy Development	47.050	InterAmerican Institute for Global Change Research	GRANT AGREEMENT FOR CRNIII	60
JNIVE-GLRC-Detect Microcystis Bloom	47.050	University of New Hampshire	SUB NO. 13-061, #OCE-1313783	10
-	47.050		SUB 14-066, PRIME ICER-1313804	
JNIVE-CWS-Experimental Frameworks		University of New Hampshire	,	31
JNIVE-RUI: Probing Caldera-Forming	47.050	University of Wisconsin-Oshkosh	13309302013-1NSF	33 1,804
mputer and Information Science and Engineering:	47.070	Direct		
VATIO-NSF-CAREER-Model-Nxt-Gen-Sys	47.070	Direct	CCF-0643664	6
NSF-Framework for Algorithmic	47.070	Direct	CCF-1116546	45
NSF-CCSR-Virtual Environment System	47.070	Direct	CNS-1229297	38
ISF-Graph-Based Visual Analytics	47.070	Direct	IIS-1319363	21
ISF-CCSR-Graph Sparsification	47.070	Direct	CCF-1318694	47
ISF-CCSR-CAREER-Integrated Research	47.070	Direct	CCF-1349984	67
ISF-CAREER-Heterogeneous Manycore	47.070	Direct	CCF-1350206	30
ISF-EAGER Imperative Programs	47.070	Direct	CCF-1450062	82
ISF-CCSR-Collaborative Research	47.070	Direct	CNS-1422342	39
NSF-AIM- Architecture Optimization	47.070	Direct	CNS-1446622	33
VSF-GLRC-CAREER:Autonomous System	47.070	Direct	1453886	4
JNIVE-CGV:Big Scientific Data	47.070	University of Notre Dame	202405MTU PRIME: IIS-1456763	38 455
		Direct	DEB-1019928	28
-	47 074			161
NSF-ESC-FFC-Predation Eco System	47.074		DEB_1144140	
VSF-ESC-FFC-Predation Eco System VSF-ESC-FFC-PEATLAND ECOSYSTEMS	47.074	Direct	DEB-1146149	
NS ^{T-} ESC-FFC-Predation Eco System NSF-ESC-FFC-PEATLAND ECOSYSTEMS NSF-BRC-EAGER-DNA Synthesis	47.074 47.074	Direct Direct	DBI-1225720	
VS ^{T-} ESC-FFC-Predation Eco System VSF-ESC-FFC-PEATLAND ECOSYSTEMS VSF-BRC-EAGER-DNA Synthesis VSF-ESC-FFC-FNR-Nitrate Deposition	47.074 47.074 47.074	Direct Direct Direct	DBI-1225720 DEB-1251529	49
NS ^{T-} ESC-FFC-Predation Eco System NSF-ESC-FFC-PEATLAND ECOSYSTEMS NSF-BRC-EAGER-DNA Synthesis NSF-ESC-FFC-FNR-Nitrate Deposition	47.074 47.074	Direct Direct	DBI-1225720	49
ISF-ESC-FFC-Predation Eco System ISF-ESC-FFC-PEATLAND ECOSYSTEMS ISF-BRC-EAGER-DNA Synthesis ISF-ESC-FFC-FNR-Nitrate Deposition ISF-BRC-Targeting microRNAs	47.074 47.074 47.074	Direct Direct Direct	DBI-1225720 DEB-1251529	49 539
VSF-ESC-FFC-Predation Eco System VSF-ESC-FFC-PEATLAND ECOSYSTEMS VSF-BSC-EAGER-DNA Synthesis VSF-ESC-FFC-FNR-Nitrate Deposition VSF-BRC-Targeting microRNAs VSF-FFC-ESC-Peatland C Fluxes	47.074 47.074 47.074 47.074	Direct Direct Direct Direct	DBI-1225720 DEB-1251529 IOS-1340001 DEB-1354370	49 539 6
VS ^F -ESC-FFC-Predation Eco System VSF-ESC-FFC-PEATLAND ECOSYSTEMS VSF-BRC-EACER-DNA Synthesis VSF-ESC-FFC-FNR-Nitrate Deposition VSF-ERC-Targeting microRNAs VSF-FFC-ESC-Peatland C Fluxes VSF-CCSR-IDBR Unconventional Antenn	47.074 47.074 47.074 47.074 47.074 47.074	Direct Direct Direct Direct Direct Direct	DBI-1225720 DEB-1251529 IOS-1340001 DEB-1354370 DBI-1353664	49 539 6 60
VSF-ESC-FFC-Predation Eco System VSF-ESC-FFC-PEATLAND ECOSYSTEMS VSF-BRC-EAGER-DNA Synthesis VSF-BRC-FACFNR-Nitrate Deposition VSF-BRC-Targeting microRNAs VSF-FC-ESC-Peatland C Fluxes VSF-CCSR-IDBR Unconventional Antenn VSF-ESC-FFC-LTREB Terrestrial Chain	47.074 47.074 47.074 47.074 47.074 47.074 47.074	Direct Direct Direct Direct Direct Direct Direct	DBI-1225720 DEB-1251529 IOS-1340001 DEB-13534370 DBI-1353364 1453041	49 539 6 60 16
VSF-ESC-FFC-Predation Eco System VSF-ESC-FFC-PEATLAND ECOSYSTEMS VSF-BRC-EAGER-DNA Synthesis VSF-BRC-Targeting microRNAs VSF-FFC-Targeting microRNAs VSF-FFC-ESC-Peatland C Fluxes VSF-CSR-IDBR Unconventional Antenn VSF-ESC-FFC-LTREB Terrestrial Chain VSF-ESC-FNR-Career Riverine Ecosys	47.074 47.074 47.074 47.074 47.074 47.074 47.074 47.074	Direct Direct Direct Direct Direct Direct Direct Direct	DBI-1225720 DEB-1251529 IOS-1340001 DEB-1354370 DBI-1353664 1453041 1451919	5 49 539 6 60 16 26
ological Sciences: NSF-ESC-FFC-Predation Eco System NSF-ESC-FFC-PEATLAND ECOSYSTEMS NSF-BRC-EAGER-DNA Synthesis NSF-BRC-Targeting microRNAs NSF-FSC-FFC-Peatland C Fluxes NSF-CSR-IDBR Unconventional Antenn NSF-ESC-FFC-LTREB Terrestrial Chain NSF-ESC-FFC-LTREB Terrestrial Chain NSF-ESC-FFC-BRC-Stress in Wood VIRGI-BRC-Diphospho Triphospho Inos	47.074 47.074 47.074 47.074 47.074 47.074 47.074	Direct Direct Direct Direct Direct Direct Direct	DBI-1225720 DEB-1251529 IOS-1340001 DEB-13534370 DBI-1353364 1453041	49 539 6 60 16

Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2015

For the Year Ended June 30, 2015				
Endored Arganic (Cluster (December 71))	CFDA	Passed	Pass-through /	Federal
Federal Agency / Cluster / Program Title	Number	Through	Grantor Number	Expenditures
Research and Development Cluster (Continued)				
National Science Foundation (Concluded)				
Social, Behavioral, and Economic Sciences:				
NSF-IMP-Ceramic Rehydroxylation	47.075	Direct	BCS-1219540	\$ 43,721
NSF-CAREER-Numeracy & Risk Literacy	47.075	Direct	SES-1253263	116,334
NSF-Self-Regulated Forest Sustain	47.075	Direct	SES-1251932	3,851
NSF-GLRC-Toxic Iron-Mining Contam	47.075	Direct	SES-1430755	<u>60,657</u> 224,563
Education and Human Resources:				
NSF-EPSSI-Cyber Volcano Hazards Mod	47.076	Direct	DRL-0940883	46,148
NSF-Learning Through EFELTS	47.076	Direct	DUE-1023022	14,466
NSF-CAREER Math Moments Instru	47.076	Direct	DRL-1052958	101,046
NSF-ILI-Ethical Reasoning & Climate	47.076	Direct	DUE-1122390	6,000
NSF-Teaching IT Security	47.076	Direct	DUE-1140308	21,025
NSF-Modern Cryprography	47.076	Direct	DUE-1140512	12,625
NSF-Theory of Productive Math Use	47.076	Direct	AMENDMENT NO. 002	31,665
NSF-Acessible Access Control	47.076	Direct	DUE-1245310	109,912
NSF-Revamping Robotics Education	47.076	Direct	1501335	12,205
REGEN-ILI-Microaggressions in Teams	47.076	Regents of the University of Michigan	SUBCONTRACT NO: 3003298295	43,416
				398,508
Polar Programs:				
NSF-Measuring Nitrogen Oxide GEO	47.078	Direct	ARC-1107398	56,937
NSF - Clean Snowmobile Challenge	47.078	Direct	ARC-1062619	<u>6,000</u> 62,937
Office of International and Integrative Activities:				
NSF-SFI-Bioenergy Development	47.079	Direct	OISE-1243444	1,137,594
NSF-FNR-US-China-Germany Planning	47.079	Direct	IIA-1427665	23,027
		Direct	114 1 12/003	1,160,621
Office of Cyberinfrastructure:				
NSF-CWS2-Environmental CyberCitizen	47.080	Direct	OCI-1135523	71,014
Total National Science Foundation				8,560,045
J.S. Environmental Protection Agency				
No CFDA Number:				
BATTE-Long Term Satellite	66.unk	Battelle	US001-0000427998	24,500
BATTE-GLRC-Erie Phosphorus Model	66.unk	Battelle	LETTER SUBCONTRACT 431347	56,793
ICFIN-Rangeland Fires Prototype	66.unk	ICF International	EP-BPA-12-H-002-BO#14KJBO0014	<u>5,271</u> 86,564
Great Lakes Program:				
USENV-Wetland Map Protocol	66.469	Direct	GL-00E00559-0	22,310
USENV-GLRC-Eurasian Watermilfoil	66.469	Direct	GL-00E01291-0	254,815
		Direct		277,125
Science To Achieve Results (STAR) Research Program:				
USENV-EPSSI-Extreme Event Impacts	66.509	Direct	RD-83518901-0	91,560
Consolidated Research/Training/Fellowships: WATER-Removal of VOCS from Water	66 E11	Water Percarch Foundation		14 110
	66.511	Water Research Foundation	PROJECT NUMBER 04439	16,419
National Student Design Competition for Sustainability: USENV-GLRC-Geothermal Energy Harnes	66.516	Direct	SU-83569201	9,224
Total U.S. Environmental Protection Agency				·
5 5				480,892
I.S. Department of Energy No CFDA Number:				
ARGON-MIMC-Networked Microgrids	81.unk	Argonne National Laboratory	SUBCONTRACT NO. 3F-32461	31,978
BATTE-SFI-Pyrolysis of Waste	81.unk	Battelle Energy Alliance, LLC	CONTRACT #154519	11,455
BATTE-APS-Paddle Fast Pyrolysis	81.unk	Battelle Energy Alliance	CONTRACT #154517	6,714
GASTE-SFI-Hydropyrolysis Integrated	81.unk	Gas Technology Institute	PRIME #DE-EE0005992	133,595
LANZA-SFI-Life Cycle Assess	81.unk	LanzaTech Inc	DOE DE-FOA-0000467	3,238
PACIF-MuSTI-Situ Liquid Microscopy	81.unk	Pacific Northwest National Lab	241405	24,967
SANDI-AIM-Advanced Control Micro	81.unk	Sandia National Laboratories	PO#1416260	45,359
SANDI-AIM-FNR-Wave Energy Converter	81.unk	Sandia National Laboratories	PO#1514349	14,818
UCHIC-IMP-High Energy Lithium	81.unk	UChicago Argonne LLC	4F-30001	12,514
ARGON-MuSTI-New Sulfur-Carbon Catho	81.unk	Argonne National Laboratory	SUBCONTRACT NO. 4F31422	18,042
		J		302,680
				302,080

Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2015

Advances 91.00		CFDA	Passed	Pass-through /	Federal
13. Dipartment of Energy (Conclusion) 9.00 0.00	Federal Agency / Cluster / Program Title	Number	Through	Grantor Number	Expenditure
Office of Science Francial Available Program: 81.69 Direct D62400099 (Research and Development Cluster (Concluded)				
USDE (250) Direct DE Company Direct DE Company Direct DE Company Direct Direct <thdirect< th=""> <thdirect< th=""> Direct</thdirect<></thdirect<>	U.S. Department of Energy (Concluded)				
DBSR Ed. Conf. C. Marker And Proc. DEFE DEFE State Conf. Conf. Conf. Wood Status 3.35 DBSR Ed. Conf. Conf. Wood Status 8.1.09 Direct Direct Direct Conf.	Office of Science Financial Assistance Program:				
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NIH-BRC-Lymphatic Collecting93.837Direct1 R15 HL113954-0131,07NIH-BRC-Small Diameter Blood Vessel93.837Direct1 R15HL115521-01A1204,84NIH-BRC-Rats with High Salt Intake93.837Direct1 R15HL1122952-01A175,24JillionJillionJillion1 R15HL122952-01A175,24JillionJillionJillion1 R15HL122952-01A175,24JillionJillionJillion1 R15HL122919-0162,98Biomedical Research:IR15HL122919-0162,98NIH-BRC-Enhance Barcode Readability93.859Direct1 R15 GM088795-013NIH-BRC-Eloid Research and Research Training:Irect1 R15 GM088795-013NIH-BRC-Eloid Research and Research 201893.859Direct1 R15 GM0888795-013NIH-BRC-Lysosomal pH in Living Cell93.859Direct1 R15 GM14751-013,00NIH-SRC-Lysosomal pH in Living Cell93.859Direct1 R15 GM14751-013,00NIH-SRC-Honsine S93.865Direct7R03HD069737-021,27NIH-Net Migration Estimates93.865Direct5R01HD031476-14 P066369516919,83NEWYO-NRI Robotic Orchestration ASD93.865New York Institute of TechnologySUB NO.1 PRIME 1R01HD082914-0131,85Sub No.1 PRIME 1R01HD082914-0131,85Sub York Institute of Technology31,8531,85					
NIH-BRC-Small Diameter Blood Vessel93.837Direct1R15HL15521-01A1204,84NIH-BRC-Rats with High Salt Intake93.837Direct1R15HL122952-01A175,24Lung Diseases Research: NIH-BRC-Sleep Deprivation in Women93.838DirectIR15HL122919-0162,98Biomedical Research and Research Training: NIH-BRC-Enhance Barcode Readability93.859Direct1 R15 GM088795-0131,16NIH-BRC-Sloep Deprivation in Women93.859Direct1 R15 GM088795-0132,365NIH-BRC-Sloep Collide93.859Direct1 R15 GM104846-01123,366NIH-BRC-Oligodeoxynucleotide93.859Direct1 R15 GM104846-01123,366NIH-BRC-Lysosomal pH in Living Cell93.859Direct1 R15 GM114751-013,00NIH-LSTI-Adhesive PEG-fibrinogen93.859Direct1 R15 GM114751-013,00NIH-Net Migration Estimates93.865Direct7R03HD069737-021,27MAYOM-MuSTI-Intramuscular Pressure93.865Mayo Clinic Rochester5R01HD031476-14 P0/#6369516919,83NEWYO-NRI Robotic Orchestration ASD93.865New York Institute of TechnologySUB N0.1 PRIME 1R01HD082914-0131,85Sub No.1 PRIME 1R01HD082914-0131,8531,8531,85		02.027			
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311,16 Lung Diseases Research: NIH-BRC-Sleep Deprivation in Women 93.838 Biomedical Research and Research Training: NIH-BRC-Enhance Barcode Readability 93.859 Direct 1 R15 GM088795-01 NIH-BRC-Oligodeoxynucleotide 93.859 NIH-BRC-Oligodeoxynucleotide 93.859 NIH-BRC-Lysosomal pH in Living Cell 93.859 Direct 1 R15 GM104846-01 NIH-SRC-Lysosomal pH in Living Cell 93.859 Direct 1 R15 GM114751-01 Opiect 1 R15 GM112082-01 Opiect 1 R15 GM112082-01 NIH-SRC-Lysosomal pH in Living Cell 93.859 Direct 1 R15 GM112082-01 Opiect 1 R15 GM112082-01 NIH-Net Migration Estimates 93.865 NIH-Net Migration Estimates 93.865 NEWYO-NRI Robotic Orchestration ASD 93.865 New York Institute of Technology SUB NO.1 PRIME					
Lung Diseases Research: NIH-BRC-Sleep Deprivation in Women93.838DirectIR15HL122919-0162,98Biomedical Research and Research Training:NIH-BRC-Enhance Barcode Readability93.859Direct1 R15 GM088795-013NIH-BRC-Ciligodeoxynucleotide93.859Direct1 R15 GM104846-01123,86NIH-BRC-Lysosomal pH in Living Cell93.859Direct1 R15 GM114751-013,00NIH-BRC-Lysosomal pH in Living Cell93.859Direct1 R15 GM112082-0167,70Child Health and Human Development Extramural Research: NIH-Net Migration Estimates93.865Direct7R03HD069737-021,27MAYOM-MuSTI-Intramuscular Pressure93.865Mayo Clinic Rochester5R01HD031476-14 P0#6369516919,83NEWYO-NRI Robotic Orchestration ASD93.865New York Institute of TechnologySUB NO.1 PRIME 1R01HD082914-0131,8552,96	NIH-BRC-Rats with High Salt Intake	93.837	Direct	1R15HL122952-01A1	
NÎH-BRC-Sleep Deprivation in Women93.838DirectIR15HL122919-0162,98Biomedical Research and Research Training:NIH-BRC-Enhance Barcode Readability93.859Direct1 R15 GM088795-013NIH-BRC-Biomimetic Tissue Adhesive93.859Direct1 R15 GM104846-01123,86NIH-BRC-Oligodeoxynucleotide93.859Direct1 R15 GM109288-0173,31NIH-BRC-Lysosomal pH in Living Cell93.859Direct1 R15 GM114751-013,00NIH-LSTI-Adhesive PEG-fibrinogen93.859Direct1 R15 GM112082-016,70Child Health and Human Development Extramural Research: NIH-Net Migration Estimates93.865Direct7R03HD069737-021,27MAYOM-MuSTI-Intramuscular Pressure93.865Mayo Clinic Rochester5R01HD031476-14 P0#6369516919,83NEWYO-NRI Robotic Orchestration ASD93.865New York Institute of TechnologySUB NO.1 PRIME 1R01HD082914-0131,85					311,160
Biomedical Research and Research Training: NIH-BRC-Enhance Barcode Readability 93.859 Direct 1 R15 GM088795-01 3 NIH-BRC-Biomimetic Tissue Adhesive 93.859 Direct 1 R15 GM104846-01 123,86 NIH-BRC-Oligodeoxynucleotide 93.859 Direct 1 R15 GM109288-01 73,31 NIH-BRC-Lysosomal pH in Living Cell 93.859 Direct 1 R15 GM114751-01 3,00 NIH-LSTI-Adhesive PEG-fibrinogen 93.859 Direct 1 R15 GM112082-01 6,70 206,91 Child Health and Human Development Extramural Research: NIH-Net Migration Estimates 93.865 Direct 7R03HD069737-02 1,27 MAYOM-MuSTI-Intramuscular Pressure 93.865 Mayo Clinic Rochester 5R01HD031476-14 P0#63695169 19,83 NEWYO-NRI Robotic Orchestration ASD 93.865 New York Institute of Technology SUB NO.1 PRIME 1R01HD082914-01 31,85 52,96					
NIH-BRC-Enhance Barcode Readability93.859Direct1 R15 GM088795-013 3NIH-BRC-Biomimetic Tissue Adhesive93.859Direct1 R15 GM104846-01123,86NIH-BRC-Oligodeoxynucleotide93.859Direct1 R15 GM109288-0173,31NIH-BRC-Lysosomal pH in Living Cell93.859Direct1 R15 GM109288-0173,31NIH-BRC-Isposomal pH in Living Cell93.859Direct1 R15 GM112082-016,70VIH-LSTI-Adhesive PEG-fibrinogen93.859Direct1 R15 GM112082-016,70VIH-Net Migration Estimates93.865Direct7R03HD069737-021,27MAYOM-MuSTI-Intranuscular Pressure93.865Mayo Clinic Rochester5R01HD031476-14 P0#6369516919,83NEWYO-NRI Robotic Orchestration ASD93.865New York Institute of TechnologySUB NO.1 PRIME 1R01HD082914-0131,8552,966	NIH-BRC-Sleep Deprivation in Women	93.838	Direct	IR15HL122919-01	62,981
NIH-BRC-Enhance Barcode Readability93.859Direct1 R15 GM088795-013 3NIH-BRC-Biomimetic Tissue Adhesive93.859Direct1 R15 GM104846-01123,86NIH-BRC-Oligodeoxynucleotide93.859Direct1 R15 GM109288-0173,31NIH-BRC-Lysosomal pH in Living Cell93.859Direct1 R15 GM109288-0173,31NIH-BRC-Isposomal pH in Living Cell93.859Direct1 R15 GM112082-016,70VIH-LSTI-Adhesive PEG-fibrinogen93.859Direct1 R15 GM112082-016,70VIH-Net Migration Estimates93.865Direct7R03HD069737-021,27MAYOM-MuSTI-Intranuscular Pressure93.865Mayo Clinic Rochester5R01HD031476-14 P0#6369516919,83NEWYO-NRI Robotic Orchestration ASD93.865New York Institute of TechnologySUB NO.1 PRIME 1R01HD082914-0131,8552,966	Riemodical Possarch and Possarch Training				
NIH-BRC-Biomimetic Tissue Adhesive93.859Direct1 R15 GM104846-01123,86NIH-BRC-Oligodeoxynucleotide93.859Direct1 R15 GM104288-0173,31NIH-BRC-Lysosomal pH in Living Cell93.859Direct1 R15 GM114751-013,00NIH-LSTI-Adhesive PEG-fibrinogen93.859Direct1 R15 GM112082-016,70Child Health and Human Development Extramural Research:NIH-Net Migration Estimates93.865Direct7R03HD069737-021,27MAYOM-MuSTI-Intramuscular Pressure93.865Mayo Clinic Rochester5R01HD031476-14 P0#6369516919,83NEWYO-NRI Robotic Orchestration ASD93.865New York Institute of TechnologySUB NO.1 PRIME 1R01HD082914-0131,85		02 950	Direct	1 015 CHO00705 04	•
NIH-BRC-Oligodeoxynucleotide93.859Direct1R15GM109288-0173,31NIH-BRC-Lysosomal pH in Living Cell93.859Direct1 R15 GM114751-013,00NIH-LSTI-Adhesive PEG-fibrinogen93.859Direct1R15GM112082-016,70Child Health and Human Development Extramural Research:1111NIH-Net Migration Estimates93.865Direct7R03HD069737-021,27MAYOM-MuSTI-Intramuscular Pressure93.865Mayo Clinic Rochester5R01HD031476-14 P0#6369516919,83NEWYO-NRI Robotic Orchestration ASD93.865New York Institute of TechnologySUB NO.1 PRIME 1R01HD082914-0131,8552,96					
NIH-BRC-Lysosomal pH in Living Cell 93.859 Direct 1 R15 GM114751-01 3,00 NIH-LSTI-Adhesive PEG-fibrinogen 93.859 Direct 1R15GM112082-01 6,70 Child Health and Human Development Extramural Research: 206,91 NIH-Net Migration Estimates 93.865 Direct 7R03HD069737-02 1,27 MAYOM-MuSTI-Intramuscular Pressure 93.865 Mayo Clinic Rochester 5R01HD031476-14 P0#63695169 19,83 NEWYO-NRI Robotic Orchestration ASD 93.865 New York Institute of Technology SUB NO.1 PRIME 1R01HD082914-01 31,85					
NIH-LSTI-Adhesive PEG-fibrinogen 93.859 Direct 1R15GM112082-01 6,70 Child Health and Human Development Extramural Research: 206,91 NIH-Net Migration Estimates 93.865 Direct 7R03HD069737-02 1,27 MAYOM-MuSTI-Intramuscular Pressure 93.865 Mayo Clinic Rochester 5R01HD031476-14 P0#63695169 19,83 NEWYO-NRI Robotic Orchestration ASD 93.865 New York Institute of Technology SUB N0.1 PRIME 1R01HD082914-01 31,85	5 ,				
Child Health and Human Development Extramural Research: 206,91 NIH-Net Migration Estimates 93.865 Direct 7R03HD069737-02 1,27 MAYOM-MuSTI-Intramuscular Pressure 93.865 Mayo Clinic Rochester 5R01HD031476-14 P0#63695169 19,83 NEWYO-NRI Robotic Orchestration ASD 93.865 New York Institute of Technology SUB NO.1 PRIME 1R01HD082914-01 31,85 52,966					6,700
Child Health and Human Development Extramural Research:NIH-Net Migration Estimates93.865Direct7R03HD069737-021,27MAYOM-MuSTI-Intramuscular Pressure93.865Mayo Clinic Rochester5R01HD031476-14 PO#6369516919,83NEWYO-NRI Robotic Orchestration ASD93.865New York Institute of TechnologySUB NO.1 PRIME 1R01HD082914-0131,8552,966		/5.05/	Direct	1113GAT 12002-01	206,918
NIH-Net Migration Estimates93.865Direct7R03HD069737-021,27MAYOM-MuSTI-Intranuscular Pressure93.865Mayo Clinic Rochester5R01HD031476-14 P0#6369516919,83NEWYO-NRI Robotic Orchestration ASD93.865New York Institute of TechnologySUB NO.1 PRIME 1R01HD082914-0131,8552,966					
MAYOM-MuSTI-Intramuscular Pressure 93.865 Mayo Clinic Rochester 5R01HD031476-14 PO#63695169 19,83 NEWYO-NRI Robotic Orchestration ASD 93.865 New York Institute of Technology SUB NO.1 PRIME 1R01HD082914-01 31,85 52,96			Direct	700310070737 03	4 27
NEWYO-NRI Robotic Orchestration ASD 93.865 New York Institute of Technology SUB NO.1 PRIME 1R01HD082914-01 31,85 52,96	-				
52,96			-		
	NEWTO-NKI KODOTIC UPCNESTRATION ASD	73.000	New York institute of Technology	SUB NU.1 PRIME 1R01HD082914-01	
Fotal U.S. Department of Health and Human Services					52,96
	Total II.S. Department of Health and Human Services				886,099

Total Research and Development Cluster

28,692,093 continued...

Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2015

For the Year Ended June 30, 2015					
Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditures	
		Ÿ			
Other Programs U.S. Department of Agriculture					
No CFDA Number:					
USAGR-ESC-FFC-Fire Preparedness	10.unk	Direct	15-CS-11242306-044	\$ 276	
USAGR-ESC-FFC-Climate Chage Science	10.unk	Direct	09-PA-11242306-142	5,717	
USAGR-ESC-FFC-Ed/Outrch Climate Chg USAGR-ESC-FFC-Instruct Climate	10.unk 10.unk	Direct Direct	11-CR-11242306-124 12-JV-11242306-130	122,532 9,263	
USAGR-ESC-FFC-Belowground Ecosystem	10.unk	Direct	13-JV-11242306-039	9,203 74,241	
	Toronik	2		212,029	
Child and Adult Care Food Program	10.558	Michigan Dept of Education	-n/a-	10,745	
Forestry Research: USAGR-ESC-FFC-Climate Change Silvi	10.652	Direct	11-CA-11330124-051	18,872	
Cooperative Forestry Assistance: USAGR-SFI-Develop Forest Stewards	10.664	Direct	11-DG-11420004-234	3,690	
Total U.S. Department of Agriculture				245,336	
U.S. Department of Commerce					
Economic Development Technical Assistance:					
USCOM-Economic Dev in Central UP	11.303	Direct	EDA AWARD #06-06-05950	1,395	
U.S. Department of Interior					
No CFDA Number:	4E	One has West instantian different day		42.205	
OZAUK-ESC-FFC-Landbird Migration USPAR-ESC-FFC-Isle Roy Inst Support	15.unk 15.unk	Ozaukee Washington Land Trust, Inc. Direct	AGREEMENT DATED 11/22/2013 TASK AGRMT NO P09AC00199	12,305 22,930	
John Payne - Intergovernmental Pers	15.unk	Direct	IPA EXTENSION DATE 3/20/15	277,367	
Total U.S. Department of Interior				312,602	
U.S. Department of Labor Mine Health and Safety Grants:					
USLAB-FY13 Mine Safety	17.600	Direct	MS-24591-13-55-R-26	(14,114)	
USLAB-FY14 Mine Safety	17.600	Direct	MS-25890-14-55-R-26	209,039	
Total U.S. Department of Labor				194,925	
U.S. Department of Transportation					
No CFDA Number:					
MITRA-MTTI-TDG-Roadsoft 2015	20.unk	Michigan Dept of Transportation	2014-0952 AUTH Z5 JOB#126501	418,785	
MITRA-PIOI-NST Institute 2014	20.unk	Michigan Dept of Transportation	2014-0557	53,600	
MITRA-PIOI-NST Institute 2015	20.unk	Michigan Dept of Transportation	CONTRACT NO. 2015-0238	1,765	
MITRA-MTTI-TDG-2014 LTAP	20.unk	Michigan Dept of Transportation	2010-0470 AUTH Z8,Z9,Z10	60,153	
MITRA-MTTI-Bridge Design Analysis MITRA-MTTI-TDG-2015 LTAP	20.unk 20.unk	Michigan Dept of Transportation	CONTRACT NO. 2013-0506	239,687	
MITRA-MITI-TDG-2015 LTAP MITRA-MTTI-Roadsoft/MDOT Safety Uni	20.unk 20.unk	Michigan Dept of Transportation Michigan Dept of Transportation	2015-0027 AUTH Z1, Z2 & Z3 2014-0952, JOB #109731	357,623 63,945	
MITRA-MTTI-MERL 2015	20.unk	Michigan Dept of Transportation	2011-0063 Z5 JOB#126532	46,780	
MITRA-MTTI-TDG-Roadsoft 2014	20.unk	Michigan Dept of Transportation	2013-0067 AUTH Z9 #122402	340,580	
MITRA-MTTI-MERL 2014	20.unk	Michigan Dept of Transportation	2011-0063 AUTH Z4 JOB #122555	47,229	
				1,030,147	
Highway Research and Development Program: USTRA-MTTI-MI Tribal Technical Asst	20.200	Direct	DTFH61-09-H-00001	(214)	
USTRA-MTTI-Eastern Region TTAP Cntr	20.200	Direct	DTFH6114H00006	294,287	
-				294,073	
University Transportation Centers Program:	20.701	University of Winnersin Medicer	AGREEMENT #394K026	29 724	
UNIVE-21st Century Education	20.701	University of Wisconsin-Madison	AGREEMENT #394K026	38,731	
Total U.S. Department of Transportation				1,962,951	
National Aeronautics and Space Administration					
No CFDA Number: UNIVE-MSGC-Magnesium Alloy Stents	43.unk	University of Michigan	CHECK#2993583	(100)	
UNIVE-MSGC-Corrosion/Bioabsorb Matl	43.unk	University of Michigan	CHECK#2993583	(100)	
UNIVE-MSGC-Copper-Vermiculite Fillr	43.unk	University of Michigan	CHECK #2993583	130	
UNIVE-MSGC-FNR-Field Training	43.unk	University of Michigan	CHECK#2993583	8,600	
UNIVE-MSGC-ILI-FY14-Administrative	43.unk	University of Michigan	CHECK #3144891	1,628	
UNIVE-MSGC-Exploring the Geology	43.unk	University of Michigan	CHECK # 3238610	4,679	
UNIVE-MSGC-GLRC-Phytoplankton	43.unk	University of Michigan	CHECK#3238610	1,667	
UNIVE-MSGC-Zinc-Magnesium Alloys UNIVE-MSGC-Native American InvolvP2	43.unk 43.unk	University of Michigan University of Michigan	CHECK#3238610 CHECK #3238610	2,769 1,830	
UNIVE-MSGC-APSRC-High Impact STEM	43.unk 43.unk	University of Michigan	CHECK #3238610 CHECK# 3238610	3,747	
UNIVE-MSGC-Geotechnical Features	43.unk	University of Michigan	CHECK# 3238610 CHECK #3238610	3,373	
UNIVE-MSGC-Quantity and Biodegrad	43.unk	University of Michigan	CHECK #3238610	3,547	
UNIVE-MSGC-Thermal Remote Sensing	43.unk	University of Michigan	CHECK #3238610	5,000	
UNIVE-MSGC-GLRC-FNR-Teacher Develop	43.unk	University of Michigan	CHECK# 3238610	6,523	
UNIVE-MSGC-ILI-FY15-Administrative	43.unk	University of Michigan	CHECK #3238610	1,330	

Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditures
Other Programs (Continued)				
National Aeronautics and Space Administration (Concluded)				
No CFDA Number (Concluded):				
UNIVE-MSGC-FNR-Engineering Olympics	43.unk	University of Michigan	CHECK #328610	\$ 6,591
UNIVE-MSGC-Secondary Lymphedema	43.unk	University of Michigan	CHECK#3238610	2,494
UNIVE-MSGC-FNR-ROVS Teaching STEM Z	43.unk	University of Michigan	CHECK #3238610	7,500
UNIVE-MSGC-GLRC-Yu Fellowship	43.unk	University of Michigan	CHECK #3516896 PO#3003524633	2,500
UNIVE-MSGC-Zwissler Fellowship	43.unk	University of Michigan	CHECK#3516896 PO#3003524633	658
	-5.unk	University of Michigan	CHECK#331007010#3003324033	64,625
Science:				
USNAS-FNR-S. China-fellowship	43.001	Direct	NNX12AN97H	1,995
USNAS-FNR-Wright Fellowship	43.001	Direct	NNX13AN68H	30,693
USNAS-FNR-LSchaefer-fellowship	43.001	Direct	NNX13AO50H	29,849
USNAS-FNR-V. Flower Fellowship	43.001	Direct	NNX14AK94H	25,000
USNAS-EPSSI-FNR-Astronomy Picture	43.001	Direct	NNX14AP36G	46,652
USINAS-LESSI-I INCASCIONOMY FICCULE	45.001	Direct	NIX PAP SOC	134,189
Education:				
USNAS-FNR-MuSTI-KTerhune fellowship	43.008	Direct	NNX13AM73H	57,564
Total National Aeronautics and Space Administration				256,378
National Endowment for the Humanities				
Promotion of the Arts Partnership Agreements:	15 005			
They All Die in the End: A Theatri The Acting Company presents William	45.025 45.025	Michigan Council for Arts & Cultural Affairs Arts Midwest	14OP0254PS FY15-104	4,450 3,000
Total National Endowment for the Humanities				7,450
National Science Foundation				· · · · ·
National Science Foundation No CFDA Number:				
	47.unk	Direct	FCCC 12124/4	108,129
NSF - IPA Assignment			ECCS-1212464	,
NSF-IPA Assignment P Murthy	47.unk	Direct	DGE-1261336	185,801 293,930
Engineering Grants:				
NSF-SFI-Biofuels and Bioenergy	47.041	Direct	CBET-1140152	217,927
Geosciences:				
NSF-Ethics Education 2.0	47.050	Direct	GEO-0933026	18,358
Computer and Information Science and Engineering:				
NSF-GLRC-NRI:Co-Robots to Engage	47.070	Direct	IIS-1426989	55,129
Biological Sciences:				
NSF-ESC-FFC-Ford Center Improvement	47.074	Direct	DBI-1226627	104,461
Education and Human Resources:				
NSF-EPSSI MITEP: Improving Earth	47.076	Direct	DUE-0831948	372,074
NSF-FNR-MTU SSEED Support4EngDegree	47.076	Direct	DUE-0965996	161,834
NSF-E. Petushek Fellowship	47.076	Direct	DGE-1051031 AMEND NO 002	2,667
NSF-M. Hopkins Fellowship	47.076	Direct	DGE-1051031	23,299
NSF-J Fuller Fellowship	47.076	Direct	DGE-1051031 AMEND NO 004	44,000
NSF-D Cerminaro Fellowship	47.076	Direct	DGE-1051031 AMEND. NO. 005	23,354
NSF-Professoriate Progression	47.076	Direct	HRD-1305678	51,879
NSF-B Winter Fellowship	47.076	Direct	DGE-1051031	45,271
NSF-C. Meingast Fellowship	47.076	Direct	AMENTMENT NO.007	41,333
				765,711
Office of Cyberinfrastructure: NSF-CWS2-Environmental CyberCitizen	47.080	Direct	OCI-1135523	13,335
	-7.000	Direct	UCC (TJJJLJ	
ARRA- Trans-NSF Recovery Act Research Support: NSF-ARRA-FNR-CWS1-GK12-Huckins	47.082	Direct	DGE-0841073	415,639
NSF-FNR-ARRA-R Noyce Teacher Scholr	47.082	Direct	DUE-0934763	415,639
NSF-FNR-ARRA-R NOYCE TEACHER SCHOU	47.082	Direct	DUE-0934763	4,709
Total National Science Foundation				1,889,199
				.,,
Small Business Administration Small Business Development Centers:				
SIXCO-Small Business Tech Dev	59.037	Six County Employment Alliance	CONTRACT AGREEMENT	13,712

Schedule of Expenditures of Federal Awards

	CFDA	Passed	Pass-through /	Federal
Federal Agency / Cluster / Program Title	Number	Through	Grantor Number	Expenditures
ther Programs (Concluded)				
S. Department of Education				
Graduate Assistance in Areas of National Need:				
USEDU-ASISC-FNR-GAANN: Chem Eng Flw	84.200	Direct	P200A090124	\$ 6,071
Gaining Early Awareness and Readiness				
for Undergraduate Programs:				
MILAB-GEAR UP 2014	84.334	Michigan Dept of Labor & Economic Growth	GRANT NUMBER: 13-00-07	36,451
MILAB-GEAR UP 2015	84.334	Michigan Dept of Labor & Economic Growth	GRANT NUMBER: 14-00-07	30,181
				66,632
Improving Teacher Quality State Grants:				
MIEDU-EPDIS- Biological Sciences	84.367B	Michigan Department of Education	130290-018	96,457
MIEDU-EPDIS- Mathematical Practice	84.367B	Michigan Department of Education	140290-016	83,012
				179,469
otal U.S. Department of Education				252,172
otal Other Programs				5,136,120
otal Expenditures of Federal Awards				\$71,242,904
				concluded

concluded

Notes to Schedule of Expenditures of Federal Awards

1. BASIS OF PRESENTATION

The accompanying schedule of expenditures of federal awards (the "Schedule") includes the federal grant activity of Michigan Technological University (the "University") under programs of the federal government for the year ended June 30, 2015. The information in this schedule is presented in accordance with the requirements of the Office of Management and Budget (OMB) Circular A-133, *Audits of States, Local Governments, and Non-Profit Organizations.* Because the schedule presents only a selected portion of the operations of the University, it is not intended to and does not present the financial position, changes in net position or cash flows of the University.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Expenditures reported on the Schedule are reported on the accrual basis of accounting, which is described in Note 1 to the University's financial statements. Such expenditures are recognized following the cost principles contained in OMB Circular A-21, *Cost Principles for Educational Institutions*, wherein certain types of expenditures are not allowable or are limited as to reimbursement. Negative amounts shown on the Schedule represent adjustments or credits made in the normal course of business to amounts reported as expenditures in prior years. Pass-through entity identifying numbers are presented where available.

3. SUBRECIPIENTS

The University administers certain federal awards programs through subrecipients. Those subrecipients are not considered part of the University's reporting entity. Of the federal expenditures presented in the Schedule, the University provided federal awards to subrecipients as follows:

		Amount Provided to	
Program Title	CFDA Number	Subrecipients	
Department of Agriculture	10.unk	\$ 9,263	
Forestry Research	10.652	17,156	
Climate and Atmospheric Research	11.431	12,310	
Department of Defense	12.unk	945,684	
Basic and Applied Scientific Research	12.300	767	
Air Force Defense Research Sciences Program	12.800	88,584	
Department of Transportation	20.unk	60,436	
University Transportation Centers Program	20.701	19,618	
Transportation Planning, Research and Education	20.931	200,079	
Science	43.001	444,406	
Cross Agency Support	43.009	89,785	
Engineering Grants	47.041	143,961	
Geosciences	47.050	271,546	
Biological Sciences	47.074	234,410	
Education and Human Resources	47.076	148,288	
Office of International and Integrative Activities	47.079	403,428	
Office of Cyberinfrastructure	47.080	2,466	
ARRA- Trans-Nsf Recovery Act Research Support	47.082	20,875	
Small Business Development Centers	59.037	12,284	
Great Lakes Program	66.469	31,837	
Department of Energy	81.unk	2,113	

Notes to Schedule of Expenditures of Federal Awards

Program Title	CFDA Number	Amount Provided to Subrecipients	
Office of Science Financial Assistance Program	81.049	\$	71,223
Fund for the Improvement of			
Postsecondary Education	84.116		39,691
Discovery and Applied Research for Technological			
Innovations to Improve Human Health	93.286		(951)
Child Health and Human Development	93.865		1,629
Total provided to subrecipients		\$	3,270,888

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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*

November 13, 2015

To the Board of Trustees Michigan Technological University Houghton, Michigan

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 *Michigan Technological University* (the "University"), as of and for the year ended June 30, 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 November 13, 2015.

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 opinion 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 entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control such that so prevented of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

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

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the University's 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 results of that testing, and not to provide an opinion on the effectiveness of the University's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Rehmann Loham LLC



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INDEPENDENT AUDITORS' REPORT ON COMPLIANCE FOR EACH MAJOR FEDERAL PROGRAM AND ON INTERNAL CONTROL OVER COMPLIANCE REQUIRED BY OMB CIRCULAR A-133

November 13, 2015

To the Board of Trustees Michigan Technological University Houghton, Michigan

Report on Compliance for Each Major Federal Program

We have audited the compliance of *Michigan Technological University* (the "University") with the types of compliance requirements described in the *2 CFR 200 Compliance Supplement* that could have a direct and material effect on each of the University's major federal programs for the year ended June 30, 2015. The University's major federal programs are identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs.

Management's Responsibility

Management is responsible for compliance with the requirements of laws, regulations, contracts, and grants applicable to its federal programs.

Independent 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 OMB Circular A-133, *Audits of States, Local Governments, and Non-Profit Organizations.* Those standards and OMB Circular A-133 require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

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

Opinion on Each Major Federal Program

In our opinion, the University complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2015.

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 OMB Circular A-133, but not for the purpose of expressing an opinion on the effectiveness of 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 of deficiencies, in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance of a federal program that is less severe that a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

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

Purpose of this Report

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 OMB Circular A-133. Accordingly, this report is not suitable for any other purpose.

Rehmann Loham LLC

Schedule of Findings and Questioned Costs For the Year Ended June 30, 2015

SECTION I - SUMMARY OF AUDITORS' RESULTS

Financial Statements			
Type of auditors' report issued:	Unmodified		
Internal control over financial reporting:			
Material weakness(es) identified?	yes <u>X</u> no		
Significant deficiency(ies) identified?	yes <u>X</u> none reported		
Noncompliance material to financial statements noted?	yes <u>X</u> no		
Federal Awards			
Internal control over major programs:			
Material weakness(es) identified?	yes <u>X</u> no		
Significant deficiency(ies) identified?	yes <u>X</u> none reported		
Type of auditors' report issued on compliance for major programs:	Unmodified		
Any audit findings disclosed that are required to be reported in accordance with Circular A-133, Section 510(a)?	yes <u>X</u> no		
Identification of major programs:			
CFDA Number	Name of Federal Program or Cluster		
84.007, 84.033, 84.038, 84.063, 84.268 Various	Student Financial Assistance Cluster Research and Development Cluster		
Dollar threshold used to distinguish between Type A and Type B programs:	\$ 2,137,287		
Auditee qualified as low-risk auditee?	<u>X</u> yes no		

Schedule of Findings and Questioned Costs For the Year Ended June 30, 2015

SECTION II - FINANCIAL STATEMENT FINDINGS

None reported.

Schedule of Findings and Questioned Costs For the Year Ended June 30, 2015

SECTION III - FEDERAL AWARD FINDINGS AND QUESTIONED COSTS

None reported.

Summary Schedule of Prior Audit Findings For the Year Ended June 30, 2015

None reported.
