

**UNIVERSITY OF SOUTH CAROLINA**

**OMB CIRCULAR A-133 REPORTS**

**FOR THE YEAR ENDED  
JUNE 30, 2009**

**UNIVERSITY OF SOUTH CAROLINA  
OMB CIRCULAR A-133 REPORTS**

**CONTENTS**

	<b><u>PAGE</u></b>
<b>SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS</b>	1 - 26
<b>NOTES TO SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS</b>	27 - 28
<b>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</b>	29 - 30
<b>REPORT ON COMPLIANCE WITH REQUIREMENTS APPLICABLE TO EACH MAJOR PROGRAM AND INTERNAL CONTROL OVER COMPLIANCE IN ACCORDANCE WITH OMB CIRCULAR A-133 AND ON THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS</b>	31 - 32
<b>SCHEDULE OF FINDINGS</b>	33

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>Research and Development Cluster</b>			
<b>National Academy of Sciences</b>			
Passed through programs from:			
University of South Carolina Research Foundation			
Strategic Support for the University Industry Demonstration Partnership	00.RD	PGA-5866-07-001	\$ 317,441
<b>Total National Academy of Sciences</b>			<b>317,441</b>
<b>US Department of Agriculture</b>			
Passed through programs from:			
University of South Carolina Research Foundation			
Characterization of Olfactory Proteins of the Yellow Fever Mosquito Aedes asgypti as Targets for the Study of Chemosensory Deterrents	10.RD	58-1275-7-360	55,146
Regulation of Iron Uptake in Arabidopsis Thaliana	10.RD	20043510014934	93,553
The Role of GATA4 and its Phosphorylation Status in Porcine Follicular Development and Luteal Function	10.RD	20073520318060	122,814
Socially Responsible Advertising and Promotion of Food, Fiber and Related Products: Developing an Integrated Set of Undergraduate Courses	10.RD	G-1596-2	15,013
Assessing Alternative Policies for Improving the School Food Environment	10.RD	59-5000-7-0119	108,225
Francis Marion and Sumter National Forest GIS Digital Update	10.RD	07PA11081209005	22,812
Bioelectrolytic System for the Treatment of Tannery Wastewater	10.RD	58-3148-5-050	8,023
Child, Mother, and Other Adult Perspectives, Interactions, Negotiations, and Choices About Food in Rural and Urban Food-Insecure Households in South Carolina	10.RD	018000321104-09	4,718
Acquisition of Goods and Services for Dr. Dawn Gundersen: Full Genome Pyrosequencing of Insecticidal Bacillus Strains	10.RD	58-1275-8-389	41,926
Assessment Matrix Development, Rapid Watershed Updates, and Technical Development/Support	10.RD	68-4639-6-6008	91,288
Natural Resource Technology Transfer for SC USDA Natural Resources Conservation Service	10.RD	A-3A75-8-68	98,679
Lower Enoree Archaeological Survey	10.RD	AG4670C-07-0134	42,886
<b>Total US Department of Agriculture</b>			<b>705,083</b>
<b>US Department of Commerce</b>			
Passed through programs from:			
South Carolina Research Foundation			
Center for Integrated Information Systems: Establishment of a Southeast Regional Integration Testbed	11.RD	NA08NOS4000476	13,475
North Inlet-Winyah Bay National Estuarine Research Reserve, Georgetown, S.X. Education and Training Center - Phase III - Exhibits	11.RD	NA06NOS4200041	544,264
Continuing Support of the NERR Centralized Data Management Office	11.RD	NA06NOS4200109	38,183
North Inlet-Winyah Bay National Estuarine Research Reserve	11.RD	NA06NOS4200119	39,631
Investigating Coastal Salt Marsh Belowground Carbon Dynamics in North Inlet, SC, USA	11.RD	NA07NOS4200037	9,380
Anthropogenic Effects on Genetic Diversity and Population Structure of Grass Shrimp (Palaemonetes) in South Carolina Tidal Creeks	11.RD	NA07NOS4200038	11,875
North Inlet-Winyah Bay National Estuarine Research Reserve	11.RD	NA07NOS4200115	61,897
Continuing Support of the National Estuarine Research Reserve System Centralized Data Management Office	11.RD	NA07NOS4200123	284,699
North Inlet-Winyah Bay NERR Education and Training Center - Phase IIb - Outdoor Classroom Construction	11.RD	NA08NOS4200305	16,463
Continuing Support of the National Estuarine Research Reserve System Centralized Data Management Office	11.RD	NA08NOS4200350	34,914
North Inlet-Winyah Bay National Estuarine Research Reserve.	11.RD	NA08NOS4200353	496,080
The Relative Influence of Underwater Light and Oyster Grazing on Phytoplankton Community Composition in North Inlet Estuary, South Carolina	11.RD	NA09NOS4200051	1,515
Use of Soil Moisture Observations for Improved Prediction of the North American Monsoon Precipitation	11.RD	NA04OAR4310165	1,365
Acoustic Measurements of Particulate Organic Carbon Concentration in the Coastal Ocean	11.RD	NA04OAR431099	179
Integrating Climate Science and Water Management in the Carolinas	11.RD	NA06OAR4310007	47,210
Integrating Climate Science and Water Management in the Carolinas	11.RD	NA06OAR4310007	114,434
Integrating Climate Information into Coastal Management Decisions	11.RD	SC SEA GRT/RC01	17,316
Marfin: Genetic Stock Identification and Dispersal in Black Sea Bass (Centropristis Striata) Along the Western Atlantic Coast	11.RD	NA07NMF4330118	37,114
Carolina Coastal Ocean Observing and Predicting System (Caro-COOPS)	11.RD	NA16RP2543	67,472
Integration of Coastal Observations and Assets in the Carolinas in Support of RCOOS Development in SECOORA	11.RD	515170-07	82,266
Integration of Coastal Observations and Assets in the Carolinas in Support of RCOOS Development in SECOORA	11.RD	515170-07-02	305,437
Opportunity to participate in the proposed project entitled "Expansion of the Carolinas Coast Marine Weather Template within the SECOORA Region"	11.RD	515180-08-1	53,286
Integrating and Disseminating Historic and Current SWMP Data via the IOOS Initiative	11.RD	NERRA	27,022
Ecological Effects of Sea-Level Rise on Coastal North Carolina Marshes	11.RD	NA04NOS4780264	306,028
Ecological Effects of Sea-Level Rise on Coastal North Carolina Marshes	11.RD	NA04NOS4780264	14,353
ECOFOR 2004: Climate Change and Intertidal Risk Analysis	11.RD	NA05NOS4781185	25,886
Self Powered Wireless Sensor Network for Structural Bridge Health Prognosis	11.RD	70NANB9H9007	89,589
Self Powered Wireless Sensor Network for Structural Bridge Health Prognosis	11.RD	70NANB9H9007	13,600
Evaluating the Japanese Outbound Tourism Market-DOC	11.RD	DG1350-08SE3880	20,688
Technical Assistance in Marine Ecosystem Health Research: Analytical Molecular Toxicology of Endocrine Disrupting Chemicals and Environmental Epidemiology for Surveillance Purposes	11.RD	EA133C07SC5227	12,822
In Situ Validation of a HF Coastal Radar	11.RD	372/0000003485	9,281

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Department of Commerce, continued</b>			
Coastal Carolina University			
Identification of Coastal Hypoxia Mechanisms in Inner Shelf Waters of Long Bay, South Carolina	11.RD	CCU2007.01	3,735
Geochemical Characteristics of Submarine Groundwater Seeps on the South Carolina Continental Shelf	11.RD	2008.001	19,362
Geochemical Characteristics of Submarine Groundwater Seeps on the South Carolina Continental Shelf	11.RD	2009.001/R470	18,153
Marc Mascolo Skidaway Institute of Oceanography			
In Situ Validation of a HF Coastal Radar (Training on WERA Operation and Maintenance)	11.RD	373/300009	17,539
South Carolina Department of Natural Resources			
Nutrient and Phytoplankton Samples from ACE Basin National Estuarine Research Reserve	11.RD	00780-8100/NA07	10,107
South Carolina Department of Health and Environmental Control			
SCDHEC - Office of Ocean and Coastal Resources Management Joint Faculty Position in Applied Coastal Zone Management: Year 3	11.RD	PO #748531	23,175
South Carolina Department of Natural Resources			
Investigation and Mitigation of Algal Blooms and Pollutants in Coastal Stormwater Ponds and Adjacent Tidal Creek and Estuarine Systems	11.RD	PO#000720	4,299
South Carolina Sea Grant Consortium			
Numerical Study of the Physical Conditions that Lead to Hypoxia Events in Long Bay, SC.	11.RD	R269	15,716
The Implementation of Low Impact Development Practices for Coastal South Carolina: The Oak Terrace Preserve Research Project	11.RD	R476	9,305
An Assessment of Stormwater Best Management Practices for Coastal South Carolina: The Oak Terrace Preserver Monitoring Project	11.RD	SC SEA GRT/R276	27,384
Physical Controls on Benthic Fluxes of Microalgae and Particulate Organic Matter in Estuarine Environments	11.RD	SC SEA GRT/R369	56,496
The Implementation of Low Impact Development Practices for Coastal South Carolina: The Oak Terrace Preserve Research Project	11.RD	SC SEA GRT/R376	31,091
An Integrated Hydrologic and Ecological Study of Salt Marsh Dynamics	11.RD	SC SEA GRT/R380	23,259
Physical Controls on Benthic Fluxes of Microalgae and Particulate Organic Matter in Estuarine Environments	11.RD	SC SEA GRT/R469	2,952
SECOORA ODP Information Management Seed Grant	11.RD	S203	4,129
SECOORA ODP Information Management Seed Grant	11.RD	S403	11,940
Integrating Terrestrial, Estuarine and Marine Observing Systems in Support of an Improved Understanding of Hypoxic Events in Long Bay, SC	11.RD	SC SEA GRT S104	1,155
Implementation of Regional Integrated Ocean Observing Systems Support of RCOOS Development in SECOORA: Data Management - USC (Years 1-3)	11.RD	SC SEA GRT/S453	64,332
Development of a Conceptual Model for an Integrated Coastal Prediction and Forecasting Initiative	11.RD	RL01-LUCESII	22,172
An Assessment of Stormwater Best Management Practices for Coastal South Carolina: The Oak Terrace Preserver Monitoring Project	11.RD	SC SEA GRT/R176	178
Potential Impacts of Upstream Land Use Change on Phytoplankton Community Dynamics in Winyah Bay, SC	11.RD	SC SEA GRT/R274	21,825
Urbanization and Southeastern Estuarine Systems (USES)	11.RD	V475	27,602
Assessing the Impact of Salt-Water Intrusion in the Carolinas under Future Climatic and Sea -Level Conditions	11.RD	SA02	1,049
Assessing the Impact of Salt-Water Intrusion in the Carolinas under Future Climatic and Sea -Level Conditions	11.RD	SA-03	407
South Carolina CIDEEP Integration Effort	11.RD	SC SEA GRT/RL08	14,988
Enhancing the Regional Coastal Ocean Observing System in the Southeastern United States: SECOORA Information Management/Ocean Data Partnership-USC	11.RD	SEA GRT/S358	105,877
The Discovery of Novel Bacterial Antibiotic Resistance Genes in Activated Sludge Using a Metagenomic Approach (Miguel Uyaguari)	11.RD	R536	5,994
Environmental Risk Assessment of the Antibiotic Florfenicol Used in Aquaculture	11.RD	SC SEA GRT/R527	16,040
Isolation of Fecal Coliform Bacteria from the American Alligator (Alligator Mississippiensis)	11.RD	SC SEA GRT/R528	18,600
Isolation of Fecal Coliform Bacteria from the American Alligator (Alligator Mississippiensis) (Michelle Johnston)	11.RD	SC SEA GRT/R534	7,173
<b>Total US Department of Commerce</b>			<b>3,383,758</b>
<b>US Department of Defense</b>			
Passed through programs from:			
South Carolina Research Foundation			
Vanadium Steel Non-Standard (not a standard military bridge set) Fixed Bridge Case Study Proposal	12.RD	2005-638	117,150
SEA-COOS	12.RD	3-12110-04 YR4	287
Reformate Impurity Effects on High Temperature PBI FC Membranes	12.RD	A11949	54,300
High Performance Integrated Insulated-Gate III-Nitride RF Switches	12.RD	A12026	23,820
Phase ii Evaluation of Archaeological Sites 38RD702 and 38RD705 Fort Jackson, South Carolina	12.RD	DAMD17-01-20003	962
STTR Phase II: Rechargeable Lithium Battery Operating Life Model	12.RD	HQ0006-06-7381	10,832
STTR Phase III - Virtual Cell Testing Li-ion Battery Model Project	12.RD	HQ0006-06-C7381	26,563
Analysis and Numerical Algorithms for Data Processing and Fast Solution of PDEs	12.RD	N00014-03-10051	64,531
Real Time Measurements of Sediment Modification by Large Macrofauna	12.RD	N00014-03-10352	73,684
Nonlinear methods for supervised Learning: Defense Applications	12.RD	N00014-05-10715	2,000
Personal Power Network	12.RD	N00014-07-10025	120,294
AlGaIn Based Deep Ultraviolet Injection Lasers	12.RD	N00014-07-10161	59,582
Frequency-Agile Wide-Bandwidth Power Interface to Support Incremental Virtual Prototyping	12.RD	N00014-07-10603	235,711
Development of System Level Modeling and Simulation Capability for SIC Power Semiconductor Devices	12.RD	N00014-07-10611	360,211
Infusion of a Gaming Paradigm into Computer-Aided Engineering Design Tools	12.RD	N00014-07-10686	270,846
Uncertainty-based, Self-configuring Simulation for Design Support	12.RD	N00014-07-10818	47,464
Computer Modeling, Simulation and Analysis at the Conceptual Phase of Ship Design	12.RD	N00014-07-10967	20,694
Capturing Sparsity in High Dimensional Data (Full Proposal)	12.RD	N00014-07-10978	206,622
Characterization of 4H-SiC Epitaxial Films Grown Using Halo Based Precursors to Evaluate Material Quality	12.RD	N00014-07-11123	2,624

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Department of Defense, continued</b>			
South Carolina Research Foundation, continued			
High Speed Turbo-Generator: Test Stand Simulator Including Turbine Engine Emulator	12.RD	N00014-08-10180	65,113
Remote Detection of High Explosive Vapors/Residues using Micro-Impulse Radar with Selective Multiphoton Laser Ionization and Sample Ablation (Micro-Impulse REMPI RADAR)	12.RD	N00014-08-10357	276,617
Fundamental Studies on a Liquid Tin-based SOFC System	12.RD	N00014-08-10962	165,136
Computational Foundation for Investigations in Capturing Sparsity in Very High Dimensions	12.RD	N00014-08-10996	106,351
Growth of Thick Epitaxial Layers on 4H-SiC Substrates Using Chlorine Chemistry for High Power Applications	12.RD	N00014-09-10319	55,684
Scalability of Service-Oriented Applications	12.RD	N00244-09-C0009	50,676
Excavations in the Vicinity of the Santa Elena Kiln, Parris Island, South Carolina	12.RD	N62467-05-M9324	1,818
Power Electronics, Architecture, Controls, and Design Tools for Electric Ship Systems.	12.RD	R00908	1,324,957
In Situ Studies of the Decomposition of Simulated Chemical Warfare Agents on Nanoparticle Catalysis Center One at Fort Jackson	12.RD	W911NF-05-10184	55,942
	12.RD	W9124D-08-T0083	7,923
Hierarchical Assembled "Nano-Trojan Horse" for Treatment of Brain Metastatic Breast Cancer	12.RD	07Y1-1	59,752
Hierarchical Assembled "Nano-Trojan Horse" for Treatment of Brain Metastatic Breast Cancer	12.RD	07Y1-2	70,591
Eight Archaeological Site Evaluations, Ten Late Discoveries, and Two Boundary Definitions	12.RD	DAMD17-01-20003	167,745
Brain Imaging Research: The Detection of Deception Utilizing HD-ERP, FMRI, and Pupillometry	12.RD	W81XWH-06-10272	265,507
MURI: Bio-Directed Hierarchical Assembly of Multifunctional Materials	12.RD	PD#0001104934	173,248
Advanced Mathematical Methods for Processing Large Data Sets	12.RD	W911NF-05-10227	17,656
Dynamic Characterization of Advanced Material Systems	12.RD	W911NF-06-10216	85,020
Effects of Quercetin Feedings on Susceptibility to Respiratory Infection Following Exercise Stress:			
Role of Lung Macrophages	12.RD	W911NF-07-10140	344,619
Model Classes, Approximation, and Metrics for Dynamic Processing of Urban Terrain Data	12.RD	W911NF-07-10185	782,502
Integrated Sensor Technologies for Chemical, Biological, and Radiation Detection	12.RD	W911NF-07-10320	601,068
Nanoscale Deformation and Toughening Mechanisms of Nacre	12.RD	W911NF-07-10449	101,700
Sensing Biological, Chemical, and Radiation Hazards in Harsh Environments	12.RD	W911NF-08-0299	154,639
InGaN Based High Power Visible Lasers	12.RD	W911NF-08-10001	473,432
Are the Pili Produced by Electrogenic Bacteria Bionanowires	12.RD	W911NF-08-10387	36,507
Acquisition of Bacterial Fermenter	12.RD	W911NF-08-10451	37,314
Bio Templated Synthesis of Composite Nano "Yin Yang"-Rod	12.RD	W911NF-09-10236	10,865
Identification of Blast Pressure Distributions from Explosions Using Full-field Surface Deformation Measurements and Advanced Inverse Analysis Methods	12.RD	Z849901	67,628
DEPSCOR 08 - Polymer Nanocomposites as Future Materials for Defense and Energy Applications: High Energy Density Storage Systems with Reduced Size and Weight for Pulse Power Applications	12.RD	FA9550-08-10377	134,800
DEPSCOR 08 - Polymer Nanocomposites as Future Materials for Defense and Energy Applications: High Energy Density Storage Systems with Reduced Size and Weight for Pulse Power Applications	12.RD	FA9550-08-10377	145,802
DEPSCOR 08 - Polymer Nanocomposites as Future Materials for Defense and Energy Applications: High Energy Density Storage Systems with Reduced Size and Weight for Pulse Power Applications	12.RD	FA9550-08-10377	35,765
Highly Effective Geospatial Representation and Analysis - PHASE 1	12.RD	HM1582-07-23036	101,959
New Graph Models and Algorithms for Detecting Salient Structures from Cluttered Images	12.RD	FA9550-07-10250	110,083
PM - Predictive Methods for Large-Scale Progressive Damage in Structural Composites for Aircraft Applications	12.RD	FA9550-07-10460	112,048
Optical Limiting Materials Based on Gold Nanoparticles	12.RD	FA9550-09-10246	1,539
Free Resolutions in Commutative Algebra	12.RD	H98230-08-10029	23,247
Palmetto Number Theory Series	12.RD	H98230-08-10121	8,484
University of South Carolina/Georgia State University Commutative Algebra Seminar	12.RD	H98230-09-10003	4,912
Closure Operations in Positive Characteristic	12.RD	H98230-09-10057	13,829
Advancement and Validation of Analysis Methods for Aging Military Aircraft	12.RD	06-S508-02601C1	10,270
Investigation of Degradation Phenomena in SiC NPN Bipolar Junction Transistors	12.RD	07005/CREE11251	32,086
Phase II (STTR) - Software for Generating Geometrically and Topologically Accurate Urban Terrain Models Using Implicit Methods	12.RD	08S-0152	185,191
USC Statement of Work: DII Phase II FY 2008-2009	12.RD	09-C-0056	59,630
Polymer Nanocomposites for Energy Storage and Pulsed Power	12.RD	09-S568-06301C1	52,622
STTR: Physics-based "Real Power" Models for Constructive War Gaming	12.RD	102080005	(1,255)
Nanodielectrics for High Energy Density Capacitors	12.RD	2116-AFR-1S/USC	10,836
HEALTH Study: Sub-contract with RTI International	12.RD	2-312-0209792	47,231
Natural and Human-Induced Disasters and Other Factors Affecting Future Emergency Response and Hazard Management: An Outlook Paper	12.RD	6162-002-007-CS	9,188
Strategic Environmental Research and Development Program - Phase 2	12.RD	6-321-0210294	96,435
High Performance Computer Tool for Predictions of Fatigue Crack Growth and Stable Crack Extension in Aircraft Structures	12.RD	CORRELATED SOLU	19,242
BCT2&3 Survey and Testing	12.RD	DAMD17-01-20003	31,521
Settlement History of Fort Jackson, South Carolina	12.RD	DAMD17-01-20003	94,513
Advanced Friction Stir Processing for Ultra-refined Microstructure Development of Aluminum 7XXX Series Alloys (STTR)	12.RD	FA9550-08-C0031	2,916
High Frequency and High Power Electronics Using High Quality ALN Layers and Substrates	12.RD	HQ0006-06-2-004	1,211,477
FSW Process Development for a New Marine Aluminum Alloy	12.RD	N00014-08-C0477	30,634
Archaeological Preparations for Shoreline Control at Charlesfort-Santa Elena National Historic Landmark Site	12.RD	N69450-07-R2550	75,100
Soldier and Family Satisfaction with Graduation Family Day at Fort Jackson	12.RD	NAFIB5-09-M0653	3,804
Solid State Current Limiter: Simulations Studies for Design Requirements	12.RD	NAVY 4145	10,519
Solution Characterization of Levan	12.RD	NBCHC080087	40,000
Evaluating The Thermal Characteristics of Copper Nanofluids over a Flat Plate	12.RD	S-29000.37	18,043
SBIR: Low-loss High-power Cryogenic RF Switches using III-Nitride MOSHFETs	12.RD	SET INC/US NAVY	120

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Department of Defense, continued</b>			
South Carolina Research Foundation, continued			
High-Power Integrated RF Switches for JTRS	12.RD	SET/DOD/USCRF	10,000
Cooper Air Quality Program	12.RD	W81XWH-07-C0054	314,765
Soldier Health Promotion to Examine and Reduce Health Disparities (SHPERHD)	12.RD	W81XWH-08-C0747	175,377
Optimal Design of Compact Fuel Cell Hybrid Power Systems (STTR - Phase II)	12.RD	W911NF-07-C0102	249,519
Certified Athletic Trainer - Forward Program	12.RD	W9124D-07-C0046	774,662
Certified Athletic Trainer - Forward Program (Travel Only)	12.RD	W9124D-07-C0046	11,017
Sediment and Water Quality at Three Marine Corps Rifle and Bombing Ranges: Marine Corps Recruit Depot			
Parris Island, Marine Corps Base Camp Lejeune, and Marine Corps Air Station Cherry Point	12.RD	W912DY-07-20041	251,187
U.S. Army Conditioned Based Maintenance Program: Aircraft Components Testing	12.RD	W912QG-08-D0001	346,373
Development of a Historic Context for 19th and 20th Century Farmsteads, Camp Atterbury JMTC	12.RD	W9132T-09-20004	23,455
Phase I SBIR: Innovative Micro Air Vehicles & Control Techniques for Urban Environments	12.RD	08S-1381	10,000
Social Vulnerability and Place Vulnerability Analysis Methods and Application for Corps Planning	12.RD	6162-002-007-CS	19,479
Natural Resources Personnel Human/Wildlife Interaction Risk Management Model	12.RD	CESU MARINE COR	15,461
Standards, Software and Hardware for Multiresolution Maps/Models for UAST in the Absence of A Priori World Models	12.RD	CR-19545-430330	18,302
IPA Assignment Agreement	12.RD	F1ATA06162V701	184,128
Synthesis of GNP Suspensions and Chromophore-Modified GNP Suspensions	12.RD	F33615-03-D5408	13,340
Combining Facts and Expert Opinion in Analytical Models via Logical and Probabilistic Reasoning	12.RD	FA8750-06-C0194	75,236
Study of Liquid Metal Anodes for a JP-8 /fyek /cekk (STTR)	12.RD	W911NF-08-C0075	35,417
Research Proposal to Fabricate Test Prototype Span of a New Non-Standard Fixed Bridge System Using Vanadium			
Microalloyed High Performance Steel	12.RD	W912HZ-08-C0053	2,775
Phytodegradation and Photodegradation of Nitroamine Hexahydro-1,3,5,-Trinitro-1,3,5-triazine (RDX)	12.RD	W913E5-04-C0004	787
South Carolina Research Authority			
CDMRP TBI/PTSD Study Site	12.RD	2009-115	62,444
Troop Recruit Improvement (TRIM) - Coordinating Center	12.RD	2008-36	150,669
Clemson University			
Further Development of Curcumin, Muscadine, Quercetin and Caffeine as Natural Food Additives to Delay Fatigue and Enhance Physical Stamina and Mental Alertness	12.RD	112975592232005	259,796
South Carolina Army National Guard			
Survey of the Proposed Florence/Darlington Technical College (FDTC) FMS Site	12.RD	PO#1182	5,889
Office of Adjutant General			
Survey of the Proposed Florence/Darlington Technical College (FDTC) FMS Site	12.RD	PO#810	7,451
South Carolina Universities Research and Education Foundation			
Nanocrystalline Ceramics Synthesis and Characterization	12.RD	WEST155	5,592
South Carolina National Guard			
Comprehensive Rotary-Wing Aircraft Research Plan in Support of the U.S. Army Conditioned Based Maintenance	12.RD	W912QG-08-D0001	169,294
AMCOM G-3: AH-64 Tail Rotor Drive Train Hanger Bearing Test Operation At The Seeded Fault Test Facility			
of The University Of South Carolina Mechanical Engineering Department	12.RD	W912QG-06-P0076	115,842
PM APACHE: AH-64 Swashplate & Tail Rotor Gearbox Test Operation At The Seeded Fault Test Facility			
of The University Of South Carolina Mechanical Engineering Department	12.RD	W912QG-06-P0076	243,386
<b>Total Department of Defense</b>			<b>13,542,421</b>
<b>US Department of Housing and Urban Development</b>			
Passed through programs from:			
South Carolina Research Foundation			
Local Support for Installation of a Hydrogen Fueling Station in Columbia	14.RD	2008-132-2	18,446
<b>Total US Department of Housing and Urban Development</b>			<b>18,446</b>
<b>US Department of Interior</b>			
Passed through programs from:			
South Carolina Research Foundation			
USGS NEHRP Testing and Analysis of Deep Sediments in Charleston, SC	15.RD	08HQGR0035	12,584
Benthic Boundary Layer Sediment Transport in the Carolinas	15.RD	03HQAG0018	32,470
Spatial-temporal Statistical Epidemiology of Chronic Wasting Disease	15.RD	05ERAG0061	(2,847)
Sediment Trapping in the Gulf of Mexico	15.RD	0820900149	15,660
The Archeology of Civil War Naval Operations at Charleston Harbor	15.RD	GA-2255-08-025	9,064
Mapping the Charleston to Savannah Railroad Defenses: Phase II	15.RD	GA-2255-08-026	12,368
Snow's Island Battlefield National Register Nomination Revision	15.RD	GA-2255-08-027	15,355
Forest Recovery and Hydrologic Modeling on New Park Lands	15.RD	H5000030930	4,187
Congaree Floodplain Decision Support Project: Assessing the Extent of River Regulation on			
Congaree National Park: Phase II	15.RD	H5000030930	5,710
Fire-Environment Interactions in Great Basin Shrub-Steppe Communities Across an Ecotonal Gradient			
in Lava Beds National Monument	15.RD	H5000085100	11,987
Determine Source(s) Of Fecal Contamination in Toms Creek Watershed Entering Congaree National Park	15.RD	H5000085100	14,730
South Carolina Department of Archives and History			
ArchSite Server Purchase and Installation	15.RD	SC DAH	1,497
Grad Student Assistant--ArchSite Application	15.RD	SC DEPT ARCHIVE	1,153

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Department of Interior, continued</b>			
South Carolina Department of Natural Resources			
Assessing Introgressive Hybridization Within and Habitat Requirements of Native South Carolina Redeye Bass ( <i>Micropterus coosae</i> )	15.RD	00780-94831	64,356
Habitat Characterization of Seepage Slope Wetlands on the SC Coastal Plain	15.RD	SCDNR	10,572
A GIS-Based Model to Guide Landscape-Scale Restoration	15.RD	SCDNR	21,644
<b>Total US Department of Interior</b>			<b>230,490</b>
<b>US Department of Justice</b>			
Passed through programs from:			
South Carolina Department of Public Safety			
Continued Maintenance and Enhancement of IVIS	16.RD	1V08089	84,650
Continued Maintenance and Enhancement of IVIS	16.RD	1V07296	424
South Carolina Research Foundation			
The Impact of Proactive Enforcement of No-Contact Orders on Victim Safety and Repeat Victimization	16.RD	2004WGBX0007	9,196
A Multi-Method Evaluation of Police Use of Force Outcomes	16.RD	2005-IJ-CX-0056	42,374
Rapid Visualization of Biological Fluids at Crime Scenes Using Optical Spectroscopy	16.RD	2007-DN-BX-K199	161,629
Poly-victimization History Among Girls Adjudicated Delinquent	16.RD	2006-WG-BX-0011	168,460
Lexington County Methamphetamine Initiative Evaluation	16.RD	2007-CKWX-0264	8,157
Perceptions of the Organization and Violence of Gangs	16.RD	2008-DD-BS-0526	120,867
<b>Total US Department of Justice</b>			<b>595,757</b>
<b>US Department of Transportation</b>			
Passed through programs from:			
South Carolina Department of Transportation			
Investigation of the performance and Benefits of Class-F Self Consolidating Concrete (SCC)	20.RD	851	5,181
Investigation of the Performance and Benefits of Class F Self Consolidating Concrete	20.RD	920	32,971
Geotechnical Materials Database for Embankment Design and Construction	20.RD	1151/670	96,051
Mechanistic-Empirical Pavement Design Guide Implementation	20.RD	671	84,303
Behavior of Pile to Pile-cap Connections Subjected to Seismic Forces	20.RD	672	180,157
South Carolina Research Foundation			
Development of Truck Trip Generation Models	20.RD	09-731045-JECUT	17,175
Alternative Aircraft and Airfield De-icing and Anti-icing Formulations with Reduced Aquatic Toxicity and Biological Oxygen Demand	20.RD	ACRP-02-01	102,086
Fuel Cell Bus for University of South Carolina Campus	20.RD	GA04700100	67,482
Truck Drayage Practices	20.RD	THE TIOGA GROUP	6,368
<b>Total US Department of Transportation</b>			<b>591,774</b>
<b>Library of Congress</b>			
Passed through programs from:			
South Carolina Research Foundation			
Newsfilm Library/Library of Congress Cooperative Movietone News Grant	42.RD	LIBRARY OF CONG	58,850
<b>Total Library of Congress</b>			<b>58,850</b>
<b>National Aeronautics and Space Administration</b>			
Passed through programs from:			
College of Charleston			
USC-SC Space Grant Consortium Renewal	43.RD	520589	115
Development of Advanced Unitized Regenerative Fuel Cell	43.RD	520726USCEPSCOR	309,616
South Carolina Research Foundation			
Aqua/AMSR-E Soil Moisture Algorithm and Product Improvements	43.RD	1261626	10,798
Fabrication of 2-meter Spin-cast Polymer Composite Telescope Mirrors for Use in Space Communication	43.RD	1277672	2,659
Infrared Observations of Dusty Quasar Absorption Systems	43.RD	1288054	9,336
Development of Remote Sensing-assisted Natural and Technological Hazards Decision Support System	43.RD	1293429	2,092
Quantifying Deformations on the Microscale: Development of a SEM-Based Measurement System with Software Implementation Capable of Measuring Crack Tip Strains	43.RD	CORRELATED SOLU	99,573
Modeling the Influence of Plant Cover on Water and Energy Cycling at the Land-Atmosphere Interface: Constraints from Satellite and Ground Data	43.RD	NNG05GC16G	4,675
Prediction of Stable Tearing Along Arbitrary 3D Crack Surfaces in Metallic Structures: Criteria Validation and Crack path Predictions Under Mixed Mode Loading	43.RD	NNX07AB46A	134,946
Ecological Forecasting and Hindcasting of Biodiversity Responses to Climate Change: From MODIS to Mussels	43.RD	NNX07AF20G	281,679
Viewing the World Through Nonhuman Eyes: Exploring the Links between Remote Sensing, Climate Change and Coastal Ecosystems	43.RD	NNX07AF20G	20,834
Ecological Forecasting and Hindcasting of Biodiversity Responses to Climate Change: From MODIS to Mussels	43.RD	NNX07AF20G	86,495
Satellite Data Analysis of Low-Frequency Indian Ocean Climate Variability	43.RD	NNG06GJ22G	72,976
Analysis of Engineered Structured Sorbent Systems for the Next Generation Atmosphere Revitalization System	43.RD	NNM09AA63P	23,193
Polyethersulfone Membranes for Fuel Cell Water Management	43.RD	NNX07AK93H	(941)
Indian Ocean Response to ENSO and IOD using Satellite Observations	43.RD	NNX08A033G	17,275
Evaluation of Medical Oxygen PSA Technology for International Space Station Applications	43.RD	NNX08AH40A	136,792
Forecasting Change to Biogeographic Boundaries Using Remotely Sensed Data	43.RD	NX07A050H	29,066
Spatial and Temporal Variability in Chlorophyll, Primary Production and Export Production in the Southern Ocean	43.RD	PO#10294774	3,792

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>National Aeronautics and Space Administration, continued</b>			
South Carolina Sea Grant Consortium			
Studying Large Scale Ocean Circulation Using Altimetry and GRACE	43.RD	SC SPACE GRT	1
South Carolina Space Grant Consortium			
Development of an Adsorption Process Simulator in Support of NASA Space Craft, Lunar and Martian Missions	43.RD	520797	7,891
Investigation of Factors Leading to Abnormal Grain Growth during Post-Weld Solution Heat Treatment of Alloy 2195 Friction Stir Welds	43.RD	C09-2664-SC	8,753
A Renewal: Studying Large Scale Ocean Circulation Using Altimetry and GRACE	43.RD	SC SPACE GRT	7,500
Satellite Data Analysis of Hurricane Response on Upper Ocean Circulation	43.RD	SC SPACE GRT	7,500
An Emission-line Study of Star Formation Rates in Quasar Absorber Galaxies	43.RD	SC SPACE GRT	9,901
Polyethersulfone Membranes for Fuel Cell Water Management (Fellowship for John A. Staser)	43.RD	SC SPACE GRT	5,000
Development of an Adsorption Process Simulator in Support of NASA Space Craft, Lunar and Martian Missions	43.RD	SC SPACE GRT	30,000
Impact of Inductive Teaching Strategies on Critical Thinking Skills of Current and Prospective Engineering Students from Underrepresented Groups	43.RD	SC SPACE GRT	4,000
Residual Stress Measurement Using Material Removal Methods Coupled with 3-D Image Correlation and Numerical Analysis	43.RD	SC SPACE GRT	10,000
NASA Space Grant GSRP for Jason Ouzts	43.RD	SC SPACE GRT	10,000
SC Space Grant Graduate Student Research Program	43.RD	SC SPACE GRT	8,000
Development of Remote Sensing-assisted Natural and Technological Hazards Decision Support Systems	43.RD	NCC-1303008	153,608
A Combined Active-passive Algorithm for Retrieval of Soil Moisture	43.RD	NNX09AF60G	7,978
<b>Total National Aeronautics and Space Administration</b>			<b>1,515,103</b>
<b>National Foundation of Arts and the Humanities</b>			
Passed through programs from:			
Education Foundation of USC Lancaster			
NEA Grant for Catawba Studies	45.RD	LANCASTER EDU F	30,000
South Carolina Research Foundation			
African American Camp Meetings	45.RD	07-5500-7015	8,624
A Digital Edition of the Writings of Eliza Lucas Pinckney and Harriett Pinckney Horry	45.RD	RQ-50350-08	88,497
NEH Scholarly Editions	45.RD	WU-HT-08-07	26,832
Assessing the Value of Public Library Services: A Review of the Literature and Meta-Analysis (META)	45.RD	RE-04-08-0047	19,663
King Cotton: A Documentary Film	45.RD	8-1225-1	5,603
The Life and Times of Congressman Robert Smalls	45.RD	9-1276-2	1,500
The Humanities Council			
Lincoln and the Civil War in Contemporary America	45.RD	8-1259-1	2,000
NEH Fellowship: Civic Monuments of the Civil War	45.RD	FA-54065-08	48,795
<b>Total National Foundation of Arts and the Humanities</b>			<b>231,514</b>
<b>National Science Foundation</b>			
Passed through programs from:			
Coastal Carolina University			
Mobile Link Organisms as Processors and Transporters of Materials within a Marsh-Estuarine Ecosystem	47.RD	2004-001	2,078
South Carolina Commission on Higher Education			
Greedy Approximations with Expansions	47.RD	DMS-0554832	19,294
South Carolina Research Authority			
Experimental Program to Stimulate Competitive Research & Institutional Development (RII)	47.RD	TO0041	224,079
Engineering of Cellular Development	47.RD	TO0041	359,560
Experimental Program to Stimulate Competitive Research & Institutional Development (RII)	47.RD	TO0041	237,066
Experimental Program to Stimulate Competitive Research & Institutional Development (RII)	47.RD	TO0041	208,307
Synthesis and Characterization of Metal Nanoparticles Encapsulated within Icosahedral Plant Viral Capsids	47.RD	TO0054	(653)
Examination of the role of CCAAT/Enhancer Binding Protein-beta in Transcriptional Regulation of the p53 Promoter	47.RD	TO0065	35,256
EPSCoR/IDeA: Postdoctoral Academic Career Development Program	47.RD	TO0073	56,424
Purchase of State-of-the Art Sub-bottom Profiling Equipment	47.RD	TO0079	41,600
Acquisition of a Modulated Differential Scanning Calorimeter	47.RD	TO0081	45,000
South Carolina Research Foundation			
Characterization of the Liquefaction Resistance of Aged Soils	47.RD	108075582062005	47,665
Collaborative Research-BES: FerryMon, Unattended Water Quality Monitoring Utilizing Advanced Environmental Sensing	47.RD	BES-0606940	18,749
IREE: Mixed-IntegerNonlinear Programming Approaches for Hydrogen Production Systems	47.RD	CBET-0238663	2,457
CAREER: Amyloid Fibril Formation in Bulk Solution and on Supported Phospholipids Bilayers	47.RD	CBET-0644826	96,524
Collaborative Research: Development of New Heterogeneous Catalysts for Nox Storage and Reduction (NSR)	47.RD	CBET-0730935	96,594
Operando Vibrational Spectroscopic Investigation of Heterogeneous Asymmetric Hydrogenation on Transition Metal Catalysts	47.RD	CBET-0731074	98,425
Operando Vibrational Spectroscopic Investigation of Heterogeneous Asymmetric Hydrogenation on Transition Metal Catalysts - Graduate Research Supplement (GRS)	47.RD	CBET-0731074	6,875
GOALI: Collaborative Research: Phase Behavior and Reactivity of a Hygroscopic System	47.RD	CBET-0756089	99,514
Engineering Bone Formation in Multi-Functional Nanocomposite Scaffolds	47.RD	CBET-0756394	96,185
Plant Uptake and Interaction with Nanoparticles	47.RD	CBET-0828441	20,893
New Strategies for Improved Molecularly Imprinted Polymers	47.RD	CBET-0828897	24,824
Operando Vibrational Spectroscopic Investigation of Heterogeneous Asymmetric Hydrogenation on Transition Metal Catalysts - REU Supplement	47.RD	CBET-731074	8,000
REU Supplement: Predictive Methodologies for the Design of Lamb-Wave Piezoelectric Wafer Active Sensors for Structural Health Monitoring	47.RD	CMMI-0408578	3,714



**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>National Science Foundation, continued</b>			
South Carolina Research Foundation, continued			
The Recovery Divide: Sociospatial Disparities in Disaster Recovery from Hurricane Katrina along Mississippi's Gulf Coast	47.RD	CMMI-0623991	121,686
Synthesis of Necklace-Shaped, Boron and Boride Nanowires for Polymer Nanocomposite Applications	47.RD	CMMI-0653651	43,541
Reprogrammable Parallel NanoManufacturing	47.RD	CMMI-0700458	80,450
Travel Support to Attend the International Conference on Experimental Mechanics 2008	47.RD	CMMI-0721757	13,296
Development and Implementation of Staggered BEM-FEM for the Assessment of Vibrations Induced by High Speed Trains	47.RD	CMMI-0800414	52,631
Collaborative Research: Investigating Bacteria-Surface Interactions by Surface Engineering and Mathematical Modeling	47.RD	CMMI-0849317	627
Research Symposium and Workshop: Advanced Imaging Methods for Accurate Deformation, Motion and Shape Measurements: Recent Developments and Applications	47.RD	CMMI-0856430	1,898
Predictive Methodologies for the Design of Lamb-Wave Piezoelectric Wafer Active Sensors for Structural Health Monitoring, Damage Detection and Failure Prevention	47.RD	CMS-0408578	59,649
Collaborative Research: Placed-Based Decision Support for Spatial and Temporal Transference of Risk and Hazards	47.RD	CMS-0433158	25,047
SST: Ferroelectric Thin-Film Active Sensor Arrays for Structural Health Monitoring	47.RD	CMS-0528873	100,837
International Research and Education Experience for Early-career Researchers in Ferroelectric/Piezoelectric Active Sensors (Supplemental Funds - IREE)	47.RD	CMS-0528873	13,541
Role of Mechanical Environment on the Evolution of Tissue Microstructure: Meso-Scale Cell-Extracellular Matrix Interactions	47.RD	CMS-0555329	22,762
Multiscale Mechanical Characterization of Biological Tubes	47.RD	CMS-0556362	23,897
Understanding the Mechanics of Particle Motion in Levee-breach Closure	47.RD	CMS-0612207	34,111
CAREER: Mixed-Integer Nonlinear Programming Approaches for Hydrogen Production Systems	47.RD	CTS-0238663	25,040
Collaborative Research: Tailoring Solid Catalysts for Selective Reaction of Multifunctional Molecules	47.RD	CTS-0456899	10,711
Effect of Structure of Room Temperature Ionic Liquids on Organic Reactions Involving Electrochemically Generated Superoxide Ions	47.RD	CTS-0500032	13,316
A Hierarchical, Structure-Oriented and Stochastic Approach to Model Liquid Molding Processes	47.RD	DMI-0522221	11,027
IREE: Micro-Scale Flows Through Fibrous Media (Supplement to Account 15510-FA75)	47.RD	DMI-0522221	374
Collaborative Research: Hierarchical Integration and Control of Distributed Energy Resources	47.RD	ECCS-0652271	34,030
A Miniature Implantable Device for Continuous Glucose Monitoring	47.RD	ECCS-0702056	36,438
CAREER: Diagnostics and Prognostics of Electric Cables in Aging Power Infrastructure	47.RD	ECCS-0747681	45,505
Plasmons in III-Nitrides and Nanoscale III-Nitride Plasma Wave Terahertz Detectors	47.RD	ECCS-0801395	77,158
Remote Detection Using Microcantilever Based Sensor	47.RD	ECCS-0801435	59,302
CAREER: InN Nanowire Based Multifunctional Nanocantilever Sensors	47.RD	ECCS-0846898	7,459
CAREER: Flexible, Ultra-Thin, Packaged Antennas and Arrays for Future Generation Wireless Applications	47.RD	ECS-0237783	27,045
Career: Flexible, Ultra-Thin, Packaged Antennas and Arrays for Next Generation Wireless Applications-Supplement	47.RD	ECS-0237783	89
CAREER: Modeling, Control and Stability Investigation of Multiple Power Converter Systems	47.RD	ECS-0348433	78,945
Development of a Novel Wireless Sensor System Test-Bed for Infrastructure Health Monitoring and Biomedical Applications	47.RD	ECS-0619253	20,822
Capacitively Coupled Wide Bandgap Heterostructures for High-Frequency Electronics	47.RD	ECS-0621931	6,756
I/UCRC for Fuel Cell Research-Operation Grant	47.RD	EEC-0324260	11,816
International Research and Education in Engineering (IREE) Grant for Kevin Beard to Support International Travel to Fraunhofer ISE as an Early-Career Researcher	47.RD	EEC-0324260	11,839
Collaborative Research for a Friction Stir Processing I/UCRC	47.RD	EEC-0437341	73,309
REU Site: Green Chemistry in Chemical Engineering	47.RD	EEC-0552702	27,540
SGER: Complexity, Systems, and Control in Nanobiotechnology: Developing a Framework for Understanding and Managing Uncertainty Associated with Radically Disruptive Technologies	47.RD	EEC-0646332	28,144
PFI: Polymer Nanocomposites Manufacturing Partnership.	47.RD	IIP-0650186	113,745
PFI: Polymer Nanocomposites Manufacturing Partnership.	47.RD	IIP-0650186	64,003
PFI: Polymer Nanocomposites Manufacturing Partnership.	47.RD	IIP-0650186	56,760
COLLABORATIVE PROPOSAL: Center for Grid-Connected Advanced Power Electronic Systems	47.RD	IIP-0832467	6,594
Collaborative Research: Center for Fuel Cells: A Multi-University I/USRC	47.RD	IIP-0856055	1,373
Multi-Scale Modeling of the Mouse Heart: from Genotype to Phenotype	47.RD	PO#10251464	32,342
Understanding and Preventing Nanocarpet Effect	47.RD	RR185375/384378	4,917
Tracing Evolution of Metals and Stars in Galaxies with Quasar Absorption Lines	47.RD	AST-0607739	71,237
CAREER: Exploring Particle Size Dependent Surface Chemistry on Supported Metal Nanoparticles	47.RD	CHE-0133926	1,430
Semiclassical dynamics and description of interference and nonadiabatic effects in mixed representation	47.RD	CHE-0516889	49,033
CRC: Characterization of Changes in Molecular Structure and Activity of Autoinducer Molecules Relevant to Bacterial Chemical Communication	47.RD	CHE-0526821	127,088
CRC: Characterization of Changes in Molecular Structure and Activity of Autoinducer Molecules Relevant to Bacterial Chemical Communication	47.RD	CHE-0526821	89,520
CRC: Characterization of Changes in Molecular Structure and Activity of Autoinducer Molecules Relevant to Bacterial Chemical Communication	47.RD	CHE-0526821	82,485
CRC: Characterization of Changes in Molecular Structure and Activity of Autoinducer Molecules Relevant to Bacterial Chemical Communication	47.RD	CHE-0526821	56,289
Conformationally Programmable Molecular Receptors	47.RD	CHE-0616442	97,222
Collaborative Research: Preparation of New Organic/Inorganic Hybrid Materials: A Multi-Disciplinary Approach to Integrate Research and Undergraduate Education	47.RD	CHE-0714439	83,919
Manipulating Metal Complex Assembly (and Function) via Structure-Directing "Third-Generation" Scorpionate Ligands"	47.RD	CHE-0715559	147,530
Self-assembled Porous Materials from Macrocyclic Ureas	47.RD	CHE-0718171	133,250
Boronate-Linked Polymeric Materials	47.RD	CHE-0718877	169,700
Unsaturated Heterometallic Cluster Complexes for Hydrogen Activation and Catalytic Hydrogenations	47.RD	CHE-0743190	159,518
CAREER: Development of Hierarchical Plant Virus Assemblies for Probing Cell-Matrix Interactions	47.RD	CHE-0748690	101,231
Condensed-Phase Dynamics Resolved by Multidimensional Population Spectroscopy	47.RD	CHE-0809306	118,625
Oxide-supported Bimetallic Au-t Clusters as Catalysts for Epoxidation and Oxidation Reactions	47.RD	CHE-0845788	68,412

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>National Science Foundation, continued</b>			
South Carolina Research Foundation, continued			
Synthesis of New Platinum Group Metal Oxides	47.RD	DMR-0450103	19,941
Synthesis of Functional Composite Nanofibers Templated by 1D Self-assembly of Tobacco Mosaic Virus	47.RD	DMR-0706431	154,741
Materials Discovery by Crystal Growth: A Synthetic Strategy to Prepare Complex Oxides from High Temperature Solutions	47.RD	DMR-0804209	73,447
REU: Materials Discovery by Crystal Growth: A Synthetic Strategy to Prepare Complex Oxides from High Temperature Solution	47.RD	DMR-0804209	2,113
Modular Forms and Number Theory	47.RD	DMS-0600400	43,597
Vector-valued Analysis with a Flair from the Geometry of Banach Spaces	47.RD	DMS-0600888	2,410
Some Problems on Analyses and Applications of Centroidal Voronoi	47.RD	DMS-0609575	35,902
External and Probabilistic Combinatorics	47.RD	DMS-0701111	21,732
Topics in Banach Space Theory	47.RD	DMS-0701552	38,664
Highly Effective Representations for Surface and Solid Spherical Studies	47.RD	DMS-0709046	38,767
CMG Collaborative Research: Development of New Statistical Learning Theory and Techniques for Improvement of Convection Parameterization in Climate Models	47.RD	DMS-0721621	41,568
Investigations on the Corona Problem and a Study of Multi-Parameter Harmonic Analysis	47.RD	DMS-0752703	28,635
The Discrepancy Theory and the Small Ball Conjecture	47.RD	DMS-0801036	29,861
Palmetto Number Theory Series	47.RD	DMS-0801150	7,950
Dynamic Models and Decision Making for Complex Reliability Systems	47.RD	DMS-0805809	103,607
An Integrated Approach to Modeling and Simulations of Complex Fluids of Microstructures	47.RD	DMS-0853005	90,259
FRG: Collaborative Research: Algorithms for Sparse Data Representations	47.RD	DMS-354707	8,294
Study of the Nucleon Using Polarized Photon Beams and Polarized Targets	47.RD	PHY-0244780	17,698
Theoretical Studies of Hadronic and Nuclear Dynamics	47.RD	PHY-0457014	1,998
Nex Generation Double-Beta Experiments: CUORE/CUORICINO and Majorana	47.RD	PHY-0500337	110,045
The Study of Nuclear Physics with intermediate Energy Probes	47.RD	PHY-0555604	380,538
The Study of Nuclear Physics with intermediate Energy Probes-REU Supplement	47.RD	PHY-0555604	14,512
CUORE: Phase I Construction and Crystal Bolometer Research and Development	47.RD	PHY-0605119	150,568
Theoretical Studies of Hadronic and Nuclear Dynamics	47.RD	PHY-0758114	89,366
CUORE/CUORICINO and Maforana: Next Generation Double-Beta Decay Experiments	47.RD	PHY-0758544	250,163
MSPA-MSC: Data-driven Parallelization of Time in Molecular Dynamics Simulations	47.RD	R01082	5,471
In Search of Past Analogs to the Current Interglacial: MIS 11 Climate Record	47.RD	0602309	50,018
Evolution of Atmospheric Circulation Patterns over Continental Interior Asia during the Past 1.4Ma from Millennial-Scale Carbonate-Based Proxy Records from Lake Hovsgol, Mongolia	47.RD	ATM-04042351	26,216
Atlantic Basin Tropical Cyclone Reconstructions for the Late Eighteenth and Early Nineteenth Centuries	47.RD	ATM-0502105	49,533
Collaborative Research: Discrete vs. Continuous Continental Deformation and the Role of the Lower Crust in the Tien Shan	47.RD	EAR-0310116	1,899
Collaborative Research: Lithospheric Foundering Beneath the Sierra Nevada	47.RD	EAR-0454524	22,028
Collaborative Research: Evaluating the Competing Roles of Garnet and Fluid in Controlling U-Th Disequilibria in Lavas of the Aleutian Island Arc	47.RD	EAR-0509922	11,118
ScienceQuest: A South Carolina Geosciences Initiative	47.RD	EAR-0543954	48,604
The EarthScope Automated Receiver Survey Phase II: Product Integration, Accessibility & Expansion	47.RD	EAR-0642890	65,734
Collaborative Research: Groundwater Dynamics of a Barrier Island	47.RD	EAR-0711301	77,632
Upgrade of Electron Microprobe Facilities for Geological and Materials Research at the University of South Carolina	47.RD	EAR-0841461	8,945
Origins and Spread of the Aspergillus-Gorgonian Coral Epizootic: Role of Climate and Environmental Facilitators	47.RD	OCE-0326269	2,149
Collaborative Research: The Cariaco Basin Oceanographic Time Series Program	47.RD	OCE-0326313	27,554
Collaborative Research: Observation and Modeling of Inner Shelf Sediment Dynamics and Large-Scale Sorting: Cross- Shelf or Alongshelf Transport	47.RD	OCE-0451989	40,763
Collaborative Research: Anatomy of an Overlapping Spreading Center; Geochemical and Geological Study of the EPR 9A 03°N OSC	47.RD	OCE-0525872	50,309
Oceanic Applications of Laser induced Breakdown Spectroscopy: Laboratory Validation	47.RD	OCE-0527910	721
Collaborative Research: Regional Ocean-Benthic Observatory and Technology Testbed on the Mid Shelf--Understanding Processes	47.RD	OCE-0535893	15,457
Collaborative Research: Establishment of a Climate Type-Section for the Tropical Atlantic From Cariaco Basin Sediments	47.RD	OCE-0602316	146,012
In situ Classification of Bloom-Forming Phytoplankton by Imaging Multivariate Optical Computing (IMOC)	47.RD	OCE-0623400	26,227
In situ Classification of Bloom-Forming Phytoplankton by Imaging Multivariate Optical Computing (IMOC)	47.RD	OCE-0623400	138,694
Rainfall-driven Intertidal Zone Carbon Cycling	47.RD	OCE-0628372	70,150
Fundamental Investigation of Glacial/Interglacial Deep-Sea pH and Carbonate Saturation Effects on Paired Benthic Foraminiferal Trace Element and Stable Isotope Signatures	47.RD	OCE-0647891	70,082
Fundamental Investigation of Glacial/Interglacial Deep-Sea pH and Carbonate Saturation Effects on Paired Benthic Foraminiferal Trace Element and Stable Isotope Signatures	47.RD	OCE-0647891	21,894
SGER: Transient Shelf Response to the Hurricane Wilma's Impact	47.RD	OCE-0650194	14,321
COLLABORATIVE RESEARCH: Nitrogen Fixation and its Coupling with Denitrification in the Eastern Tropical North Pacific	47.RD	OCE-0726290	114,868
Collaborative Research: Genesis of Primitive, High-Sr Lavas in the Western Aleutians	47.RD	OCE-0728077	56,703
Collaborative Research: GEOTRACES: Intercalibration Exercise for Radium Isotopes in Seawater	47.RD	OCE-0751867	18,426
Collaborative Research: The Cariaco Basin Oceanographic Time Series Program	47.RD	OCE-0752037	50,422
Large-Scale Edge Waves Generated by Hurricane Landfall	47.RD	OCE-0752059	68,362
Large-Scale Edge Waves Generated by Hurricane Landfall - REU Supplement	47.RD	OCE-0752059	5,536
Oxidant Generation During Fe(II) Oxidation in the Mixing Zone of Subterranean Estuaries: An Integrated Laboratory and Field Study.	47.RD	OCE-0752473	188,375
Collaborative Research: Oceanic Applications of Laser Induced Breakdown Spectroscopy: Laboratory Validation	47.RD	OCE-0752664	27,796
MRI: Acquisition of ICPMS Instrumentation for Interdisciplinary Research	47.RD	OCE-0820723	391,759
Persistence and Fate of Domoic Acid in the Santa Barbara Basin	47.RD	OCE-0850425	42,938
Collaborative Research: Photodegradation of Dissolved Organic Matter and its Contribution to Surface Water CO2 fluxes and the Carbon Cycle in a River Dominated Ocean Margin	47.RD	OCE-0850653	71,447

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>National Science Foundation, continued</b>			
South Carolina Research Foundation, continued			
Constraints on the Hawaiian Swell and Plume-lithosphere Interaction from Kaua'i Mantle Xenoliths	47.RD	OCE0852488	48,780
LTER: Georgia Coastal Ecosystems-II (subcontract)	47.RD	RR100-500/35069	43,619
GeoInformatics: CUAHSI Hydrologic Information Systems	47.RD	UTA07-290	35,977
Complexity and Quantum Algorithms	47.RD	CCF-0515269	10,985
Negotiation Networks	47.RD	CCF-0829580	54,957
CAREER: Disruption Tolerant Routing in Wired and Wireless Networks	47.RD	CNS-0448272	59,914
CAREER: Power Aware Scheduling for Real-Time Embedded Systems	47.RD	CNS-0545913	69,132
Generic Experimental Networking Infrastructure for Research on Emerging Networks and Services	47.RD	CNS-0551650	49,077
CRI: Generic Experimental Networking Infrastructure for Research on Emerging Networks and Services - REU Supplement	47.RD	CNS-0551650	12,000
Reu Site: Multidisciplinary Research in Computing	47.RD	CNS-0649105	81,981
CRI: CRD Acquisition of a High-Performance Shared-Memory Computer for Biological and Medical Research in South Carolina	47.RD	CNS-0708391	16,408
NSF Travel Grant Support for ICCCN 2008	47.RD	CNS-0836255	8,000
CAREER: Semantic Web-Interoperation Versus Security	47.RD	IIS-0237782	41,679
Microbial Observatories: Anhydrophilic, Halotolerant Microbial Mats of San Salvador Island, Bahamas	47.RD	5-37091	73
A Genetic Stock Center for Peromyscus	47.RD	DBI-0444165	8,300
REU Site: Undergraduate Research in Integrative Evolutionary Biology	47.RD	DBI-0451403	165,503
Small RNAs in Rice and Maize	47.RD	DBI-0501760	156,099
The Role of Arabidopsis RAV2 in Viral Suppression of RNA Silencing	47.RD	DBI-0646540	162,758
A Genetic Stock Center for Peromyscus	47.RD	DBI-0742680	115,722
CAREER: The Assessment of Extinction Risk from Deleterious Mutation, Habitat Fragmentation, and Environmental Change	47.RD	DEB-0238354	32,903
Patterns and Consequences of Fragrance Variation in Oenothera Caespitosa	47.RD	DEB-0317217	19,020
SGER - Effects Of Droughts and Fires on Peatland Carbon Sinks: A Case Study of Changes Following the Massive Fires of 2007 in the Okefenokee National Wildlife Refuge	47.RD	DEB-0748356	35,140
Collaborative Research: Exploration of the Mechanistic Basis and Biogeochemical Implications of Differential Nutrient Limitation among Trophic Levels	47.RD	DEB-0816489	57,614
En-Gen: Bacterial Communication in Microbial Mats: A Metagenomic Approach to Understanding Quorum Sensing Gene Diversity and Expression	47.RD	EF-0723707	225,573
Extreme Diversity among Caulobacter Phages	47.RD	EF-0826792	53,374
Expression of Olfactory SNMPs in Drosophila Melanogaster and Manduca Sexta	47.RD	IBN-0212510	18,675
REU: Expression of Olfactory SNMPs in Drosophila Melanogaster and Manduca Sexta	47.RD	IBN-0212510	83
LTREB: Long Term Studies of Salt Marsh Primary Production	47.RD	IBN-0316429	93,216
Role of the COP9 Signalosome and its Subunit CSN5 for Regulation of MAPK Pathways and Defense Responses in Tomato.	47.RD	IOS-0745545	143,247
REU Supplement - Role of the COP9 Signalosome and its Subunit CSN5 in the Regulation of MAPK Pathways and Defense Responses in Tomato.	47.RD	IOS-0745545	2,834
Diversity of Plant-Associated Diazotrophic Bacteria and their Distributions within Specific Vegetation Zones Along an Environmental Gradient	47.RD	MCB-0237854	30,879
Career: Assessment of the Structural Novelty of an Unknown Protein Using Unassigned Residual Dipolar Coupling Data	47.RD	MCB-0644195	61,767
NSF REU Supplement to Existing Career Grant (MCB-0644195): Assessment of the Structural Novelty of an Unknown Protein Using Unassigned Residual Dipolar Coupling Data	47.RD	MCB-0644195	690
Collaborative Research: MIP: Bacterial Interactions and Processes that Regulate Biodiversity on Marine Organic Particles	47.RD	MCB-0729594	40,942
Mechanistic and Structural Studies of Novel Heme-Containing Enzymes	47.RD	MCB-0820456	112,722
Mechanistic and Structural Studies of Novel Heme-Containing Enzymes	47.RD	MCB-0820456	28,231
NER: Subaward: Building Capacity For Understanding and Assessing the Impact of Nanotechnology Media Messages: Toward a Long-Term Strategy for Improving Public Communication About Emerging Technologies	47.RD	08-268Y-00	10,058
NIRT: Intuitive Toxicology and Public Engagement	47.RD	2008-0919-02	89,000
Collaborative Proposal: Tracking Hydraulic Mining Sediments from the Sierra Piedmont into Flood Bypasses of the Sacramento Valley, California	47.RD	BCS-0520933	459
Doctoral Dissertation Research: Climate Change Effects on U.S. Water Resources Management	47.RD	BCS-0703244	371
Developmental Changes in the Strength of Infants' Object Representations	47.RD	BCS-0721166	151,503
CAREER: Extracting and Understanding Complex Patterns in Spatial Interactions-A Computational-Visual Framework	47.RD	BCS-0748813	52,593
Savannah Valley Frontier Project	47.RD	BCS-0852686	18,966
SGER: Transcription of Traditional Appalachian Speech	47.RD	BCS-0855904	15,812
Doctoral Dissertation Research: Gender, Migration, and New Spaces for Palestinian Women	47.RD	BCS-0902777	9,929
NIRT: From Laboratory to Society: Developing an Informed Approach to Nanoscale Science and Technology	47.RD	SES-0304448	22
Nanotechnology in Society Network Node: Imaging, Scientific Change and Public Understanding of Emerging Nanotechnologies	47.RD	SES-0531160	138,768
Power and Perception in Networks	47.RD	SES-0551895	11,485
Collaborative Research: Status and the Organization of Collective Action	47.RD	SES-0647169	49,153
Summer Research Institute in Experimental Psychology	47.RD	SES-0649249	83,030
Doctoral Dissertation Research: Norm Conformity and Social Identity in Collective Action Groups	47.RD	SES-0703402	1,351
Item Response Theory Models for Mixtures of Dominance and Proximity Items	47.RD	SES-0720072	77,440
The Role of Courts in the Protection and Expansion of Civil and Political Rights: A Pilot Study	47.RD	SES-0820708	31,059
REU Supplement: The Role of the Courts in the Protection and Expansion of Civil and Political Rights: A Pilot Study	47.RD	SES-0820708	4,412
REG Supplement: The Role of Courts in the Protection and Expansion of Civil and Political Rights: A Pilot Study	47.RD	SES-0820708	3,035
Doctoral Dissertation Research: The Influence of Birth Order on Risk Attitudes and Behaviors	47.RD	SES-0851014	5,384
SGER Proposal: Testing the Role of Morality Judgements on the Impact of Procedural and Outcome Fairness			
Perceptions in the Context of Public Hearings About Nuclear Energy	47.RD	SES-0852985	18,810
Membership, Prototypicality, and Influence in Small Groups	47.RD	SES-0853593	29,110
Doctoral Dissertation Research: When Does Majority Rule?	47.RD	SES-0902201	4,476
NSF Graduate Fellowship (Eric Tate)	47.RD	DGE-0929297	33,020
Effects of Inquiry-Based Teaching Experiences on Graduate Students Research Skill Development	47.RD	DRL-0723686	292,977

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>National Science Foundation, continued</b>			
South Carolina Research Foundation, continued			
Peer Review as a Mechanism for both Curriculum Reform and Assessment	47.RD	DUE-0410992	303
CCLI: Effects of Timing, Content and Instruction on Students' Abilities to Solve Open-Ended Problems Using Computers	47.RD	DUE-0536660	15,250
Developing an Engineering Environment for Fostering Effective Critical Thinking (EFFECT) Through Measurements	47.RD	DUE-0633635	75,447
CCLI: Novel instruction Material Development for Embedded System Education in Undergraduate Curriculum	47.RD	DUE-0633641	48,665
Continuous Renewal of Undergraduate Education Via an Interdisciplinary, Inquiry-Based Laboratory	47.RD	DUE-0633648	17,396
Improving STEM Retention through Instruction: Leveraging Faculty Expertise	47.RD	DUE-0653160	204,491
Collaborative Proposal: Maplets for Calculus	47.RD	DUE-0737209	18,405
Project MET (Mathematics for Elementary Teachers)	47.RD	DUE-0772590	623
Professional Development Threading Content, Pedagogy and Curriculum: A Study of Classroom Impact	47.RD	ESI-0455811	8,456
Connecting Real World Scientific Problems with Real World Local Issues	47.RD	SENCER/NSF	998
Stress, Endocrine Disruption , and Adverse Pregnancy Outcomes	47.RD	TO0080	35,047
The South East Alliance for Graduate Education and the Professoriate	47.RD	UFO5037	201,054
Insert Content to Carbonate Tutorial	47.RD	UTA08-703	12,618
Collaborative Research: Free-Drifting Icebergs as Proliferating Dispersion Sites of Iron Enrichment, Organic Carbon Production and Export in the Southern Ocean	47.RD	ANT-0636319	56,998
Collaborative Research: Free-Drifting Icebergs as Proliferating Dispersion Sites of Iron Enrichment, Organic Carbon Production and Export in the Southern Ocean	47.RD	ANT-0636319	67,951
Collaborative Research: IPY: Testing the Polar Gateway Hypothesis: An Integrated Record of Drake Passage Opening and Antarctic Glaciation	47.RD	ANT-0732995	139,955
Collaborative Research: IPY: Testing the Polar Gateway Hypothesis: An Integrated Record of Drake Passage Opening and Antarctic Glaciation	47.RD	ANT-0946339	1,566
Collaborative Research: Chromophoric Dissolved Organic Matter and Lignin Phenols as Tracers of Water Masses and Biogeochemical Processes in the Arctic Ocean	47.RD	ARC-0713915	77,269
Collaborative Research: AOC: Reconceptualizing the Genesis of Change in Rural African Societies: Exploratory Research on the Co-production of Land Use and Livelihood Change	47.RD	OISE-0719788	3,454
PIRE: Modeling of Flood Hazards and Geomorphic Impacts of Levee Breach and Dam Failure	47.RD	OISE-0730246	223,247
US-Chile Planning Visit: Ecological Forecasting of Intertidal Ecosystems in Chile	47.RD	OISE-0853437	204
Immune Deficiencies and Infectious and Allergic Manifestations in Children Occurring after the Chernobyl Accident	47.RD	UKB1-2929-KV-08	7,662
Collaborative Research: Communication and Trust in Virtual Organizations and Teams	47.RD	OCL-0838231	16,157
Plum Island Ecosystems LTER	47.RD	24095	49,736
Analysis of Faculty Salaries at Historically Black Colleges and Universities	47.RD	DG-08-407	20,000
South Carolina State University			
RUI: Surface-Engineered Nanoparticles to Inhibit Protein Aggregation (subcontract to South Carolina State U)	47.RD	07581036BAPSUSC	55,452
RUI: Surface-Engineered Nanoparticles to Inhibit Protein Aggregation (subcontract to South Carolina State U)	47.RD	07581036BAPSUSC	47,880
SCAMP Phase II Proposal entitled "Strengthening and Expanding the STEM Pipeline: A Pathway to Success."	47.RD	07581000SCAMPUS	155,041
SCAMP II Phase I	47.RD	07581029-SCAMP	116,975
University of North Carolina at Charlotte			
USC Participation in STARS Alliance for Broadening Participation in Computing	47.RD	2975-07-0580USC	36,411
NSF Graduate Fellowship in Physics	47.RD	DGE-0343115	4,113
NSF Graduate Fellowship	47.RD	DGE-0929297	40,500
<b>Total National Science Foundation</b>			<b>13,659,251</b>
<b>Environmental Protection Agency</b>			
Passed through programs from:			
South Carolina Research Foundation			
Biomarkers for the Association of Asthma, Atopy and Pre-and Perinatal Exposure to Halogenated Organic Compounds	66.RD	RD-83082502	2,347
Chemical and Biological Behavior of Carbon Nanotubes in Estuarine Sedimentary Systems	66.RD	RD83171601	13,861
Chemical and Biological Behavior of Carbon Nanotubes in Estuarine Sedimentary Systems	66.RD	RD83171601	1,892
Model Selection and Multiplicity Adjustment for Benchmark Dose Analysis in Risk Assessment	66.RD	RD-83241901	54
Development of Receptor-to-Population Level Analytical Tools for Assessing Endocrine Disruptor Exposure in Wastewater-Impacted Estuarine Systems	66.RD	RD-832737010	93,411
Development of Receptor-to-Population Level Analytical Tools for Assessing Development of Receptor-to-Population Level Analytical Tools for Assessing	66.RD	RD-832737010	34,152
Southern Center on Environmentally-Driven Disparities in Birth Outcomes	66.RD	RD-83329301-0	22,083
Analysis and Fate of Single-walled Carbon Nanotubes and Their Manufacturing Byproducts in Estuarine Sediments and Benthic Organisms	66.RD	RD-83385901-0	21,364
Analysis and Fate of Single-walled Carbon Nanotubes and Their Manufacturing Byproducts in Estuarine Sediments and Benthic Organisms	66.RD	RD-83385901-0	121,702
Model Selection and Multiplicity Adjustments for Benchmark Analysis in Quantitative Risk Assessment	66.RD	Y481344	43,286
Condition Assessment and Cumulative Impacts Analysis of Isolated Wetlands on the Carolinas Coastal Plain	66.RD	2-321-0211440	16,151
Determining the Potential for Algal Bloom in Lake Maurepas: Effects of Changing Nutrient Load from Freshwater Diversion and Changes in Human Population	66.RD	650807	16,787
Linking Impacts of Climate Change to Carbon and Phosphorus Dynamics Along a Salinity Gradient in Tidal Marshes	66.RD	VU527783	9,243

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>Environmental Protection Agency, continued</b>			
New Hampshire Department of Environmental Services			
Integrating NOAA NERRS data with the GoMOOS Ocean Data Partnership: A Collaborative Effort in Support of the Proposed Project Entitled "Exchanging Environmental Data for the Gulf of Maine"	66.RD	OS83347801	2,241
<b>Total Environmental Protection Agency</b>			<b>398,574</b>
<b>US Department of Energy</b>			
Passed through programs from:			
South Carolina Research Foundation			
Subcontract to Clemson University's Department of Energy Radiochemistry Education Award Program Proposal	81.RD	979755822320949	5,651
Metal Segregated Cluster Complexes: Organometallic Models for Bimetallic Synergism and Interface Activity	81.RD	DEFG0200ER14980	(433)
Fundamental Problems of Neutron Physics at the Spallation Neutron Source at the ORNL	81.RD	DEFG0203ER46043	(425)
Analysis and Development of a Robust Fuel for Gas-Cooled Fast Reactors	81.RD	DEFG0206ER46270	77,321
Integrated Hydrogeophysical and Hydrogeologic Driven Parameter Upscaling for Dual-Domain Transport Modeling	81.RD	DEFG0206ER64210	68,960
Integrated Hydrogeophysical and Hydrogeologic Driven Parameter Upscaling for Dual-Domain Transport Modeling	81.RD	DEFG0206ER64210	72,088
Hybrid Organic-Inorganic Composite Solar Cells for Efficient, Low-Cost, Photoelectric Energy Conversion	81.RD	DEFG0207ER46428	227,850
Hybrid Organic-Inorganic Composite Solar Cells for Efficient, Low-Cost, Photoelectric Energy Conversion	81.RD	DEFG0207ER46428	94,840
New Grid and Discretization Technologies for Ocean and Ice Simulations	81.RD	DEFG0207ER64431	84,490
Atomic-Scale Design of a New Class of Alloy Water-Gas-Shift Catalysts With Improved Sulfur Resistance-USC Subcontract	81.RD	R172126	2,014
Mercury Speciation in Coal Fired Power Plant Flue Gas-Experimental Studies and Model Development	81.RD	402780	15,482
MOX Toxicity Study	81.RD	RR267268/384039	7,279
2008-2009 A-01 and H-02 Wetland Organic Matter/Toxicity Study	81.RD	RR267673/384379	2,288
Hydrogen Fuel Cell Development in Columbia SC	81.RD	DEFG3608GO88116	145,294
Hydrogen Fuel Cell Development in Columbia SC	81.RD	DEFG3608GO88116	37,920
Hydrogen Fuel Cell Development in Columbia SC	81.RD	DEFG3608GO88116	30,702
Hydrogen Fuel Cell Development in Columbia SC	81.RD	DEFG3608GO88116	14,796
Hydrogen Fuel Cell Development in Columbia SC	81.RD	DEFG3608GO88116	30,536
Hydrogen Fuel Cell Development in Columbia SC	81.RD	DEFG3608GO88116	64,570
Processing and Interpretation of TGS-NOPEC Industry Seismic Data and Integration with Existing Surface-Source/			
Deep-Receiver (SSDR) High Resolution Seismic Data at MC118, Gulf of Mexico	81.RD	09-08-019	103,804
Regulatory Role of Aintegumenta in Organ Initiation and Growth	81.RD	DEFG0298ER20312	41,032
An Innovative High Thermal Conductivity Fuel Design	81.RD	DEFG0704ID14597	15,016
Advanced TRISO Fuels with Zirconium Carbide for Very High Temperature Reactors	81.RD	DEFG0707ID14774	45,902
Advanced Electrochemical Technologies for Hydrogen Production by Alternative Thermochemical Cycles	81.RD	3530USC-DOE4886	155,476
High Performance Electrolyzers for Hybrid Thermochemical Cycles	81.RD	DEFC0706ID14752	45,332
Laboratory Enhancements for Advanced Nuclear Fuel Development Related to GNEP	81.RD	DEFG0707ID14860	8,558
Professional Development Opportunity Fellowship Program	81.RD	801386	138,290
Nanoscale Deformation Measurement and Analysis	81.RD	802178	5,224
Technical Support to Refine and Validate PEMFC Model	81.RD	AFA-7-77646-01	45,129
University of South Carolina Fuel Cell Design Project - Project 2: Catalysts Studies	81.RD	DEFG3606GO86041	144,429
University of South Carolina Fuel Cell Design Project - Project 3: H2 Quality	81.RD	DEFG3606GO86041	85,008
University of South Carolina Fuel Cell Design Project - Project 4: Gaskets	81.RD	DEFG3606GO86041	244,445
University of South Carolina Fuel Cell Design Project - Project 5: High Temp Membrane	81.RD	DEFG3606GO86041	86,501
Ammonia Process by Pressure Swing Adsorption	81.RD	GO16105	165,742
Development of a Process Simulator for Adsorption Enhanced Reforming/Pressure Swing Reformer	81.RD	IE INC/DOE	36,758
Identification of Plant Endophyte Secondary Metabolites	81.RD	133670	11,989
Consortium Project #17: Internet University Reactor Experiments for Education in Nuclear Engineering and Research in Science	81.RD	2202139103	306,532
Contributions to the Summary of Current Knowledge about Community Resilience	81.RD	400006520	7,551
Raman Hollow-Capillary Gas Mixture Studies	81.RD	B573251	47,152
Raman Hollow Capillary Gas Mixture Studies	81.RD	B579890	27,100
Novel Non-Precious Metal Catalyst for PEMFC: Catalyst Selection Through Molecular Modeling and Durability	81.RD	DEFC3603G013108	6,246
Clean Energy Research	81.RD	DEFC3604G014232	(5,319)
New Adsorption Cycles for Carbon Dioxide Concentration and Capture	81.RD	DEFG2-05NT42545	3,770
Digital Image Correlation-Uncertainty Quantification	81.RD	PO#551836	39,234
South Carolina Universities Research and Education Foundation			
To Perform Hydrogen Transport Transient and State Analysis & Specimen Feasibility Analysis and Design	81.RD	C001572-O	10,101
Development of SEIRA Substrates Fabricated by Glancing Angle Vapor Deposition (GLAD) for			
Uranyl Ion Detection and Differentiation	81.RD	KP66705/WEST146	29,216
Synthesis and Spectroscopic Investigations of Novel Hydrogen Storage Materials	81.RD	WEST127/SC0202	9,700
NMR Analysis of SRNL Hydrogen Storage Compounds	81.RD	WEST137/SC0213	9,360
Development of Metallic and Dielectric-based Substrates by Electroless Deposition and			
Glancing Angle Vapor Deposition (GLAD)	81.RD	WEST160	15,500
SCUREF: SC0230 Amide/Borohydride Structural Analysis	81.RD	C001572-O	22,606
Proposal in Response to SRNS RFP#0232 "Materials Synthesis and Spectroscopic Studies"	81.RD	KP92267/WEST151	17,771
South Carolina Seismic Monitoring Network	81.RD	WEST089	124,717
SC0219 "Pyrosequencing of Four Different cDNA Libraries"	81.RD	WEST141	18,118
Remote Bathymetric Measurements with NCAM	81.RD	WEST158	11,762

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

<b>Federal grantor/pass-through grantor/program title</b>	<b>Federal CFDA number</b>	<b>Grant number</b>	<b>Expenditures</b>
<b>US Department of Energy, continued</b>			
Medical University of South Carolina			
Savannah River Site Former Production Worker Medical Surveillance Project	81.RD	MUSC08-093	32,181
Experimental Particle Physics	81.RD	DEFG0295ER40910	612,649
Cultural Resource Management on the Savannah River Site	81.RD	DEFC0998SR18931	798,936
Savannah River Archaeological Research Program	81.RD	DEFC0998SR18931	591
Transport Behavior of Superconductors at High Dissipative Currents	81.RD	DEFG0299ER45763	124,454
<b>Total US Department of Energy</b>			<b>4,629,786</b>
<b>US Department of Education</b>			
Passed through programs from:			
South Carolina Department of Education			
Continuation for the State Improvement Grant Evaluation	84.RD	08CB308-02	761
Strengthening Educators' Involvement with Homeless Students and Their Families	84.RD	09FH308-01	6,001
SIG Research: Evaluation Proposal for Extension of the State Improvement Grant	84.RD	08CB308-01	12,544
Reading First Evaluation	84.RD	R24457	187,422
Reading First Evaluation	84.RD	R24457	108,654
ICoach-Teacher Teams Professional Development Program for Middle Schools	84.RD	08MS308-03	281,440
ICoach - Teacher Teams Professional Development Program for Middle Schools - Year 2	84.RD	09MS308-02	139,179
Item Analysis of PACT for TRIAD Project	84.RD	09-CJ-308-02	7,701
Character Development in South Carolina: Evaluation and Technical Assistance	84.RD	SC DEPT OF EDU	4,054
Character Development in South Carolina: Evaluation and Technical Assistance	84.RD	SC DEPT OF EDU	52,026
South Carolina Research Foundation			
Center for International Business Education and Research	84.RD	P220A060013-07	327,742
Development and Validation of Behavioral Screeners for Early Identification and Intervention in Elementary School	84.RD	13492-01	61,587
Development of the IEP Quality Scale. Subcontract with the University of Illinois. Application to the			
Institute of Education Sciences Special Education Research on Individual Education Programs (CFDA Number 84.324)	84.RD	2006-02480-01	93,949
<b>Total US Department of Education</b>			<b>1,283,060</b>
<b>US Department of Health and Human Services</b>			
Passed through programs from:			
South Carolina Research Foundation			
Environmental Determinants of Pulmonary Disease: A New Approach to an Old Problem	93.RD	1K01EH000287-01	39,300
Population-Level Parenting Interventions to Reduce Prevalence of Child Abuse	93.RD	1R18CE001340-01	546,791
Exercise: A Novel Treatment for Obstructive Sleep Apnea	93.RD	1R36CD000695-01	15,279
Dissertation Award: Rural/Urban Differences in Missed Opportunities to Identify HIV-Infected Individuals in South Carolina	93.RD	1R36PS000844-01	420
Evaluation and Capacity Building Contract	93.RD	SCCFF/HHS	63,521
Long-Term Effect of Social Environments on Activity Patterns and Overweight among U.S. Adolescents	93.RD	1R40MC089580100	52,703
Genitourinary Infections During Pregnancy and Risk of Epilepsy, Autism, and ADHD	93.RD	1R40MC112770100	24,151
Maternal Sexual Infections and Adverse Child Outcomes	93.RD	R40MC06636	31,354
Mitochondrial Anti-Oxidant Factors and Redox Status	93.RD	1K22ES01378001	(32)
Methods to Detect Maternal Exposures and Child Outcomes	93.RD	1R01ES012895-01	85,842
Methods to Detect Maternal Exposures and Child Outcomes	93.RD	1R01ES012895-01	20,090
Methods to Detect Maternal Exposures and Child Outcomes	93.RD	1R01ES012895-01	82,575
Assessment of a Novel Environmental Justice Community-University Partnership	93.RD	1R03ES017357-01	11,598
Effect of TCDD-induced apoptosis on T cells	93.RD	7R01ES009098-09	440,234
Particulate Exposure and Cardiovascular Disease in the HPFS	93.RD	7R03ES016619-02	39,124
Mitochondrial Myopathy and Siderblastic Anemia	93.RD	PO#400955	14,544
Novel Accelerated in Vitro Breeding for Phytoremediation-Phase II STTR	93.RD	SOUTHERN SUN BI	(3,136)
Biodegradable Self-Inductive Scaffold for Cranial Regeneration	93.RD	1R03DE019180-01	9,885
Tissue Engineering of Skeletal Muscle	93.RD	F5603-02	422
Skeletal Muscle Tissue Engineering	93.RD	F5603-03	52,256
Informed Decision Making for Prostate Cancer (SIP 21-04 continued subcontract with the			
University of Texas-Houston, year 3)	93.RD	0004452B	34,628
Physical Activity Training for Public Health Professionals (Year 4)	93.RD	5U48DO000051-04	127,612
Health Promotion and Disease Prevention Research Centers (Year 4)	93.RD	5U48DP000051-04	225,492
SIP 13-04: The Healthy Aging Research Network (Year 4)	93.RD	5U48DP000051-04	8,404
SIP 8-06, Prevention Research to Promote and Protect Brain Health (Year 4)	93.RD	5U48DP000051-04	85,258
Development of a National Strategic Plan for Physical Activity	93.RD	5U48DP000051-04	33,276
Health Promotion and Disease Prevention Research Centers	93.RD	5U48DP000051-05	570,790
Physical Activity Training for Public Health Professionals	93.RD	5U48DP000051-05	61,686
Development of a National Strategic Plan for Physical Activity	93.RD	5U48DP000051-05	64,547
SIP 13-04: Prevention Research Centers' Health Aging Research Network (HAN)	93.RD	5U48DP000051-05	38,899
SIP 8-06: Prevention Research to Promote and Protect Brain Health	93.RD	5U48DP000051-05	239,260
SIP 2: Data on the Health of Older Adults at the State and Local Levels	93.RD	5U48DP000051-05	54,655
Population-Based System of Positive Parenting	93.RD	5R17CE422317-05	182,252
Using Bayesian Networks for Adaptive Management of Watershed/Estuarine Systems	93.RD	08-SC-NIH-1087	9,832
South Carolina Rural Health Research Center Cooperative Agreement	93.RD	2U1CRH03711-05	460,288
South Carolina Rural Health Research Center	93.RD	5U1CRH037110400	83,105
Neural Predictors of Anomia Recovery in Aphasia	93.RD	1R01DC00835501A	386,513
Spectro-temporal Processing of Speech by Normal and Impaired Listeners	93.RD	1R01DC008594-01	58,994

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Department of Health and Human Services, continued</b>			
South Carolina Research Foundation, continued			
A Unified Neuroanatomical Model of Speech Production and Perception: Implications for Apraxia of Speech and Conduction Aphasia	93.RD	1R01DC00957-01	1,673
Throat Clearing, Coughing, and Alternative Behaviors	93.RD	1R03DC008403-01	109,979
Efficacy of Laryngeal High-Speed Videoendoscopy	93.RD	NATL INST DEAFN	413,290
Analysis of Reproductive Periods Collected in the OSSM Project at Michigan State University	93.RD	61-0488SC	(1,858)
Organochlorine Exposure and Gene Expression of Sex Steroids in a Multigenerational Cohort of Michigan Fish Eaters	93.RD	61-0551SC	15,011
Center for CAM Research on Autoimmune and Inflammatory Diseases - Project 2	93.RD	1P01AT003961-01	319,169
Center for CAM Research on Autoimmune and Inflammatory Diseases - Admin. Core	93.RD	1P01AT003961-01	192,167
Center for CAM Research on Autoimmune and Inflammatory Diseases - Immunotox. Core	93.RD	1P01AT003961-01	138,059
Center for CAM Research on Autoimmune and Inflammatory Diseases - Project 1	93.RD	1P01AT003961-01	358,649
Center for CAM Research on Autoimmune and Inflammatory Diseases - Project 3	93.RD	1P01AT003961-01	195,586
Mechanisms of Chondroprotection by Pomegranate Fruit Extract	93.RD	7R01AT003627-02	296,203
Genetic, Cognitive, and Interpersonal Vulnerabilities to Depression in Youth	93.RD	1R01MH077195-01	17,091
Natural Experiment in Deviant Peer Exposure and Youth Recidivism	93.RD	1R03MH075808-01	8,615
Lentiviral Vectors for Targeted Manipulation of Amygdalar Gene Expression	93.RD	1R21MH076909-01	150,106
Amygdala Neuropeptides and Anxiety	93.RD	2R01MH063344-06	215,262
A Multilevel HIV Prevention Strategy for High-Risk Youth: Minority Supplement - Constance Shepard	93.RD	3U01MH066802-04	28,643
Stress Allostasis: CRF, Serotonin and the BNST	93.RD	5-28290-G1	21,056
A Multilevel HIV Prevention Strategy for High-Risk Youth	93.RD	5U01MH066802-04	241,968
A Multilevel HIV-Prevention Strategy for High-Risk Youth	93.RD	5U01MH066802-05	109,970
Risk Reduction via Promotion of Youth Development	93.RD	8-R1MH054171	95,569
Amygdalar Neuropeptides and Anxiety	93.RD	8-R1MH63344A	24,855
Evaluation of Project Safe	93.RD	1U79SM057844-02	2,608
Evaluation of Project SAFE: Agreement to Subcontract	93.RD	MENTAL HEALTH A	45,512
Mechanism of Alcohol Induced Neurotoxicity	93.RD	1R21AA016121-01	167,768
Amygdala NPY, Anxiety Phenotypes and Alcohol Consumption	93.RD	1R21AA017361-01	65,541
Amygdala NPY, Anxiety Phenotypes and Alcohol Consumption	93.RD	1R21AA017361-01	66,556
Alcohol Exposure, Social Behavior and Development	93.RD	2R01AA011566-07	303,806
Alcohol Metabolism Genes in Transgenic Mice	93.RD	5R01AA011828-08	89,154
Methodological Developments in the Prevention of Adolescent Drug Use	93.RD	1K01DA024116-01	142,847
Prenatal IV nicotine: Long-term Vulnerability to Stimulant Drugs	93.RD	1R01DA021287-01	224,244
Developmental Regulation of Endothelin Pain	93.RD	1R01DA023593-01	321,093
Role of Dopamine Transporter: HIV-1 Tat Protein and Nicotine Sensitization	93.RD	1R03DA026721-01	531
The Community Youth Development Study: A Test of Communities that Care	93.RD	578587	18,763
HIV/Cocaine Neurotoxicity in Females	93.RD	5R01DA013137-07	417,553
HIV/Cocaine Neurotoxicity in Females - Minority Supplement - Sheila Adams	93.RD	5R01DA013137-07	35,499
Cannabinoid-Induced Apoptosis in T Cell Regulation	93.RD	7R01DA016545-04	29,373
Housing, Adaptive Functioning, and Serious Mental Illness	93.RD	5K23MH06543903	1,076
An Efficacy Trial of Steps to Your Health for Adults with Learning Domain Disabilities	93.RD	1R01DD000111-01	363,248
Environmental Determinants of Pulmonary Disease: A New Approach to an Old Problem	93.RD	5K01EH000287-02	109,536
Diet & Activity Community Trial: High-Risk Colon Polyps	93.RD	1R24MD002769-01	415,982
EXPORT - Year 3 - Research Core	93.RD	5P20MD001770-03	2,814
EXPORT - Year 3 - Administrative Core	93.RD	5P20MD001770-03	9,958
EXPORT - Year 3 - Community Partnerships Outreach Core	93.RD	5P20MD001770-03	20,021
EXPORT - Year 3 - Research, Education and Training Core	93.RD	5P20MD001770-03	8,489
EXPORT Center to Eliminate Health Disparities	93.RD	5P20MD001770-04	39,470
EXPORT - Year 4 - Research Core	93.RD	5P20MD001770-04	323,691
EXPORT - Year 4 - Research Education and Training Core	93.RD	5P20MD001770-04	357,771
EXPORT - Year 4 - Administrative Core	93.RD	5P20MD001770-04	391,739
EXPORT - Year 5 - Research Education & Training Core	93.RD	NCMHHD/NIH	5,250
EXPORT - Year 4 - Community Partnerships Outreach Core	93.RD	5P20MD001770-04	328,953
The Hispanic Health Research Network: Enhancing Practice-Based Research Capacity in South Carolina	93.RD	1R03CA139625-01	28,855
Social Support for Mothers of Mentally Ill Children	93.RD	5R01NR008580-03	46,887
Telephone Peer Counseling for Rural Women with HIV	93.RD	8-R1NR04956A	49,801
Maximizing Animal Housing at University of South Carolina	93.RD	1G20RR023990-01	103,618
South Carolina's Center for Clinical and Translational Research: Planning Phase	93.RD	1P20RR023476-01	18,000
South Carolina COBRE for Developmentally Based Cardiovascular Diseases - Administrative Core	93.RD	2P20RR016434-06	40,878
South Carolina COBRE for Developmentally Based Cardiovascular Diseases - Molecular Imaging and Instrumentation Core	93.RD	2P20RR016434-06	25,247
COBRE: Administrative Core	93.RD	2P20RR017698-06	394,598
COBRE: Animal Core	93.RD	2P20RR017698-06	214,501
COBRE: Biometry Core	93.RD	2P20RR017698-06	28,209
COBRE: Pathology	93.RD	2P20RR017698-06	43,603
COBRE: Histology Core	93.RD	2P20RR017698-06	164,001
COBRE: Hofseth Project	93.RD	2P20RR017698-06	97,848
COBRE: Dixon Project	93.RD	2P20RR017698-06	101,890
COBRE: Buckhaults Project	93.RD	2P20RR017698-06	93,975
COBRE: Baudino Project	93.RD	2P20RR017698-06	194,948
COBRE: Thompson/Lavigne Project	93.RD	2P20RR017698-06	117,016
South Carolina COBRE for Developmentally Based Cardiovascular Diseases - Proteomics Facility	93.RD	2P20RR016434-06	13,751
Peromyscus Laboratory Animals for Biomedical Research	93.RD	2P40RR014279-10	8,409

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Department of Health and Human Services, continued</b>			
South Carolina Research Foundation, continued			
Predicting The Response to Treatment Using Gene Mutation Profiling in Metastatic Melanoma Patients (Dr. Phil Buckhaults - NIH Supplement)	93.RD	3P20RR017698-07	75,000
INBRE (Year 3) - Engineering	93.RD	5P20RR016461-07	(1,696)
INBRE (YEAR 3) - ADMINISTRATIVE CORE	93.RD	5P20RR016461-07	166,451
INBRE (Year 4) - Engineering	93.RD	5P20RR016461-08	22,258
INBRE (Year 4) - School of Medicine	93.RD	5P20RR016461-08	235,462
INBRE (Year 4) - Administrative Core	93.RD	5P20RR016461-08	566,023
South Carolina EPSCoR/IDeA Postdoctoral Academic Career Development Program - Dr. Shane Welch	93.RD	5P20RR016461-09	2,891
SC INBRE (Year 5) School of Medicine	93.RD	5P20RR016461-09	41,445
INBRE (Year 5)-Administrative Core	93.RD	5P20RR016461-09	14,651
Center for Colon Cancer Research-Start Up. (2008-2009)	93.RD	5P20RR017698-07	159,507
Center for Colon Cancer Research-Start Up TBD (2008-2009)	93.RD	5P20RR017698-07	156,800
Center for Colon Cancer Research-Seed Projects TBD (2008-2009)	93.RD	5P20RR017698-07	36,000
Center for Colon Cancer Research - GHS Collaboration (2008-2009)	93.RD	5P20RR017698-07	86,525
Center for Colon Cancer Research (2008-2009)	93.RD	5P20RR017698-07	92,801
Center for Colon Cancer Research	93.RD	NATL CTR RES	6,031
Center for Colon Cancer Research	93.RD	NATL CTR RES	14,094
Center for Colon Cancer Research	93.RD	NATL CTR RES	1,869
Center for Colon Cancer Research	93.RD	NATL CTR RES	3,197
Center for Colon Cancer Research (Project 5)	93.RD	NATL CTR RES	9,330
Center for Colon Cancer Research (Mouse Core)	93.RD	NATL CTR RES	3,730
Center for Colon Cancer Research (Admin Core)	93.RD	NATL CTR RES	27,440
Center for Colon Cancer Research (Histology Core)	93.RD	NATL CTR RES	5,762
South Carolina INBRE (Year 4)- PACD Scholar - C. Wilson (EPSCoR)	93.RD	P20RR-016461	56,210
Peromyscus Laboratory Animals for Biomedical Research	93.RD	SP40RR014279-09	154,770
Thymineless Stress, DNA Repair and Recombination	93.RD	1R01CA10045001A	70
Methods for Improved Diet and Exercise Measurement	93.RD	1R01CA114579	23,163
Evaluation and Development of Cancer Cluster Diagnostics	93.RD	1R03CA125828-01	18,342
A Pilot Investigation of Ethnic Disparities in Patient-Initiated Premature Treatment Discontinuation Among Colon Cancer Patients	93.RD	1R03CA128470-01	8,752
Sphingosine Kinase as a Target for Cancer Chemoprevention	93.RD	1R03CA137736-01	59,982
Regulation of the ATM/ATR-p53 DNA Damage Signaling Pathway by the Wip 1 Phosphatase	93.RD	1R0CA136549-01	27,218
Papillomavirus Conferences 2007-12	93.RD	1R13CA132461-01	24,700
A Population-Based HPV Survey of Women in South Carolina	93.RD	1R15CA125600-01	114,572
Developing Measures of the Built Nutrition Environment	93.RD	1R21CA132133-01	148,424
Thymineless Stress, DNA Repair and Recombination	93.RD	8-R1CA100450	188,868
Cell Cycle Specific CDK Inhibitors as Potential Anti-tumor Therapeutics Through Replace	93.RD	1R01CA131368-01	165,528
Thymidylate Synthase and Fluorodeoxyuridine Resistance	93.RD	2R01CA044013-18	180,007
Thymidylate Synthases: Modes of Catalysis and Inhibition	93.RD	2R01CA076560-04	8,122
Proteolytic Control of Glioblastoma	93.RD	7R01CA091460-06	57,601
Thymidylate Synthase and Fluorodeoxyuridine Resistance	93.RD	8-R1CA44013E	(1,665)
Thymidylate Synthases: Modes of Catalysis and Inhibition	93.RD	8-RCOA076560B	81,213
Thymidylate Synthases: Modes of Catalysis and Inhibition	93.RD	9-R1CA076560	12,323
Cachexia in ApcMin/+mice: The Role of IL-6	93.RD	1R01CA121249-01	184,986
Gene-Nutrient Interactions and Breast Cancer	93.RD	7K07CA102640-04	35,387
Modeling Inter-Rater Agreement Using Mixed Models	93.RD	1R03CA114783-01	2,394
South Carolina Cancer Disparities Community Network: Research Supplement to Promote Diversity in Health - Related Research (Armstead)	93.RD	3U01CA114601-03	2,945
SCCDCN: HPV Vaccine Acceptability and Promotion in Faith-Based Settings	93.RD	3U01CA114601-03	13,874
South Carolina Cancer Disparities Community Network: Research Supplement to Promote Diversity in Health-Related Research (Justin Smith-Year 2)	93.RD	3U01CA114601-04	51,284
South Carolina Cancer Disparities Community Network (SCCDCN): Non-competing renewal	93.RD	5U01CA114601-04	397,797
SC Cancer Disparities Community Networks-Epigenetics and Diet in the Carcinogenesis Process	93.RD	5U01CA114601-04	35,694
South Carolina Cancer Disparities Community Network (Non-competitive renewal YR5)	93.RD	5U01CA114601-05	59,443
Defining the Built Environment	93.RD	7R21CA121151-03	21,812
Curcumin and Quercetin in Colon Cancer: Role of Macrophage-Induced Inflammation - ARRA	93.RD	1R21CA135377-01	1,165
Mechanisms of Xenoestrogen Stress: A Proteomic and Functional Genomic Approach - ARRA	93.RD	1R21ES016617-01	5,896
NIH Administrative Supplement: Cell Cycle Specific CDK Inhibitors as Potential Anti-Tumor Therapeutics Through Replace - ARRA	93.RD	3R01CA131368-01	2,108
New Statistical Models for Recurrent Event Data	93.RD	5R01GM056182-06	38,507
Subcontract: ENLACE: A Partnership to Promote Physical Activity Among Mexican Immigrant Woman	93.RD	128191/127634	30,587
Development of Xenopus as a Model of Human Congenital Heart Disease	93.RD	1K02HL086737-01	111,322
The Morphogenetic Regulation of Cardiac Valves by Fluid Flow	93.RD	1K02HL086901-01	102,407
Estrogen Modulation of Fibroblast Function in the Pressure Overloaded Heart	93.RD	1R01HL083441-01	307,542
A Partnership to Promote Physical Activity and Healthy Eating in AME Churches	93.RD	1R01HL083858-01	525,156
Dynamic Interaction between Cardiac Fibroblasts, Myocytes and the ECM	93.RD	1R01HL085847-01	125,173
Dynamic Interaction between Cardiac Fibroblasts, Myocytes and the ECM	93.RD	1R01HL085847-01	18,151
The Role of Fluid Flow in Valvulogenesis	93.RD	1R01HL086856-01	45,591
The Role of Fluid Flow in Valvulogenesis	93.RD	1R01HL086856-01	304,831
The Role of Fluid Flow in Valvulogenesis	93.RD	1R01HL086856-01	42,582



**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Department of Health and Human Services, continued</b>			
South Carolina Research Foundation, continued			
Physical Activity During the Transition from Elementary School to Middle School	93.RD	1R01HL091002-01	32,628
Is Childhood Obesity Related to Participation in School Meals	93.RD	1R21HL088617-01	97,505
Home-based Pain Management Training for Pediatric Sickle Cell Disease	93.RD	1R21HL092336-01	23,382
Physical Activity and Childhood Obesity (sub-contract)	93.RD	2R01HL071248-05	9,480
Sexual Hormones, Cardiac Mast Cells and Cardioprotection (Minority Supplement)	93.RD	3R01HL073990-03	33,425
Supplement to: A Partnership to Promote PA & Healthy Eating in AME Churches 1 R01 HL083858-01	93.RD	3R01HL083858-02	50,503
HHER Lifestyle Program for CVD Risk Reduction	93.RD	5R01HL0730102	3,617
Role of Discoidin Domain Receptor 2 in Valvulogenesis	93.RD	5R01HL73937-02	24,707
Endothelial Cell Injury by Cytolytic Lymphocytes	93.RD	7R01HL058641-08	6,922
Cardiac Mast Cell: Role in Pathogenesis of Heart Failure	93.RD	7R01HL062228-06	32,516
Sexual Hormones, Cardiac Mast Cells and Cardioprotection	93.RD	7R01HL07399002	81,404
Children's Dietary Recalls: Methodology and Accuracy	93.RD	8-R01HL074358	242,102
Memory Errors in Children's Dietary Recalls	93.RD	8-R1HL07308	569
Regulation of AV Canal Formation by the Jak-STAT Pathway	93.RD	8-R1HL7295801	117,566
Trial of Activity for Adolescent Girls - Minority Supplement (Year 2)	93.RD	8-U1HL66852A	3,081
HYPGENE - Genetics, Fitness, Obesity, and Risk of Hypertension (Sub-Contract)	93.RD	R01HL069870	13,029
The Influence of Gender on Molecular Signatures of Fibrotic Lung Disease	93.RD	1R03HL095429-01	25,093
The Influence of Gender on Molecular Signatures of Fibrotic Lung Disease	93.RD	1R03HL095429-01	26,132
Role of ASIC3 in the Etiology of Fibromyalgia	93.RD	1000555807	27,932
Role of Matrix Vesicles in Calcification	93.RD	8-R1AR189832	(2,646)
Treatment Options for Type 2 Diabetes in Adolescents and Youth(TODAY)	93.RD	08-D14	27,477
Behavioral/Support Intervention for Diet and Exercise Among Underserved Women	93.RD	1R01DH074666-01	545,478
Behavioral/Support Intervention for Diet and Exercise Among Underserved Women	93.RD	1R01DK074666-01	26,069
Spatial Epidemiology of Diabetes in the SEARCH for Diabetes in Youth Study	93.RD	1R01DK077131-01	287,862
Treatment Options for Type 2 Diabetes in Adolescents and Youth (TODAY)	93.RD	234388CCLS488F	2,945
Improving Safety and Access for Physical Activity-Minority Supplement for Sara Mijares	93.RD	3R01DK067615-02	35,653
Glycation of Protein in Diabetes	93.RD	4R37DK01997-31	381,865
Bridging Barriers to Diabetes Care with Telemedicine	93.RD	5-52205	24,190
Bridging Barriers to Diabetes Care with Telemedicine	93.RD	8-R1DK067312	165,891
Diabetes Prevention Program Outcomes Study(DPP-OS)	93.RD	S-DPP0809-JT05	665
TrialNet Natural History Study of the Development of Type 1 Diabetes: Phase 1 Screening	93.RD	U01DK61055	472
TrialNet Natural History	93.RD	UF7118	189
Nutrition and Metabolic Status in Youth with Type 1 DM: SEARCH Ancillary Study	93.RD	UNC/NIH/USCRF	75,405
Insulin and CNS Control of Body Weight	93.RD	005263	43,553
Improving Safety and Access for Physical Activity	93.RD	1R01DK067615-01	679,544
Structural Studies and Functional Regulation of KLF4	93.RD	5K01DK069489-04	92,207
Role of Sensory Neuropeptides in the Regulation of Biliary Function	93.RD	S090001	42,501
Healthy Outcomes of Healthy Weight Loss (LOOK AHEAD)	93.RD	WHUHS14108	6,142
Beta-Adrenergic Relaxation of Urinary Bladder Smooth Muscle	93.RD	1K01DK07090901A	77,974
Hippocampal Insulin Signaling Deficits in Diabetic Rats	93.RD	1R01NS04772801	276,456
Dissociating Components of the Attentional Network in Neglect	93.RD	1R01NS054266-01	297,795
Examining the Role of the Lissencephaly Protein, Lis1, in Dynein-based Transport	93.RD	1R01NS056314-01	236,342
Impact of Physical Activity on Stroke and Cognitive Function in Older Adults	93.RD	1R01NS061846-01	297,491
Injury-Induced Pain: Chemical Modulation of Nociception	93.RD	2000010756	35,516
Synaptic Organization of the Basolateral Amygdala	93.RD	2R56NS038998-10	385,209
Astrocyte-Macrophage Interactions in HIV-1 Regulation	93.RD	5R00NS050064-04	306,824
Differentiation and Apoptosis in Malignant Neuroblastoma	93.RD	7R01NS057811-03	471,981
Synaptic Organization of the Basolateral Amygdala	93.RD	8-R1NS038998	38,183
Structural Determinants of GABA-A Receptor Function	93.RD	8-R1NS045950-01	76,848
Disease Detection and Prevalence Estimation through Informative Group Testing	93.RD	24-05480001002	16,761
Disease Detection and Prevalence Estimation through Informative Group Testing	93.RD	24-0548-001-002	96,027
Role of CD44 in EC Injury and Melanoma Therapy	93.RD	5R01A1053703-05	21,439
Genetic & Epidemiologic Cohort Study on Asthma and Allergy	93.RD	61-0731SC	46,647
Cytotoxic Lymphocytes in Acute Lung Injury	93.RD	7R01AI058300-03	260,305
Phylogenetic Analysis with Complex Genome Rearrangement Events	93.RD	1R01GM078991-01	13,667
Phylogenetic Analysis with Complex Genome Rearrangement Events	93.RD	1R01GM078991-01	100,649
Haloacetamide Based Inactivators of Protein Arginine Deiminase 4	93.RD	1R01GM079357-01	136,341
RecQ Helicases and Genomic Instability	93.RD	1R01GM081472-01	233,266
Characterization of the Suf Fe-S Cluster Biosynthesis Pathway Under Stress	93.RD	1R01GM081706-01	259,597
Structure and Dynamics of Membrane Proteins from NMR Orientational Constraints	93.RD	1R01GM081793-01	165,489
South Carolina Initiative for Minority Development	93.RD	1R25GM076277-02	(17,381)
Reactivity of Transient Cyt P450 Oxygen Intermediates	93.RD	2R01GM026730-19	173,622
Structure/ Function of Terminal Complement Proteins	93.RD	2R01GM042898-18	311,682
Haloacetamide Based Inactivators of Protein Arginine Deiminase 4 - (Supplement for Tanesha Osborne)	93.RD	3R01GM079357-01	2,057
Racial Stress Coping Scale	93.RD	5F31GM070069-04	977
South Carolina Post-Baccalaureate Research Education	93.RD	5R25GM06652604	30,163
South Carolina Post-Baccalaureate Research Education	93.RD	5R25GM066526-05	192,788
South Carolina Initiative for Minority Student Development	93.RD	5R25GM076277-03	410,015
Evolution of Immune Recognition and Evasion	93.RD	8-R01GM04394018	179,412
Development of Peromyscus Genomics	93.RD	8-R1GM69601	141,632

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Department of Health and Human Services, continued</b>			
South Carolina Research Foundation, continued			
Risk in Context: New Methodology for Modeling Risk by Context Interactions	93.RD	1R01HD054736-01	84,103
Cortical Plasticity Following Hemispherectomy: The Effects of Intervention	93.RD	1713GGC130	277
Multi-Component Intervention to Increase Physical Activity in Preschool Children	93.RD	1R01HD055451-01	502,144
Precursors of Retardation in Children with Teen Mothers	93.RD	201172	30,999
Physical Activity in Preschool Children - Supplement	93.RD	3R01HD043125-02	108,423
Tracking' Tracking and Achievement Growth in the Elementary Grades: Continuing A Nationwide Longitudinal Inquiry	93.RD	41618-00-03A	38,640
Physical Activity in Preschool Children	93.RD	5R01HD043125-04	37,607
Self-Determination for Increasing Physical Activity	93.RD	5R01HD04569302	360,035
Perinatal Research Society Annual Meeting	93.RD	7R13HD03624408	12,200
Role of Specific Proteins in Spermatogenesis	93.RD	8-R1HD010793	14,776
The Development of Sustained Attention in Infants	93.RD	8-R1HD018942-21	324,007
Maternal HIV: Developmental Neurotoxicity	93.RD	8-R1HD043680A	47,526
Media-Based Programming to Enhance Parenting	93.RD	8-R1HD426210	269,879
Examining Parameters of Constraint-Induced Therapy	93.RD	UF06038A	24,230
Aging, Acetylcholine and the Hypothalamus	93.RD	1R01AG030646-01	177,329
Factors Influencing Physical Activity in Older African American Men	93.RD	1R21AG028674-01	41,316
Processing Discourse Reference in Mind and Brain	93.RD	1R21AG030445-01	119,258
Procognitive and Antipsychotic Activity of JWS-USC-75IX	93.RD	22438	8,595
LIFE Pilot Study: Physical Exercise to Prevent Disability - Year 2	93.RD	UF08015	76,112
Xanthophyll-Mediated Retinal Drug Delivery	93.RD	7R03EY014842-03	41,518
Comparative Bioinformatics and Tp53 Expression	93.RD	1R01LM00862601A	(2)
Comparative Bioinformatics and Tp53 Expression	93.RD	1R01LM00862601A	72,786
Enhancing Linkages to HIV Primary Care and Services in Jail Settings Demonstration Models	93.RD	1H97HA085420100	86,526
South Carolina Linkage Programs for Inmates, Non competing Application 2008, HRSA 5-H97-08-001, CFDA No. 93.928	93.RD	1H97HA085420200	335,386
PS07-003 Minority HIV/AIDS Research Initiative (MARI) - Empowering Latinas to Lash Out Against AIDS/STIs (ELLAS)	93.RD	1U01PS000697-01	62,486
PS07-003 Minority HIV/AIDS Research Initiative (MARI)- Empowering Latinas to Lash-Out Against AIDS/STIs (ELLAS)	93.RD	1U01PS000697-02	121,520
SEARCH for Diabetes in Youth 2: South Carolina Center	93.RD	5-53367	405,196
SEARCH for Diabetes in Youth 2: South Carolina Center	93.RD	5U01DP000254-03	544
iGTO: A Web-based it Solution for Outcome-based Prevention Phase II	93.RD	105767	76,642
Epidemiology of Asthma: Risk & Prognosis in a Cohort from Birth to Adolescence	93.RD	1R01HL082925-01	5,993
Molecular Predictors of Colorectal Cancer Recurrence - ARRA	93.RD	1R21CA127683-01	4,244
Longitudinal Follow-up of Youth with ADHD Identified in Community Settings	93.RD	200-2006-18949	326,553
Genotyping Assays for Buffalo Police Cohort Study	93.RD	212-2008-M24052	3,646
Subcontract for Domain Specific Tasks of Executive Function	93.RD	5031SC	80,244
Functional Neuroanatomy of the Basolateral Amygdala	93.RD	5-23415-G1	20,241
Cannabidiol and Schizophrenia: Effects of Clozapine(subcontract to NIH award through Dartmouth University)	93.RD	5-30007.5750	10,708
Sub-contract with Macro International for National Physical Activity and Nutrition Survey of High School Students	93.RD	MACRO INTERNATI	40,401
Administrative Supplement: The Development of Sustained Attention in Infants	93.RD	NICHHD/NIH	8,275
A Multicenter, Open-label, Controlled Phase II Study to Evaluate Safety and Immunogenicity of MVA-BN (IMVAMUNE)	93.RD	POX-MVA-011	44,775
Smallpox Vaccine in 18 - 55 Year Old Naïve and Previously Vaccinated HIV Infected Subjects with CD4 Counts>200 - 500	93.RD	SANDHILLS MED	15,861
Evaluation for the Special Project of National Significance, HIV and Oral Health	93.RD	SCCA/CDC	13,500
A Feasibility Study of a South Carolina State Mammography Registry	93.RD	SCCF/SCDSS/HHS	39,560
Temporary Aid to Needy Families (TANF)	93.RD	S3597-24/26	1,958,187
Institute for HIV Prevention Leadership			
Association of University Centers on Disabilities			
Autism Spectrum Disorder Collaborative Research Project	93.RD	438	8,944
Lieutenant Governor's Office			
Continuation of the Evaluation of "Empowering Older People to Take More Control of their Health Through Evidence-Based Prevention Programs: A Public/Private Collaboration"	93.RD	EBD0505	2,092
Empowering Older People to Take More Control of their Health Through Evidence-Based Prevention Programs: A Public/Private Collaboration (Year 3)	93.RD	EBD0905	16,874
Evaluation of Systems Transformation: Links for Community Living	93.RD	SC LIEUTENANT G	54,313
Evaluation of PRTF Waiver Implementation	93.RD	A91571A	56,824
Evaluation of ADRC Expansion Grant	93.RD	ADXU08	4,313
Effects of OAA Services on Medicare Utilization & Costs	93.RD	LGOA/AOA	19,154
Systems Transformation Grant SFY 2008 Evaluation	93.RD	8USCST	1,166
Medical University of South Carolina			
Adapting MST to Address Transmission Risk Behaviors in HIV+ Young People	93.RD	MH077500-USC	11,732
Translating an Efficacious HPV Vaccine into the Control of Cervical Cancer	93.RD	MUSC07-010	6,788
Dynamic Interaction Between Cardiac Fibroblasts, Myocytes and the ECM	93.RD	MUSC09-035	824
Role of Proteinase in Spinal Cord Injury	93.RD	MUSC08-092	42,000
Attenuation of Axonal Damage and Neuronal Death in EAE	93.RD	MUSC08-120	40,536
Development of PIM Inhibitors as Anti-cancer Agents	93.RD	SCTR #0912	10,622
Drug Design and Synthesis Core	93.RD	SCTR #0913	15,213
Fabrication of Wireless Oxygen Sensor for Pediatric Cardiac Surgery Using MEMS Technology	93.RD	SCTR 0917	1,562

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Department of Health and Human Services, continued</b>			
South Carolina Department of Health and Environmental Control			
Contract No. EH-09-065 between the SC Department of Health and Environmental Control, Bureau of Environmental Health and the University of South Carolina	93.RD	PO#752437	9,622
Antibiotic Prescribing Behavior and Outcomes	93.RD	PO#706238	82
Get Smart: Know When Antibiotics Work on the Farm - Phase II Communications Campaign for South Carolina Dairy Farmers (Subcontract from South Carolina Department of Health and Environmental Control)	93.RD	PO#709232	981
Antibiotic Prescribing in South Carolina	93.RD	PO#737249	9,999
Contract Between South Carolina Department and USC to Provide Services of an Environmental Epidemiologist	93.RD	PO#754934	31,208
Pregnancy Risk Assessment Monitoring System	93.RD	PO#674647	13,271
Behavioral Risk Factor Surveillance System	93.RD	PO#563420	77,767
Behavioral Risk Factor Surveillance Survey	93.RD	PO#755326	151,756
South Carolina Department of Health and Human Services			
Purchase and Provision of Alzheimer's Disease Registry Management and Training and Development Related to Dementia	93.RD	A00088A	581,432
SCDHHS Medicaid Eligibility Quality Improvement 2007-2008 Contract	93.RD	A81425A	4,668
Evaluation of the South Carolina Medicaid Family Planning Waiver FY 2009	93.RD	A90967A	39,813
SCDHHS Medicaid Eligibility Quality Improvement 2008-2009 Contract	93.RD	A91425A	888,090
Independent Program Evaluation and Technical Assistance and Consultation Efforts with Medically Complex Medicaid Recipients	93.RD	A91494A	1,823,267
SCDHHS Medicaid Eligibility Quality Improvement 2009-2010 Contract	93.RD	SCDHHS/HHS	1,621
South Carolina Department of Social Services			
USC College of Social Work & SC DSS Child Care Data Bridge Project	93.RD	C90027H	17,410
Purchase of Social Work Training for DSS Staff and Agents	93.RD	C80004S	708,860
Technical Assistance and Development Project for an Electronic System of Data Collection and Authentic Assessment for Infant and Toddlers	93.RD	C80001H	18,211
Technical Assistance and Development Project for an Electronic System of Data Collection and Authentic Assessment of Preschool Age Children	93.RD	C80011H	19,919
Technical Assistance and Development Project for an Electronic System of Data Collection and Authentic Assessment for Infant and Toddlers (Year 2)	93.RD	C90001H-2	92,032
South Carolina Child Care State Research Capacity Building Project(Child Care Data Bridge)	93.RD	C90011H-1	6,449
South Carolina Sea Grant Consortium			
Expanding Existing Surveillance Systems to Include Pfiesteria, Other Harmful Algal Blooms, and Marine Toxins	93.RD	CD06	(5,705)
Expanding Existing Surveillance and Reporting of Pfiesteria, Other Harmful Algal Blooms, and Algal Toxins	93.RD	CD11	5,966
Utilizing HABISS to Document, Analyze, and Interpret the Impacts of Harmful Algal Blooms and their Associated Marine Toxins on Ecosystems and Humans in South Carolina	93.RD	SC SEA GRT/CH03	30,391
South Carolina Department of Mental Health			
Evaluation of the State Incentive Grants for Treatment of Persons with Co-Occurring Substance Related and Mental Disorders - Year 3 Continuation	93.RD	J12F108	62,959
Statistical Analysis for SC Department of Mental Health--Education, Training and Research	93.RD	SC DMH	6,893
National Childhood Cancer Foundation			
National Childhood Cancer Foundation	93.RD	17609	20,614
Office of the Governor			
Evaluation of the State Incentive Grants for Treatment of Persons with Co-Occurring Substance Related and Mental Disorders	93.RD	OFF OF GOVERNOR	21,916
South Carolina Center for Fathers and Families (SCDSS)			
Temporary Aid to Needy Families (TANF)	93.RD	SCCFE/SCDSS/HHS	11,093
University of Notre Dame			
Precursors of Retardation in Children with Teen Mothers	93.RD	2R01HD2645606A1	(4,224)
Mechanisms of Asbestos-Induced Clca 1 and Mucin in Lung Epithelium	93.RD	8-KES014742A	110,918
Trial of Activity for Adolescent Girls - Field Center	93.RD	8-U1HL66852A	12,702
<b>Total US Department of Health and Human Services</b>			<b>38,496,774</b>
<b>Social Security Administration</b>			
Passed through programs from:			
South Carolina Department of Health and Human Services			
SCDHHS PERM FY2007 Contract	96.RD	A81553A	1,269
<b>Total Social Security Administration</b>			<b>1,269</b>
<b>Homeland Security</b>			
Passed through programs from:			
South Carolina Research Foundation			
Domestic Weapons of Mass Destruction: Potential Populations at Risk from US Chemical Facilities Releases	97.RD	Z930110	13,778
Domestic Weapons of Mass Destruction: Potential Populations at Risk from US Chemical Facilities Releases	97.RD	Z930110	50,227
Center of Excellence and Social Research on Terrorism and Counter-Terrorism (subcontract to the University of Maryland)	97.RD	Z988505	282,213
Investigations on Levee Breach Closure Procedures	97.RD	08-01-065	38,802
Incorporation of Essential Elements of Information (EEI) in the Remote Sensing Hazard Guidance System (RSHGS)	97.RD	08-06-077	42,994
South Carolina Emergency Management Division			
Geospatial Risk Assessment Support Protocols (GRASP)	97.RD	PO#1361	2,804
South Carolina Hazards Assessment and Geo-Information Support (SCHAGIS)	97.RD	PO#1609	70,001
South Carolina Law Enforcement Division			
South Carolina Citizen Awareness and Preparedness Project	97.RD	SLED/DHS	80,520
<b>Total Homeland Security</b>			<b>581,339</b>

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Agency for International Development</b>			
Passed through programs from:			
South Carolina Research Foundation			
Capacity Building for Research, Education, and Training in Water Resources Management in Pakistan	98.RD	PGA-7251-05-005	16,642
<b>Total US Agency for International Development</b>			<b>16,642</b>
<b>Total Research and Development Cluster</b>			<b>80,257,332</b>
<b><u>Student Financial Aid Cluster</u></b>			
<b>US Department of Education</b>			
SEOG 2007-2008 2 Yr Campus	84.007	P007A073812	12,063
SEOG 2007-2008 Columbia	84.007	P007A073813	99,632
SEOG 2007-2008 Aiken	84.007	P007A077399	4,949
SEOG 2007-2008 Upstate	84.007	P007A077400	828
SEOG 2007-2008 Beaufort	84.007	P007A078840	-
SEOG Clearing Account	84.007	P007A083812	5,485
SEOG 2008-2009 2 Yr Campus	84.007	P007A083812	91,406
SEOG 2008-2009 Columbia	84.007	P007A083813	663,444
SEOG 2008-2009 Aiken	84.007	P007A087399	136,157
SEOG Clearing Account-USC Upstate	84.007	P007A087400	424
SEOG 2008-2009 Upstate	84.007	P007A087400	194,622
SEOG 2008-2009 Beaufort	84.007	P007A088840	47,678
SEOG Program Federal Liability Account	84.007	NONE	500
Federal Family Education Loan Program	84.032	NONE	211,076,522
FWS 2007-2008-Master-2Yr Campus	84.033	P033A073812	2,264
FWS 2007-2008-Sumter	84.033	P033A073812	3,467
FWS 2007-2008-Lancaster	84.033	P033A073812	806
FWS 2007-2008-Salkehatchie	84.033	P033A073812	1,082
College Work-Study Prog Instruction 07-08	84.033	P033A073813	27,186
College Work-Study Prog Research 07-08	84.033	P033A073813	10,912
College Work-Study Prog/Public Svs 07-08	84.033	P033A073813	6,126
College Work-Study/Academic Sup Lib 07-08	84.033	P033A073813	1,405
College Work-Study/Academic Sup Oth 07-08	84.033	P033A073813	4,339
College Work-Study/Student Services 07-08	84.033	P033A073813	3,422
College Work-Study/Inst Support 07-08	84.033	P033A073813	4,835
College Work-Study/O&M 07-08	84.033	P033A073813	5,577
College Work-Study/Auxiliary 07-08	84.033	P033A073813	7,362
College Work-Study/Scholarships 07-08	84.033	P033A073813	27
College Work-Study 2007-2008 Aiken	84.033	P033A077399	(130)
College Work-Study 2007-2008 USC Upstate	84.033	P033A077400	2,830
FWS Clearing Account-Beaufort	84.033	P033A078840	2,170
FWS 2007-2008-Beaufort	84.033	P033A078840	2,508
FWS 2008-2009 Master-2Yr Campus	84.033	P033A083812	4,137
FWS 2008-2009-Sumter	84.033	P033A083812	41,475
FWS 2008-2009-Lancaster	84.033	P033A083812	19,511
FWS 2008-2009-Salkehatchie	84.033	P033A083812	104,169
FWS 2008-2009-Union	84.033	P033A083812	31,749
College Work-Study-Clearing Account Federal	84.033	P033A083813	32,095
College Work-Study 2008-2009 Columbia	84.033	P033A083813	148,764
CWS Job Location & Development 2008-2009	84.033	P033A083813	50,000
College Workstudy/Scholarships 08-09	84.033	P033A083813	343
College Work-Study-Clearing Account Federal	84.033	P033A087399	(657)
College Work-Study 2008-2009 Aiken	84.033	P033A087399	134,889
College Work-Study-Clearing Account Federal	84.033	P033A087400	14,536
College Work-Study 2008-2009 USC Upstate	84.033	P033A087400	137,265
FWS 2008-2009-Beaufort	84.033	P033A088840	21,633
College Work-Study Prog Instruction 08-09	84.033	P038A083813	398,218
College Work-Study Prog Research 08-09	84.033	P038A083813	165,477
College Work-Study Prog/Public Svs 08-09	84.033	P038A083813	87,233
College Work-Study/Academic Sup Lib 08-09	84.033	P038A083813	19,707
College Work-Study/Academic Sup Oth 08-09	84.033	P038A083813	58,228
College Work-Study/Student Services 08-09	84.033	P038A083813	49,360
College Work-Study/Inst Support 087-09	84.033	P038A083813	67,473
College Work-Study/O&M 08-09	84.033	P038A083813	84,356
College Work-Study/Auxiliary 08-09	84.033	P038A083813	121,203
Pell Grant 2006-2007 Columbia	84.033	P063P062200	1,252
Federal Perkins Loan Program 2008-2009 2 Yr Campuses	84.038	P038A083812	498,642
Federal Perkins Loan Program 2008-2009 Columbia	84.038	P038A083813	2,106,804
Federal Perkins Loan Program 2008-2009 Aiken	84.038	P038A087399	70,508
Federal Perkins Loan Program 2008-2009 Spartanburg	84.038	P038A087400	85,053
College Work-Study 2007-2008 Columbia	84.063	P033A073813	394,720
Pell Grant Program 2006-2007/Sumter	84.063	P063P063261	3,588
Pell Grant Program 2006-2007/Lancaster	84.063	P063P063261	8,292

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>Student Financial Aid Cluster, continued</b>			
<b>US Department of Education, continued</b>			
Pell Grant Program 2006-2007/Salkehatchie	84.063	P063P063261	8,648
Pell Grant Program 2006-2007/Union	84.063	P063P063261	1,344
Pell Grant 2007-2008/Columbia	84.063	P063P072200	39,760
Pell Grant 2007-2008/Aiken	84.063	P063P072201	8,496
Pell Grant 2007-2008/USC Upstate	84.063	P063P072877	24,764
Pell Grant Program 2007-2008/Sumter	84.063	P063P073261	3,438
Pell Grant Program 2007-2008/Lancaster	84.063	P063P073261	8,370
Pell Grant Program 2007-2008/Salkehatchie	84.063	P063P073261	(4,157)
Pell Grant Program 2007-2008/Union	84.063	P063P073261	4,155
Pell Grant 2007-2008/Beaufort	84.063	P063P075738	2,290
Pell Grant 2008-2009/Columbia	84.063	P063P082200	12,822,168
Pell Grant 2008-2009/Columbia - ARRA	84.063	P063P082200	81,624
Pell Grant 2008-2009/Aiken	84.063	P063P082201	3,433,254
Pell Grant 2008-2009/Aiken - ARRA	84.063	P063P082201	14,450
Pell Grant 2008-2009/USC Upstate	84.063	P063P082877	5,843,020
Pell Grant Program 2008-2009/Sumter	84.063	P063P083261	1,299,465
Pell Grant Program 2008-2009/Sumter - ARRA	84.063	P063P083261	9,401
Pell Grant Program 2008-2009/Lancaster	84.063	P063P083261	1,707,275
Pell Grant Program 2008-2009/Salkehatchie	84.063	P063P083261	1,764,791
Pell Grant Program 2008-2009/Union	84.063	P063P083261	661,502
Pell Grant 2008 - 2009/Beaufort	84.063	P063P085738	1,145,995
Pell Grant 2008 - 2009/Beaufort - ARRA	84.063	P063P085738	12,190
Pell Grant Admin Allow FY 2007-2008	84.063	P063Q072200	250
Pell Grant Admin Allow FY 2007-2008	84.063	P063Q072201	35
Pell Grant Admin Allow FY 2007-2008	84.063	P063Q072877	165
Pell Grant Admin Allow FY 2007-2008	84.063	P063Q073261	515
Pell Grant Admin Allow FY 2007-2008/Beaufort	84.063	P063Q075738	65
Pell Grant Admin Allow FY 2008-2009	84.063	P063Q082200	19,860
Pell Grant Admin Allow FY 2008-2009	84.063	P063Q082201	5,105
Pell Grant Admin Allow FY 2008-2009	84.063	P063Q082877	9,010
Pell Grant Admin Allow FY 2008-2009	84.063	P063Q083261	8,735
Pell Grant Admin All 2008-2009/Beaufort	84.063	P063Q085738	1,830
Pell Grant Program Federal Liability	84.063	NONE	3,816
Academic Competiveness Grant (ACG)	84.375	P375A063261	3,725
Academic Competiveness Grant (ACG)	84.375	P375A072200	(813)
Academic Competiveness Grant (ACG) 07-08	84.375	P375A073261	375
Academic Competiveness Grant (ACG) 08-09	84.375	P375A082200	831,227
Academic Competiveness Grant (ACG) 08-09	84.375	P375A082201	201,255
Academic Competiveness Grant (ACG) 08-09	84.375	P375A082877	262,975
Academic Competiveness Grant (ACG) 08-09	84.375	P375A083261	38,950
Academic Competiveness Grant (ACG) 08-09	84.375	P375A083261	42,056
Academic Competiveness Grant (ACG) 08-09	84.375	P375A083261	14,600
Academic Competiveness Grant (ACG) 08-09	84.375	P375A083261	10,100
Academic Competiveness Grant (ACG) 08-09	84.375	P375A085738	36,575
Smart Grant 2007-2008	84.376	P376S072200	3,000
Smart Grant 2008-2009	84.376	P376S082200	362,957
SMART GRANT 2008-2009/AIKEN	84.376	P376S082201	38,000
SMART GRANT 2008-2009/USC UPSTATE	84.376	P376S082877	123,270
Teach Grant 2008-2009/USC Upstate	84.379	P379T092877	13,000
<b>Total US Department of Education</b>			<b>248,302,802</b>
<b>US Department of Health and Human Services</b>			
Health Professions Student Loan - Columbia Pharmacy	93.342	NONE	64,612
Health Professions Student Loan - Columbia Medicine	93.342	NONE	176,541
Health Professions Student Loan - Columbia Primary Care	93.342	NONE	1
Nursing Student Loan - Columbia Associate	93.364	NONE	912
Nursing Student Loan - Columbia Baccalaureate	93.364	NONE	151,103
Nursing Student Loan - Columbia Graduate	93.364	NONE	6,000
Nursing Student Loan - Aiken Associate	93.364	NONE	776
Nursing Student Loan - Spartanburg Associate	93.364	NONE	881
Columbia Nursing Faculty Loan Program	93.925	3-NFLP800066	54,426
SCHL for Disadvantaged Students - Medicine	93.925	3-T08HP09594-A0	32,667
<b>Total US Department of Health and Human Services</b>			<b>487,919</b>
<b>Total Student Financial Aid Cluster</b>			<b>248,790,721</b>

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b><u>TRIO Cluster</u></b>			
<b>US Department of Education</b>			
Passed through programs from:			
South Carolina Research Foundation			
Student Support Services	84.042	P042A050230-06	242,010
Student Support Services Program - Grant-in-Aid	84.042	P042A050234-07	10,113
Student Support Services	84.042	P042A050236-06	268,099
Student Support Services Program - Grant-in-Aid	84.042	P042A050236-06	39,184
Student Support Services	84.042	P042A050379-06	157,707
Student Support Services Program - Grant-in-Aid	84.042	P042A050579-06	34,883
Student Support Services: Opportunity Network	84.042	P042A050579-06	259,545
Student Support Services	84.042	P042A051079-06	247,355
Student Support Services Program - Grant-in-Aid	84.042	P042A051079-06	33,758
Opportunity Scholars Program	84.042	P042A051198	255,282
Opportunity Scholars Program - Grant-in-Aid	84.042	P042A051198	38,765
Student Support Services	84.042	P042A50234-07	223,857
Student Support Services Program - Grant-in-Aid	84.042	P042A050379-06	20,400
Talent Search Program	84.044	P044A070860	312,985
Upward Bound	84.047	P047A080342	479,586
Upward Bound	84.047	P047A080399	249,500
Upward Bound	84.047	P047A080811	270,254
Educational Opportunity Centers	84.066	P066A060087	418,973
Ronald E. McNair Postbaccalaureate Achievement Program	84.217	P217A070152	213,215
<b>Total US Department of Education</b>			<b>3,775,471</b>
<b>Total TRIO Cluster</b>			<b>3,775,471</b>
<b><u>Medicaid Cluster</u></b>			
<b>US Department of Health and Human Services</b>			
Passed through programs from:			
South Carolina Department of Health and Human Services			
Training and Certification for Attendant Care Services	93.778	A90675	674,965
Developmental Evaluation Center Services 07-08	93.778	C82867M	(4,872)
Outpatient Pediatric AIDS Clinic Services 08-09	93.778	C92746M	155,490
Outpatient Pediatric AIDS Clinic Services 08-09 - ARRA	93.778	C92746M	3,851
Developmental Evaluation Center Services 08-09	93.778	C92867M	1,676,097
Developmental Evaluation Center Services 08-09 - ARRA	93.778	C92867M	222,731
<b>Total US Department of Health and Human Services</b>			<b>2,728,262</b>
<b>Total Medicaid Cluster</b>			<b>2,728,262</b>
<b><u>WIA Cluster</u></b>			
<b>US Department of Labor</b>			
Passed through programs from:			
Upstate Workforce Investment Board			
Career Start Program	17.259	7Y603UU1-UWIB	23,609
ACHIEVE Program 2008-2009	17.259	8Y603C4-UWIB	303,342
Career Start Program	17.259	UWIB-08-01	120,385
South Carolina Department of Labor-Spartanburg			
ACHIEVE Program 2007-2008	17.259	7Y603C4-UWIB	33,915
<b>Total US Department of Labor</b>			<b>481,251</b>
<b>Total WIA Cluster</b>			<b>481,251</b>
<b><u>IDEA Cluster</u></b>			
<b>US Department of Education</b>			
Passed through programs from:			
South Carolina Department of Education			
Statewide Transition Project - Center for Disabilities Resources	84.027	08CO308-01	(255)
Project CREATE: Centers for the Re-Education and Advancement of Teachers in Special Education of South Carolina Years 4-6	84.027	08CO308-02	693
Project CREATE 2007-2008	84.027	08CO308-03	2,416
Technical Assistance Project for South Carolina Personnel Who Work with Preschool Children with Developmental Delays	84.027	08CO308-07	(664)
Project CREATE: Centers for the Re-Education and Advancement of Teachers in Special Education of South Carolina Years 4-6	84.027	09CO308-02	54,638
Project Create 08-09	84.027	09CO308-03	77,593
State Transition Project	84.027	09CO308-03	122,972
Assistive Technology Expo	84.027	09CO308-04	4,000
Traumatic Brain Injury	84.027	09CO308-05	4,416
Technical Assistance Project for Personnel Who Work with Preschool Children With and Without Disabilities and Who Are At Risk for or Who Have Problem Behaviors	84.027	09CO308-06	77,986
Project Speech-Language Pathologist - Recruitment and Retention Cohort A	84.027	09CO308-07	74,298
Project Speech-Language Pathologist - Recruitment and Retention in Schools Cohort B	84.027	09CO308-08	71,592
Project Speech-Language Pathologist - Recruitment and Retention in Schools Cohort C Year 2	84.027	09CO308-09	69,327
Project Speech-Language Pathologist - Recruitment and Retention in Schools (SLP-RRS) Cohort D - Year 1	84.027	09CO308-12	21,488
South Carolina School for the Deaf and the Blind			
South Carolina Interagency Deaf-Blind Project	84.027	SC SCH DEAF-BLI	9,555
<b>Total US Department of Education</b>			<b>590,055</b>
<b>Total IDEA Cluster</b>			<b>590,055</b>

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>CCDF Cluster</b>			
<b>US Department of Health and Human Services</b>			
Passed through programs from:			
South Carolina Department of Social Services			
ABC Special Needs Child Care Voucher Program Public Awareness Services	93.575	G70050T/G80050T	70,452
ABC Special Needs Child Care Voucher Program Public Awareness Services	93.575	G90050T	206,571
<b>Total US Department of Health and Human Services</b>			<b>277,023</b>
<b>Total CCDF Cluster</b>			<b>277,023</b>
<b>Other Programs</b>			
<b>US Department of Agriculture</b>			
Passed through programs from:			
South Carolina Department of Social Services			
USDA Food Service Program	10.558	CC56361	18,231
Family Daycare Homes Sponsorship 2007-08	10.558	DH64239	25,687
Family Daycare Homes Sponsorship 2008-09	10.558	DH64239	84,408
South Carolina Research Foundation			
Strategic Tourism Plan for the Salkehatchie Region	10.998	WCHEC/USDA/USCR	595
Strategic Tourism Plan for the Salkehatchie Region	10.998	WCHEC/USDA/USCR	5,287
Salkehatchie Lures Marketing Plan	10.999	WCHEC/USDA	14,661
USDA RBEF - Salkehatchie Lures Tourism and Small Business Development Program	10.999	WCHEC/USCRF	165,265
Salkehatchie Arts Year III and Renovation of Civic Center	10.999	WCHEC/USDA/USCR	34,927
<b>Total US Department of Agriculture</b>			<b>349,061</b>
<b>US Department of Commerce</b>			
CORE Support of the 2008 SC-GA Regional National Ocean Sciences Bowl Competition	11.999	CORE\NOAA	5,271
Passed through programs from:			
South Carolina Department of Health and Environmental Control			
South Carolina DHEC (OCRM) - Spring 2008 State Survey Questions	11.419	PO#723548	2,031
National Ocean Sciences Bowl			
Consortium for Ocean Leadership Support of the 2009 SC/GA Regional National Ocean Sciences Bowl	11.999	NOSB\NOAA	15,000
<b>Total US Department of Commerce</b>			<b>22,302</b>
<b>US Department of Defense</b>			
Procurement Technical Assistance Program for Business Firms (State Director's Office)	12.002	SP4800-04-20370	102,461
Procurement Technical Assistance Program for Business Firms (USC)	12.002	SP4800-04-20370	14,991
Procurement Technical Assistance Program for Business Firms (State Director's Office)	12.002	SP4800-09-20882	3,363
GA: Abigail VanDerVeer	12.999	11550FP15	2,021
NROTC Educational Instruction Calculus and Physics	12.999	N00140-06-G0053	2,675
Passed through programs from:			
South Carolina Research Foundation			
Junior Science and Humanities Symposium 2009	12.998	ACADEMY OF APPL	9,020
Junior Science and Humanities Symposium 2008	12.998	W911NF-04-10001	188
Using NHB EMS Applications to Support the BLUMED EMX Database and Executive Order 13423	12.998	W912DY-07-20043	25,412
Production of Cow Pea Mosaic Virus to Support the Research Projects at NRL	12.999	N00173-08-P1563	19,956
Expanding Assessment and Implementation of Executive Order 13423: Strengthening Federal Environmental, Energy, and Transportation Management	12.999	W912DY-07-20041	84,902
Environmental Management System Sustainability and Resource Conservation at the Naval Hospital Beaufort and its Clinics	12.999	W912DY-07-20043	14,629
<b>Total US Department of Defense</b>			<b>279,618</b>
<b>US Department of Housing and Urban Development</b>			
Passed through programs from:			
City of Columbia			
HOPWA Case Management for HIV/AIDS Clients	14.241	CITY OF COL/HUD	7,685
HOPWA/HUD Case Management Services for Columbia EMSA Residents	14.241	CITY OF COLA	349,033
Housing First Program for Homeless Persons with Disabilities	14.999	CITY OF COL/HUD	3,009
Housing First Program for Homeless Persons with Disabilities	14.999	CITY OF COLA	370,639
Columbia Housing Authority			
Proposal to Evaluate the Hendley Homes Hope VI Revitalization Project	14.999	CITY OF COL HOU	(3,260)
South Carolina Department of Health and Environmental Control			
DHEC HOPWA Career Services Program	14.241	PO#628934	45,005
South Carolina Research Foundation			
Housing Case Management for Persons with Disabilities	14.241	HEALING PROP	96,565
HOPWA/HUD Case Management Services for Homeless Persons with HIV/AIDS and Disabilities	14.241	HEALING PROPERT	1,394
USC Upstate Community Outreach Partnership Center	14.511	COPC-SC-05-654	103,847
Spartanburg Housing Authority			
SHA Hope VI Grant	14.866	CITY OF SPTG	32,677
<b>Total US Department of Housing and Urban Development</b>			<b>1,006,594</b>

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

<b>Federal grantor/pass-through grantor/program title</b>	<b>Federal CFDA number</b>	<b>Grant number</b>	<b>Expenditures</b>
<b>US Department of Interior</b>			
Passed through programs from:			
South Carolina Department of Archives and History			
Archaeology Month Poster 2008	15.999	SC DEPT ARCHIVE	4,997
South Carolina Research Foundation			
Cooperative Mid-America Integrated Seismic Network-USC	15.807	07HQAG0155	76,054
Edgewood-Stage of Southern History: A Documentary about the Pickens-Salley House - Grants Proposal to SC Heritage Corridor	15.904	25-14-02-09-3	5,972
Isotope Analyses of Benthic Foraminifera	15.999	08ERSA0699	5,344
<b>Total US Department of Interior</b>			<b>92,367</b>
<b>US Department of Justice</b>			
Passed through programs from:			
South Carolina Department of Alcohol and Other Drug Abuse Services			
Palmetto Initiative for Campus/Community Collaborations (PICCC)	16.999	USC-PICC-9	5,160
South Carolina Department of Juvenile Justice			
Juvenile Detention	16.523	SC DJJ/DOJ	30,469
DJJ Subgrant / JABG Year 2	16.999	SC DJJ	8,143
DJJ Formula Grant/Subgrant from DJJ Year 2	16.999	SCDJJ/DOJ	20,288
Community Juvenile Detention Project	16.999	SCDJJ/SCDPS	30,739
South Carolina Department of Public Safety			
Juvenile Detention Initiative	16.523	IJS06004	39,655
Effective Assistance of Counsel	16.523	IJS08001	1,814
Disproportionate Minority Contact:: Information/Resource Project	16.540	IJ06001	238
DMC Project (IJO6005)	16.540	IJ06005	19,644
DMC Project (IJO7001)	16.540	IJ07001	16,891
Formula Grant-Community Programs: Implementing the Reduction of DMC	16.540	IJ08004	77,867
Effective Assistance of Counsel	16.999	IJS07002	122,712
South Carolina Research Foundation			
University of South Carolina School of Law Veterans Rights Project	16.753	2008-DD-BX-0548	79,505
Amber Alert Training at Newsplex Third Year (2008)	16.999	1071324	41,883
USC Media Tracks for AMBER National Conference	16.999	PO#1076607	8,185
<b>Total US Department of Justice</b>			<b>503,193</b>
<b>US Department of Labor</b>			
Passed through programs from:			
Spartanburg Community College			
Engineering/Mechatronics Grant	17.999	SCC/SCDC/DOL	8,070
<b>Total US Department of Labor</b>			<b>8,070</b>
<b>US Department of Transportation</b>			
Passed through programs from:			
South Carolina Department of Public Safety			
Buckle Up South Carolina Observation Survey and Attitudinal Survey	20.999	PO#08 280402	10,328
Buckle Up South Carolina Observation Survey and Attitudinal Survey	20.999	PO#09 290424	36,801
South Carolina Department of Transportation			
I-585/East Campus Boulevard Adopt An Interchange Improvements	20.999	DOT7	176,126
<b>Total US Department of Transportation</b>			<b>223,255</b>
<b>National Aeronautics and Space Administration</b>			
Passed through programs from:			
South Carolina Space Grant Consortium			
Development of Unitized Regenerative Solid Oxide Fuel Cell Technology to Support NASA's Planetary Exploration Missions	43.999	520747	7,023
<b>Total National Aeronautics and Space Administration</b>			<b>7,023</b>
<b>National Foundation of Arts and the Humanities</b>			
Passed through programs from:			
South Carolina Research Foundation			
Secession: An International Phenomenon	45.161	RZ-50691-07	28,528
Palmetto and Pine Recruiting and Education Initiative	45.313	RO103004703	47,852
Creating the Next Generation of Teacher Scholars for Library and Information Science Education in the Area of Children, Families, and Literacy	45.313	RE02-06-0069-06	224,958
The Humanities Council			
Edgewood-Stage of Southern History: A Documentary about the Pickens-Salley House	45.999	8-1269-3	1,500
The Archaeology of the Recent African American Past	45.999	9-1275-2	700
Edgewood-Stage of Southern History: A Documentary about the Pickens-Salley House	45.999	9-1287-1	8,000
<b>Total National Foundation of Arts and the Humanities</b>			<b>311,538</b>



**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>National Science Foundation</b>			
S-STEM: Fueling the Workforce with Science Teacher Scholarships	47.076	DUE-0728665	101,018
Passed through programs from:			
South Carolina Research Foundation			
NUE: Nanoscience and Technology Advocacy Studies Cognate	47.041	EEC-0634128	47,498
Effects of Corridors and Edges On Plant Populations (Subaward)	47.074	UF07001	15,000
Graduate Teaching Fellows Enhancing STEM Education in South Carolina Schools	47.076	DGE-0440568	327,981
SC STEPS TO STEM	47.076	DUE-0653164	216,769
SC STEPS to STEM	47.076	DUE-0653164	629
SC Graduate Steps to STEM	47.076	DUE-0850208	19,919
South Carolina Sea Grant Consortium			
Proposal: Evaluation of the Center for Ocean Sciences Education Excellence Southeast 2005-2010	47.050	SC SEA GRT/C303	48,625
<b>Total National Science Foundation</b>			<b>777,439</b>
<b>Small Business Administration</b>			
SBDC 2008 - State Director's Office	59.037	8-603001Z004328	98,819
SBDC 2008 - USC	59.037	8-603001Z004328	68,203
SBDC Renewal for Current Recipient Organizations - CY 2009 - State Director's Office	59.037	9-603001Z004329	170,559
SBDC Renewal for Current Recipient Organizations - CY 2009 - USC	59.037	9-603001Z004329	247,688
<b>Total Small Business Administration</b>			<b>585,269</b>
<b>US Department of Veterans Affairs</b>			
GA: Kerri Durand	64.999	11550FP09	876
GA: Abigail Van Der Veer	64.999	11550FP10	2,697
"Leading from the Middle" Leadership Certificate Program for the Southeast Region of the Veterans Administrative Hospital Contract Year 2 (2007-2008)	64.999	V247P-2643	36,393
"Leading from the Middle" Leadership Certificate Program for the Southeast Region of the Veterans Administrative Hospital Contract Year August 2008-2009	64.999	V247P-2643	104,456
"Advanced Leadership Development Program" for the Southeast Region of the Veterans Administrative Hospital, Region of Contract Year 2 (2007-2008) (Formerly titled "Post Certificate, Defining and Refining the Cs of Leadership" Development for the Southeast	64.999	V247P-2644	39,379
"Advanced Leadership Development Program" for the Southeast Region of the Veterans Administrative Hospital Contract Year 2008-2009	64.999	V247P-2644	59,773
"Executive and Associate Leadership Program" for the Southeast Region of the Veterans Administrative Hospital Contract Year August 2008-2009	64.999	VA247-P-0582	22,833
<b>Total US Department of Veterans Affairs</b>			<b>266,407</b>
<b>Environmental Protection Agency</b>			
Passed through programs from:			
Clemson University			
Tyger River Total Maximum Daily Load (TMDL) Implementation Project	66.460	SC1047755822320	49,108
South Carolina Research Foundation			
OECD Interlaboratory Validation of a Harpacticoid Copepod Development and Reproduction Test using Amphiascus Tenuiremis	66.999	EP-W-08-035	143,989
<b>Total Environmental Protection Agency</b>			<b>193,097</b>
<b>US Department of Energy</b>			
Operate & Maintain the Public Reading Room	81.039	DEFC0990SR18117	(23,020)
Passed through programs from:			
South Carolina Department of Education			
Proposal To Provide Professional Development Related to PITC Modules I and II	81.999	PO#R24390	3,819
South Carolina Energy Office			
USC Ethanol Infrastructure Installation	81.999	25004	6,653
South Carolina Research Foundation			
Proposal for Continuation of Contract for DOE-SR Public Reading Room at the University of South Carolina Aiken	81.049	DEFG0908SR22632	73,347
South Carolina Universities Research and Education Foundation			
Visualization and Mapping Metal Distributions Within Kineococcus Radiotolerans Cells	81.999	WEST143	3,700
<b>Total US Department of Energy</b>			<b>64,499</b>
<b>US Department of Education</b>			
South Carolina Assistive Technology Program	84.224	H224A070040	509
South Carolina Assistive Technology Program	84.224	H224A080040	399,585
South Carolina Assistive Technology Program	84.224	H224A090040	206,250
Preparation of Leadership Personnel	84.325	H325D010063	35,923
Passed through programs from:			
South Carolina Research Foundation			
Long Term Training: Vocational Rehabilitation	84.129	H129B050037	92,884
Long Term Training Grant in Job Development and Placement	84.129	H129R050005	97,556
Recruiting Talented Minority Students into Physics and Astronomy	84.200	P200A030028	2,868
Recruiting Talented Minority Students and Women into Geological Sciences	84.200	P200A040161	4,333
Preparation of Leadership Personnel: Project PALEEIS	84.325	H325D080025	128,714
Preparation of Early childhood Special Education (ECSE) Personnel in South Carolina	84.325	H325K060123	73,673

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Department of Education, continued</b>			
South Carolina Research Foundation, continued			
Preparing Personnel to Fill Speech Pathology Vacancies in South Carolina: A Partnership with School Districts	84.325	H325K060410	153,971
Preparing Highly Qualified Personnel to Serve Children with Visual Impairment (Combined Personnel Preparation 84.25K)	84.325	H325K080238-08	88,299
Preparing Personnel to Fill Speech Pathology Vacancies in South Carolina: A Mentoring and Partnership Program			
With School Districts	84.325	H325K080303	186,948
Preparing School Counselors as Related Service Providers for Children and Youth Disabilities	84.325	H325K080321	182,943
Child Care Access Means Parents in School (CCAMPIS) Program Grant	84.335	P335A050104-07	1,932
Child Care Access Means Parents in School (CCAMPIS) Program Grant	84.335	P335A050104-08	32,665
Diverse Pathways in Teacher Preparation: A Collaborative Approach for South Carolina 2- and 4-Year Colleges	84.336	P336B040014-06	1,194,413
Diverse Pathways in Teacher Preparation: A Collaborative Approach for South Carolina 2-and 4- Year Colleges-Subaccount	84.336	P336B040014-06	107,482
Spartanburg Scholars Academy	84.361	U361A070037	572,797
National Writing Project Potential Site Funding Application	84.928	07-SC12	43,000
Winthrop Autism Training Subcontract Project	84.999	WINTHROP UNIVER	14,771
South Carolina Department of Education			
South Carolina Reading First 2007-2008	84.357	08RC308	76
Datawarehouse Project	84.357	09RC308-01	31,404
Mathematics and Science Partnership 08MS308-01	84.366	08-MS-308-01	25
Mathematics Science Partnership Initiative	84.366	08MS308-02	4,368
Mathematics and Science Partnership-Travel	84.366	09MS308-01	7,453
Project CREATE: Distance MAT Program	84.367	09TQ308-01	3,442
Evaluation of the TRIAAD Project	84.373	08CJ308-01	15,280
Evaluation of the TRIAAD Project	84.373	09-CJ-308-01	81,259
South Carolina Reading First (SCRF) Data Warehouse	84.999	SC DEPT EDU	55,673
Proposal for Evaluation of the OASIS Project	84.999	SC DEPT EDU	94,371
South Carolina Commission on Higher Education			
Science and Math Professional Development Program	84.281	SCCHE	4,513
High School Teacher Inquiry and Technology Professional Development	84.367	2009-10	260
Supplemental Funding for Distance Education for Developing Highly Qualified Middle School Mathematics Teachers	84.367	FY2009-10	1
On-TRACK:Teaching Reading and Content Knowledge	84.367	SC CHE	4,291
Creating an Early Childhood Nature-Based Inquiry Model	84.367	SC CHE	45,606
Improving Teacher Quality Higher Education Grant Program Year 3	84.367	SC CHE	104,238
Developing High Quality Middle School Mathematics Teacher, Year 4	84.367	SC CHE	926
On-Track: Teaching Reading and Content Knowledge Year 2	84.367	SC CHE/USDE	119,380
On-Track: Teaching Reading and Content Knowledge Year 3	84.367	SC CHE/USDE	6,171
Distance Education for Developing Highly Qualified Middle School Mathematics Teachers	84.367	SC CHE/USDE	70,041
South Carolina Department of Health and Environmental Control			
Training in Early Childhood Solutions	84.181	PO#733441	468,885
Training in Early Childhood Solutions	84.181	PO#699050	655
Allendale County Schools			
A-F Middle School Youth Summer Program	84.999	USDE	14,183
Lexington County School District Five			
Reading, Writing and Reasoning in American History Project	84.215	LEX CTY SCH 5	75,584
Reading, Writing and Reasoning in American History Project	84.215	LEX CTY SCH 5	37,960
Challenging Horizons 21st Century Community Learning Center Program at Leaphart Elementary School	84.999	SCHOOL DIS 5	41,493
Marion School District Two			
Teacher Classroom Assessment Workshops for a Summer Arts Enrichment Program	84.999	MARION SCH D 2	3,242
National Writing Project Corporation			
National Writing Project	84.928	92-SC05	42,614
National Writing Project	84.928	92-SC06	39,917
National Writing Project	84.928	92-SC07	54,414
Office of Research & Development Lancaster School District			
GEAR UP	84.999	LANCASTER SCHO	85,785
Richland School District 1			
The Vertical Immersion Project (VIP)	84.215	01178263-03	12,513
Proposal for Evaluation of the Richland School District 1 Teaching American History Vertical Immersion Project (2007-2010)	84.999	PO# 01178263-00	68,193
Richland School District Two			
Project Evaluation: Implementation of a Rigorous Evaluation to Assess the Effectiveness of ImPACT	84.999	PO#702451	328
Project Evaluation: Implementation of a Rigorous Evaluation to Assess the Effectiveness of ImPACT	84.999	PO#702451	(2)
<b>Total US Department of Education</b>			<b>5,216,058</b>
<b>US Department of Health and Human Services</b>			
Traineeships for Nurse Anesthetists	93.124	3-A22HP00015-H0	27,798
Columbia Nursing Faculty Loan Program	93.264	3-NFLP800066	73,510
Public Health Traineeship FY 2009	93.964	3-A03HP01181-A0	36,709
Palmetto State Geriatric Education Center	93.969	3-D31HP08807-A0	13,095
Palmetto State Geriatric Education Center	93.969	3-D31HP08807-A0	13,894
Palmetto State Geriatric Education Center	93.969	3-D31HP08807-A0	88,392
Palmetto State Geriatric Education Center	93.969	3-D31HP08807-A0	334,947
Passed through programs from:			
Association of University Centers on Disabilities			
Consortium on Postsecondary Education for Students with Intellectual Developmental Disabilities	93.998	5360-890	11,341

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Department of Health and Human Services, continued</b>			
CFO Greenville Hospital System			
Medical Education/Medicaid Enhanced Teaching	93.998	GREENVILLE HOSP	389,054
Lieutenant Governor's Office			
Development and Implementation of a Person-Centered Hospital Discharge Planning Model	93.998	LT GOVERNOR'S O	17,071
South Carolina Court Administration			
Court Improvement Training Grant	93.586	2006-G991513	(343)
Court Improvement Training Grant	93.586	2007G991513	129,075
Court Improvement Training Grant	93.586	SC COURT ADM	17,475
South Carolina Department of Health and Environmental Control			
SC DHEC Bioterrorism Project	93.069	DC08071/727054	208,602
Supervision in the Development, Implementation and Maintenance of a PHIN Compliant NBS-CHESS System	93.069	PO#722956	65,683
Interactive Web-Based Learning Modules	93.110	PO#737837	10,842
Contract for the Purchase and Provision of Services to Facilitate the SC TB Photovoice Project	93.116	PO#743454	36,973
SC DHEC Division of STD/HIV 07-08	93.153	HV-8-551	9,403
Ryan White Part D (formerly Title IV): Coordinated HIV Services and Access to Research for Women, Infants, Children, Youth, and Their Families (CSWICY)	93.153	HV-8-552	30,001
SC DHEC Div of STD/HIV 08-09	93.153	HV-9-266	118,614
Ryan White Part D (formerly Title IV): Coordinated HIV Services and Access to Research for Women, Infants, Children, Youth, and Their Families (CSWICY)	93.153	HV-9-339	112,074
DHEC Immunization Supplemental Grant 2008	93.268	PO#764133	21,847
SCDHEC-COP Bioterrorism Project	93.283	DC08072/727825	35,848
Support for Environmental Epidemiology Faculty	93.283	PO#507586	42,580
Contract Between South Carolina Department of Health and Environmental Control Bureau of Maternal and Child Health and the University of South Carolina. Contract No. MC-09-009	93.283	PO#751419	23,667
The Hospital Preparedness Program (HPP)	93.889	PO#720514	55,312
Ryan White HIV/AIDS Treatment Modernization Act - Part B (SC ADAP Insurance)	93.917	4400000514	29,194
Ryan White HIV/AIDS Treatment Modernization Act - Part B (Base)	93.917	PO#518789/SDHEC	2,785,777
Ryan White HIV/AIDS Treatment Modernization Act - Part B (Emerging Communities)	93.917	PO#518789/SDHEC	272,970
Ryan White HIV/AIDS Treatment Modernization Act - Part B (ADAP Insurance)	93.917	PO#518789/SDHEC	126,765
Minority AIDS Initiative (MAI) - Programs Increasing Access to Ryan White Medications for Racial and Ethnic Minorities: Prison Linkage Program and Sumter Health Promoters Program	93.917	PO#709841	54,210
Ryan White HIV/AIDS Treatment Modernization Act - Part B (Base funds)	93.917	PO#762727	824,747
Ryan White HIV/AIDS Treatment Modernization Act - Part B (Emerging Communities)	93.917	PO#762727	91,345
Ryan White HIV/AIDS Treatment Modernization Act - Part B (Supportive Housing Services)	93.917	SC DHEC/HRSA	10,386
Perinatal HIV Prevention Services	93.940	PO#562928	52,260
Perinatal HIV Prevention Case Management	93.940	PO#562928	43,949
Minority AIDS Initiative - Programs Increasing Access to Ryan White Medications for Racial and Ethnic Minorities: Prison Linkage Program and Sumter Health Promoters Program	93.998	PO#709841	22,117
South Carolina Department of Health and Human Services			
DHHS/SCAMRS Administrative Contract	93.998	A91593A	65,842
South Carolina Department of Mental Health			
CCFS Interpreter Qualification Project with SC Department of Mental Health	93.243	4500057013	27,012
Statistical Analysis for SC Department of Mental Health--Education, Training and Research	93.243	J12F078	5,709
South Carolina Department of Social Services			
Purchase of Social Work Training for DSS Staff and Agents	93.608	C70001S	(3,412)
Purchase of Social Work Training for DSS Staff and Agents	93.608	C80001S	2,397,761
Purchase of Social Work Training for DSS Staff and Agents	93.608	C80001S	1,575,657
DSS Legal Training Contract	93.643	C70035S	(772)
Children's Justice Act - Operation of the Children's Law Center	93.643	C80002S-33	129,123
Children's Justice Act - Support of S.C. CJA Task Force	93.643	C80030S-1	36,749
Legal Training for DSS Staff and Agents	93.643	C80035S-2	792,859
Operation of the Children's Law Center	93.643	C90002S-5	51,338
Support of Children's Justice Act Task Force	93.643	C90030S-2	23,880
Legal Training for DSS Staff and Agents	93.643	C90035S-3	242,954
Training and Special Events to Improve the Quality of Child Care for South Carolina Families	93.998	C80003H	1,360
Improve the Quality of Childcare for South Carolina Families Extension Number Three/Amendment Number Four	93.998	C80069H-4	108,187
South Carolina Program for Infant/Toddler Care - Infant-Toddler Specialist Network (2008-09)	93.998	C90002H-1	138,060
Training and Special Events to Improve the Quality of Child Care for South Carolina Families - 2008-2009	93.998	C90003H-2	106,376
Conducting a Statewide Child Care Market Rate Survey, Collecting and Analyzing Survey Data	93.998	C90018H	26,056
Improve the Quality of Child Care for South Carolina Families	93.998	C90069H	61,713
South Carolina Program for Infant/Toddler Care - Infant-Toddler Specialist Network	93.998	SC DSS/HHS	3,881
South Carolina Developmental Disabilities Council			
Healthy Weight Management in 2008 for Children with Down Syndrome: An Approach Integrating the Steps to Your Health Curriculum	93.630	8-21-0010	5,000
Career Programs for Students with Disabilities	93.630	8-21-0016	7,562
Screening for Childhood Developmental Milestones in Family Medicine	93.630	8-21-0030	36,481
South Carolina Research Foundation			
South Carolina HIV/AIDS Clinical Training Center	93.145	5-23202	248
South Carolina HIV/AIDS Clinical Training Center	93.145	5-23204	211,672
SC Disability and Health Project	93.184	1U59DD000268-01	(9,007)
SC Disability and Health Project	93.184	5U59DD000268-02	245,580
SC Disability and Health Project	93.184	5U59DD000268-03	62,243

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**  
**JUNE 30, 2009**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant number	Expenditures
<b>US Department of Health and Human Services, continued</b>			
South Carolina Research Foundation, continued			
Chronic Care Quality Improvement Learning Laboratory (CQUILL)	93.226	1K02HS017013-01	99,033
Service Agreement Between Sheri Few of South Carolina Parents Involved in Education and Dr. James Hussey	93.235	07-S7479-A13451	2,027
Targeting Mass Media Interventions for Risky Sexual Behavior	93.242	304696530006219	41,526
Campus Suicide Prevention Grant - Continuation Application	93.243	1H79SM057874-02	18,162
USC Campus Suicide Prevention Grant, Continuation Application	93.243	5H79SM057874-03	47,297
South Carolina Poison Center Stabilization Project	93.253	H4BHS00079-0700	34,312
South Carolina Poison Center Stabilization Project	93.253	H4BHS00079-0800	315,951
Graduate Education in Industrial Hygiene	93.262	5T01OH008620.03	399
Graduate Education in Industrial Hygiene	93.262	5T01OH008620-04	55,268
Centers for Public Health Preparedness (CPHP) 04209CONT (BP4)	93.283	5U90TP424245-04	121,474
Centers for Public Health Preparedness (CPHP) 0420905CONT08	93.283	5U90TP424245-05	509,740
Advanced Education Nursing Traineeship (AENT) Program 2008	93.358	2A10HP00135-09	30,976
Advanced Education Nursing Traineeship (AENT) Program 2008	93.358	2A10HP00135-09	10,320
Expanded Primary Care Services to an Urban Area - Competing Continuation	93.359	3-D11HP00503-06	1,841
Expanded Primary Care Services to an Urban Area	93.359	5D11HP00503-07	285,121
Science Laboratory	93.389	8-R5RR018542	36,037
Addressing Parental Smoking by Changing Pediatric Office Systems	93.393	206601	7,370
South Carolina University Center for Excellence in Developmental Disabilities	93.632	90DD0607/01	720
South Carolina University Center for Excellence in Developmental Disabilities	93.632	90DD0607/02	519,949
Biomedical-Behavioral Interface: Prevention and Developmental Sciences Training	93.859	1T32GM081740-01	113,171
University of South Carolina Marlboro County Minority Youth Empowerment Demonstration Program	93.910	1YEPMP060001-01	270,960
Salkehatchie Collaborative-NEEDS	93.912	C04RH07905	75,685
StrokeMobile: Mobile Prevention Program for Stroke in South Carolina	93.998	CARESOUTH CAROL	31,768
Creation and Implementation of a Client-Level Database for Pee Dee Healthy Start	93.998	PEE DEE HEALTHY	1,192
Medicare Rural Hospital Flexibility (FLEX) Grant	93.998	SCORH	5,047
Subcontract to implement "Flex Critical Access Hospital Health Information Technology Network Grant (CAH-HIT)"	93.998	SCORH/ORHP/HRSA	18,690
Type 1 Diabetes Genetics Consortium	93.999	BENAROYS RESEAR	916
University of Maryland			
Linking South Carolina Free Clinics to Quality Health Information	93.998	SR00000490	24,471
Creating the InfoAble Portal	93.998	SR00000491	986
University of North Carolina Institute of Public Health			
Southeast Public Health Training Center (SPHTC)	93.964	SPHTC	8,828
Southeast Public Health Training Center Contract	93.964	SPHTC/HRSA	25,000
Southeast Public Health Training Center Contract	93.964	SPHTC/HRSA	6,137
<b>Total US Department of Health and Human Services</b>			<b>15,307,670</b>
<b>Corporation for National and Community Service</b>			
Passed through programs from:			
United Way Association			
Americorp Contract	94.999	UWASC	3,000
<b>Total Corporation for National and Community Service</b>			<b>3,000</b>
<b>Social Security Administration</b>			
Passed through programs from:			
South Carolina Research Foundation			
Communications Training Course	96.999	B22760	71,075
<b>Total Social Security Administration</b>			<b>71,075</b>
<b>Homeland Security</b>			
Passed through programs from:			
Office of Adjutant General			
SC Emergency Management Division Partial Funding for Interoperable Communications	97.042	PO#2148	18,807
<b>Total Homeland Security</b>			<b>18,807</b>
<b>Total Federal Expenditures</b>			<b>\$ 362,206,457</b>

**UNIVERSITY OF SOUTH CAROLINA**  
**NOTES TO SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**

**NOTE 1 - BASIS OF PRESENTATION**

The accompanying schedule of expenditures of federal awards (the schedule), includes the federal grant activity of the University of South Carolina (the University), and is presented on the accrual basis of accounting. The information in the schedule is presented in accordance with the requirements of Office of Management and Budget (OMB) Circular A-133, *Audits of States, Local Governments, and Non-Profit Organizations*. Therefore, some amounts presented in the schedule may differ from amounts presented in, or used in, the preparation of the basic financial statements.

**NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES FOR  
FEDERAL AWARD EXPENDITURES**

Expenditures for student financial aid programs include the federal share of students' Federal Supplemental Educational Opportunity Grant (FSEOG) program grants and Federal Work Study (FWS) program earnings, certain other federal financial aid for students and administrative cost allowances, where applicable.

Expenditures for federal research and development programs are determined using the cost accounting principles and procedures set forth in OMB Circular A-21, *Cost Principles for Educational Institutions*. Under these cost principles, certain expenditures are not allowable or are limited as to reimbursement.

Expenditures for nonfinancial aid awards include indirect costs, related primarily to facilities operation and maintenance and general, divisional and departmental administrative services, which are allocated to direct cost objectives (including federal awards) based on negotiated formulas commonly referred to as facilities and administrative cost rates. Facilities and administrative costs allocated to such awards for the year ended June 30, 2009, were based on predetermined fixed rates negotiated with the University's cognizant federal agencies.

**NOTE 3 - FEDERAL PERKINS LOAN PROGRAM (CFDA NUMBER 84.038)**

The Federal Perkins Loan Program is administered directly by the University and balances and transactions relating to the program are included in the University's financial statements. The balance of loans outstanding under the Federal Perkins Loan program was \$17,390,708 as of June 30, 2009.

**NOTE 4 - MATCHING**

Under the FWS program, the University matched \$460,930 in total compensation for the year ended June 30, 2009, in addition to the federal share of expenditures in the accompanying schedule of expenditures of federal awards.

Under the FSEOG program, the University matched \$439,215 in funds awarded to students for the year ended June 30, 2009, in addition to the federal share of expenditures in the accompanying schedule of expenditures of federal awards.

**NOTE 5 - SUBRECIPIENTS**

Of the federal expenditures presented in the schedule, the University provided federal awards to subrecipients as follows for the year ended June 30, 2009:

<u>Federal granting agency</u>	<u>Federal CFDA number</u>	<u>Amount provided to subrecipients</u>
U.S. Department of Commerce	11.RD	\$ 94,137
Total U.S. Department of Commerce		<u>94,137</u>
U.S. Department of Defense	12.RD	<u>1,453,779</u>
Total U.S. Department of Defense		<u>1,453,779</u>
U.S. Department of Justice	16.RD	125,038
	16.999	<u>37,000</u>
Total U.S. Department of Justice		<u>162,038</u>
U.S. Department of Transportation	20.RD	<u>99,215</u>
Total Department of Transportation		<u>99,215</u>
National Aeronautics and Space Administration	43.RD	<u>57,051</u>
Total National Aeronautics and Space Administration		<u>57,051</u>
National Science Foundation	47.RD	<u>315,654</u>
Total National Science Foundation		<u>315,654</u>
Environmental Protection Agency	66.RD	<u>3,353</u>
Total Environmental Protection Agency		<u>3,353</u>
U.S. Department of Energy	81.RD	<u>120,899</u>
Total U.S. Department of Energy		<u>120,899</u>
U.S. Department of Health and Human Services	93.RD	2,949,172
	93.608	351,229
	93.778	796,714
	93.910	102,473
	93.917	1,031,856
	93.969	144,368
	93.998	<u>55,079</u>
Total U.S. Department of Health and Human Services		<u>5,430,891</u>
U.S. Department of Education	84.336	<u>627,147</u>
Total U.S. Department of Education		<u>627,147</u>
U.S. Department of Housing and Urban Development	14.999	<u>131,186</u>
Total U.S. Department of Housing and Urban Development		<u>131,186</u>
Grand total		<u><u>\$ 8,495,350</u></u>

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

The Board of Trustees  
University of South Carolina  
Columbia, South Carolina

We have audited the financial statements of the business-type activities and the discretely presented component unit of the University of South Carolina (the University) a department of the State of South, as of and for the year ended June 30, 2009, which collectively comprise the University's basic financial statements, and have issued our report thereon dated October 14, 2009. Other auditors audited the financial statements of the University of South Carolina School of Medicine Educational Trust and Clinical Faculty Practice Plan (the Trust); University of South Carolina Research Foundation; the University of South Carolina Educational Foundation; the University of South Carolina Business Partnership Foundation; the Greater University of South Carolina Alumni Association; the Carolina Piedmont Foundation; and the Educational Foundation of the University of South Carolina - Lancaster, (collectively referred to as Foundations), as described in our report on the University's financial statements. The financial statements of the Trust and the Foundations were not audited in accordance with *Government Auditing Standards*. Except as discussed in the preceding sentence, we conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States.

Internal Control Over Financial Reporting

In planning and performing our audit, we considered the University's internal control over financial reporting as a basis for designing our auditing procedures 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 over financial reporting. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over financial reporting.

A control deficiency 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 misstatements on a timely basis. A significant deficiency is a control deficiency, or combination of control deficiencies, that adversely affects the entity's ability to initiate, authorize, record, process, or report financial data reliably in accordance with generally accepted accounting principles such that there is more than a remote likelihood that a misstatement of the entity's financial statements that is more than inconsequential will not be prevented or detected by the entity's internal control.

A material weakness is a significant deficiency, or combination of significant deficiencies, that results in more than a remote likelihood that a material misstatement of the financial statements will not be prevented or detected by the entity's internal control.

Our consideration of internal control over financial reporting was for the limited purpose described in the first paragraph of this section and would not necessarily identify all deficiencies in internal control that might be significant deficiencies or material weaknesses. We did not identify any deficiencies in internal control over financial reporting that we consider to be material weaknesses, as defined above.

#### Compliance and Other Matters

As part of obtaining reasonable assurance about whether the University's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements, noncompliance with which could have a direct and material effect on the determination of 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*.

This report is intended solely for the information and use of management, the Board of Trustees, the Office of the State Auditor of South Carolina and federal granting agencies and is not intended to be and should not be used by anyone other than those specified parties.

*Elliott Davis, LLC*

Columbia, South Carolina  
October 14, 2009



REPORT ON COMPLIANCE WITH REQUIREMENTS APPLICABLE  
TO EACH MAJOR PROGRAM AND INTERNAL CONTROL OVER  
COMPLIANCE IN ACCORDANCE WITH OMB CIRCULAR A-133  
AND ON THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS

The Board of Trustees  
University of South Carolina  
Columbia, South Carolina

Compliance

We have audited the compliance of the University of South Carolina (the University) with the types of compliance requirements described in the U.S. Office of Management and Budget (OMB) Circular A-133, *Compliance Supplement* that are applicable to each of its major federal programs for the year ended June 30, 2009. The University's major federal programs are identified in the summary of auditors' results section of the accompanying Schedule of Findings. Compliance with the requirements of laws, regulations, contracts and grants applicable to each of its major federal programs is the responsibility of the University's management. Our responsibility is to express an opinion on the University's compliance based on our audit.

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. Our audit does not provide a legal determination on the University's compliance with those requirements.

In our opinion, the University complied, in all material respects, with the requirements referred to above that are applicable to each of its major federal programs for the year ended June 30, 2009.

Internal Control Over Compliance

The management of the University is responsible for establishing and maintaining effective internal control over compliance with requirements of laws, regulations, contracts and grants applicable to federal programs. In planning and performing our audit, we considered the University's internal control over compliance with requirements that could have a direct and material effect on a major federal program in order to determine our auditing procedures for the purpose of expressing our opinion on compliance but, not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over compliance.

A *control deficiency* in an entity's internal control over compliance 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 noncompliance with a type of compliance requirement of a federal program on a timely basis. A *significant deficiency* is a control deficiency, or combination of control deficiencies, that adversely affects the entity's ability to administer a federal program such that there is more than a remote likelihood that noncompliance with a type of compliance requirement of a federal program that is more than inconsequential will not be prevented or detected by the entity's internal control.

A material weakness is a significant deficiency, or combination of significant deficiencies, that results in more than a remote likelihood that material noncompliance with a type of compliance requirement of a federal program will not be prevented or detected by any entity's internal control.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and would not necessarily identify all deficiencies in internal control that might be significant deficiencies or material weaknesses. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses, as defined above.

#### Schedule of Expenditures of Federal Awards

We have audited the basic financial statements of the business-type activities and the discretely presented component of the University of South Carolina a department of the State of South Carolina as of and for the year ended June 30, 2009, and have issued our report thereon dated October 14, 2009 which included a reference to the reports of other auditors. Our audit was performed for the purpose of forming an opinion on the basic financial statements taken as a whole. 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 has been subjected to the auditing procedures applied in the audit of the basic financial statements and, in our opinion, is fairly stated, in all material respects, in relation to the basic financial statements taken as a whole.

This report is intended solely for the information and use of management, the Board of Trustees, the Office of the State Auditor of South Carolina, and federal granting agencies and is not intended to be and should not be used by anyone other than those specified parties.

*Elliott Davis, LLC*

Columbia, South Carolina  
October 14, 2009

**THE UNIVERSITY OF SOUTH CAROLINA**  
**SCHEDULE OF FINDINGS**  
*For the year ended June 30, 2009*

**I. Summary of Auditors' Results**

**Financial Statements**

- |   |             |
|---|-------------|
| (a.) Type of auditors' report:  | Unqualified |
| (b.) Internal control over financial reporting:   |             |
| 1) Material weaknesses identified:  | None noted  |
| 2) Significant deficiencies identified that are not considered to be material weaknesses: | None noted  |
| (c.) Noncompliance material to financial statements noted:                                | None noted  |

**Federal Awards**

- |   |             |
|---|-------------|
| (a.) Internal control over major programs:  |             |
| 1) Material weaknesses identified:  | None noted  |
| 2) Significant deficiencies identified that are not considered to be material weaknesses:                 | None noted  |
| (b.) Type of auditors' report issued on compliance for major programs:                                    | Unqualified |
| (c.) Audit findings that are required to be reported in accordance with Section 510(a) of Circular A-133: | None noted  |
| (d.) Identification of major program:   |             |

<u>CFDA Numbers</u>	<u>Name of federal program or cluster</u>
84.007; 84.032; 84.033; 89.038; 84.063; 84.375; 84.376; 84.379; 93.342; 93.364; 93.925	Student Financial Aid Cluster

- |   |             |
|---|-------------|
| (e.) Dollar threshold used to distinguish between type A and type B Programs: | \$3,000,000 |
| (f.) Auditee qualified as low risk auditee?                                   | Yes         |

**II. Findings Relating to the Basic Financial Statements Reported in Accordance with *Government Auditing Standards*:**

None noted

**III. Findings and Questioned Costs Relating to Federal Awards:**

None noted