KENT STATE UNIVERSITY Research and Sponsored Programs Paul DiCorleto, Vice President for Research

EXTRAMURAL FUNDING REPORT

Funds awarded for	Total funding to date
July- September 2020	FY2020 - 2021
\$15,737,421	\$15,737,421

Research

Sanjaya Abeysirigunawardena, Chemistry National Institute of General Medical Sciences Investigation of the key structural and sequence features essential for m6A recognition during post-transcriptional regulation of gene expression		09/15/20 - 08/31/23	\$454,624
Christine Bahlai, Biological Sciences Rebecca Catto, Sociology Bridget Mulvey, Teaching, Learning and Curriculum Studies Mozilla Foundation How do you know? A podcast exploring the numbers behind our beliefs, and everything in between		09/01/20 - 12/31/20	\$12,000
Sara Bayramzadeh, Architecture and Environmental Design Mary Anthony, Nursing Douglas Delahanty, Psychology Agency for Healthcare Research and Quality <i>Towards a Model of Safety and Care for Trauma Room Design</i>	Continuation	09/30/20 - 09/29/21	\$617,490
Yossef Ben-Porath, Psychology University of Minnesota Further Development of the MMPI-3		07/01/20 - 06/30/21	\$127,847
Christopher Blackwood, Biological Sciences Margarita Benitez, Fashion Design and Merchandising Subaward University of Akron /National Science Foundation <i>Type II: The University of Akron I-Corps Site: BioBlack</i>		10/04/19 - 02/28/21	\$2,500
Philip Bos, Advanced Materials Liquid Crystal Institute/Physics Facebook Technologies, LLC Liquid Crystal Based Polarization Volume Holograms		07/01/20 - 01/01/22	\$188,000
Philip Bos, Advanced Materials Liquid Crystal Institute/Physics Facebook Technologies, LLC Gradient Index Liquid Crystal (GRIN LC) Lens: Discrete Electrode Design		07/01/20 - 03/31/21	\$100,000
Megan Brown, Biological Sciences Ohio Biological Survey Inc. Maternal Effects and Allelopathy: Does mother "know" best?		01/01/20 - 08/31/21	\$500

Kathleen Campana, Library and Information Science William Penn Foundation <i>Read Baby Read</i>		01/01/21 - 08/31/23	\$275,754
L.C. Chien, Advanced Materials Liquid Crystal Institute/Chemical Physics Industry Partner Smart Liquid Crystal Windows Stage II		07/01/20 - 06/30/21	\$90,000
Robert Clements, Biological Sciences Jun Li, Mathematics Cheng-Chang Lu, Computer Science National Institute of General Medical Sciences <i>Automating Biomedical Data Analysis</i>		09/21/20 - 08/31/23	\$446,115
Karin Coifman, Psychology Douglas Delahanty, Psychology John Gunstad, Psychology National Institute of Mental Health Administrative Supplement: Unpacking Emotion Inflexibility and Prospective Prediction of Affective Disease		08/05/20 - 12/31/20	\$139,969
 Windy Cole, College of Podiatric Medicine Stacy Coe, College of Podiatric Medicine Abe Osbourne, College of Podiatric Medicine Zymo Research Corp. <i>Comparing the Composition of Cutaneous Microbiota on the Plantar Surface of the Diabetic and Non-diabetic Foot</i> 		07/07/20 - 07/06/21	\$6,113
Windy Cole, College of Podiatric Medicine Abe Osbourne, College of Podiatric Medicine SerenaGroup Inc. <i>LifeCuff DFU Trial</i>		06/05/20 - 06/05/21	\$221,685
Windy Cole, College of Podiatric Medicine Abe Osbourne, College of Podiatric Medicine SerenaGroup Inc. <i>HITIDE Diabetic Foot Ulcer Clinical Trial</i>		09/18/20 - 09/17/21	\$179,040
David Costello, Biological Sciences National Science Foundation CAREER: Beyond N and P: How trace metal limitation influences stream ecosystem function		09/01/20 - 08/31/25	\$650,711
Barry Dunietz, Chemistry U.S. Department of Energy Post-Marcus Theory and Simulation of Interfacial Charge Transfer Dynamics in Organic Semiconducting Materials	Continuation	09/15/18 - 09/14/21	\$378,082
John Dunlosky, Psychology Bradley Morris, Lifespan Development and Educational Sciences Clarissa Thompson, Psychology National Science Foundation Numerical Understanding Mentored By Expert Researchers (NUMBERs) workshop		11/01/20 - 10/31/21	\$48,937

Yanhai Du, College of Aeronautics and Engineering Subcontract Precision Combustion Inc. /U.S. Department of Energy Advanced Solid Oxide Fuel Cell Components Enabled through Additive Manufacturing		06/29/20 - 03/28/21	\$82,500
Maxim Dzero, Physics National Science Foundation Electronic Correlations and Disorder in Berry materials		08/01/20 - 07/31/23	\$215,465
Jeffrey Hallam, Social and Behavioral Sciences Cleveland Clinic Foundation Student Co-op Experience - Elena Blaginykh	Continuation	08/16/20 - 08/15/21	\$25,800
Dana Hansen, Nursing Tracey Motter, Nursing Josiah Macy Jr Foundation Catalyzing Relationships at the End of Life Program		08/01/20 - 07/31/21	\$35,000
Torsten Hegmann, Advanced Materials Liquid Crystals Institute Antal Jakli, Advanced Materials Liquid Crystal Institute/Physics Samuel Sprunt, Physics National Science Foundation <i>MRI: Acquisition of an ultrasmall-, small- and wide-angle x-ray scattering</i> <i>instrument for multidisciplinary advanced materials and soft matter research and</i> <i>education</i>		07/15/20 - 06/30/23	\$611,260
Torsten Hegmann, Advanced Materials Liquid Crystals Institute Antal Jakli, Advanced Materials Liquid Crystal Institute/Physics Samuel Sprunt, Physics Ohio Department of Higher Education <i>MRI: Acquisition of an ultrasmall-, small- and wide-angle x-ray scattering</i> <i>instrument for multidisciplinary advanced materials and soft matter research and</i> <i>education</i>		07/15/20 - 06/30/23	\$130,984
Torsten Hegmann, Advanced Materials Liquid Crystals Institute Subaward Case Western Reserve University /National Aeronautics and Space Administration <i>Microgravity Studies of Nanoparticles and Topological Defects in Liquid Crystal</i> <i>Thin Films</i>	Additional	12/02/16 - 12/01/21	\$6,000
Joel Hughes, Psychology Gregory Gibson, Sociology Anthony Vander Horst, Sociology Christopher Woolverton, Biostatistics/Epidemiology/Environmental Health Cleveland Brain Health Initiative Risk and protective factors for lasting mental health impact of the COVID-19 pandemic		07/15/20 - 06/30/21	\$10,000
Julia Huyck, Health Sciences National Institute on Deafness and Other Communication Disorders Processes underlying immature auditory perception during adolescence		09/01/20 - 08/31/23	\$436,290
Julia Huyck, Health Sciences Akron Children's Hospital Factors affecting long-term speech and hearing outcomes for children with chronic middle ear infections		09/01/19 - 08/31/20	\$14,992

Adam Jajtner, Health Sciences Eliott Arroyo Delgado, Health Sciences National Strength and Conditioning Association Effects of Vitamin D Supplementation on Performance Recovery Following Resistance Exercise		07/01/20 - 06/30/21	\$15,000
Ruoming Jin, Computer Science Deric Kenne, Health Policy Management National Science Foundation EAGER: Collaborative Research: Understanding Human Behaviors and Mental Health using Federated Machine Learning on Smart Phones		09/01/20 - 02/28/22	\$75,000
Deric Kenne, Health Policy Management Subaward Early Childhood Resource Center /Sisters of Charity Foundation of Canton SPARK Evaluation 2021		07/01/20 - 06/30/21	\$50,000
Deric Kenne, Health Policy Management Ruoming Jin, Computer Science Substance Abuse and Mental Health Services Administration Northeast Ohio Tri-County Prevention Infrastructure (TCPI)	Continuation	09/30/20 - 09/29/21	\$300,000
Deric Kenne, Health Policy Management Subaward Early Childhood Resource Center /Sisters of Charity Foundation of Canton 2020-2021 AY SPARK Contract Deliverables (2020 Cohort) - Supplement	Supplement	07/01/20 - 06/30/21	\$7,500
Oleg Lavrentovich, Advanced Materials Liquid Crystal Institute/Physics Sergij Shiyanovskii, Advanced Materials Liquid Crystals Institute U.S. Department of Energy Command of active and responsive elastomers by topological defects and patterns	Supplement	08/01/20 - 07/31/21	\$55,285
Oleg Lavrentovich, Advanced Materials Liquid Crystal Institute/Physics National Science Foundation Electrically tunable cholesteric optical filters - Internship supplement	Supplement	08/15/19 - 07/31/22	\$52,049
Jun Li, Mathematics National Science Foundation <i>Offline and Online Change-Point Analysis for Large-Scale Time Series Data</i>	Continuation	09/01/20 - 08/31/21	\$32,066
Jonathan Maletic, Computer Science National Science Foundation CCRI: ENS: Collaborative Research: Enabling Automated Language Support for the srcML Infrastructure		07/15/20 - 06/30/23	\$397,848
Hanbin Mao, Chemistry National Cancer Institute Specific Recognition of G-quadruplexes	Continuation	09/01/20 - 08/31/21	\$315,186
Aleisha Moore, Biological Sciences National Institute of Child Health and Human Development The role of Kisspeptin/Neurokinin B/Dynorphin (KNDy) neurons in the pathogenesis of polycystic ovarian syndrome	Additional	09/01/20 - 02/28/21	\$56,806
Xiaozhen Mou, Biological Sciences United States Department of Treasury CARES Act: State of Ohio Wastewater SARS-CoV-2 Surveillance Project		08/01/20 - 12/30/20	\$92,200

Chang-Guen Oh, Flight Training Dankook University AI-Based Urban Air Mobility Flight Path Monitoring Platform Using AR/VR		06/01/20 - 05/31/21	\$70,000
Peter Palffy-Muhoray, Advanced Materials Liquid Crystal Institute/Mathematics Subcontract AlphaMicron Inc. /U.S. Air Force Research Laboratory Electronically Dimmable Eyewear Protection Devices Phase II		06/01/20 - 02/28/22	\$100,000
Peter Palffy-Muhoray, Advanced Materials Liquid Crystal Institute/Mathematics Subaward University of Massachusetts, Amherst/U.S. Office of Naval Research Photomechanical Material Systems: From Molecules to Devices	Continuation	06/01/18 - 05/31/23	\$240,000
Peter Palffy-Muhoray, Advanced Materials Liquid Crystal Institute/Mathematics U.S. Office of Naval Research A high power tunable light source for new photomechanical materials development		07/20/20 - 07/19/21	\$70,695
Elizabeth Piatt, University College Academic Diversity Success U.S. Department of Education <i>Kent State University McNair Scholars Program</i>	Continuation	10/01/20 - 09/30/21	\$272,364
Mary Ann Raghanti, Anthropology National Science Foundation Human Origins and Comparative Neurochemistry	Continuation	05/15/19 - 04/30/22	\$104,472
Angela Ridgel, Health Sciences Subaward Northwestern University /National Institute of Neurological Disorders and Stroke Study in Parkinson Disease of Exercise Phase 3 Clinical Trial: SPARX3		09/25/19 - 07/31/20	\$6,000
Shawn Rohlin, Economics Charles Koch Foundation Local Economic Multipliers: What we know, what we do not know, and new estimates from modern empirical techniques	Continuation	09/01/20 - 06/30/21	\$20,967
Kuldeep Singh, Geology Subaward AquaNRG Consulting Inc. /U.S. Department of Energy SBIR Phase II Subaward through AquaNRG: PoreStudio: First Cloud-based Reactive Flow Simulator		06/01/20 - 05/27/21	\$34,000
Mary Beth Spitznagel, Psychology Alanna Updegraff, Psychology The Robert Wood Johnson Foundation <i>Clinical Scholars Cohort Five - 2020: Addressing the Veterinarian Mental Health</i> <i>Crisis through an ACT-Based Program</i>		09/15/20 - 09/14/23	\$432,000
Michael Strickland, Physics Subaward Wayne State University /National Science Foundation CSSI: Frameworks: X-Ion Collisions with a Statistically and Computationally Advanced Program Envelope (X-SCAPE)		07/01/20 - 06/30/21	\$1,500
D Blake Stringer, College of Aeronautics and Engineering Md Amiruzzaman, College of Aeronautics and Engineering Jenna Merriman, College of Aeronautics and Engineering Subcontract Cal Analytics, LLCOhio Federal Research Network Interoperability, Resiliency, and Contigency Management for Ohio UAS Operations	Additional	02/01/20 - 06/15/21	\$90,000

Clarissa Thompson, Psychology Karin Coifman, Psychology Jennifer Taber, Psychology		09/01/20 - 08/31/21	\$172,372
U.S. Department of Education An Educational Intervention to Combat Whole Number Bias in Risk Perceptions in an Ambiguous Health Context: COVID-19			
Robert Twieg, Chemistry Facebook Technologies, LLC Low Birefringence Liquid Crystalline Photoreactive Polymer		09/01/20 - 08/31/21	\$199,985
Darlene Unger, Lifespan Development and Educational Sciences Administration for Community Living A Professional Development and Case Management (PDCM) Model for Seamless Transition Planning: Improving Postschool Outcomes	Continuation	09/30/20 - 09/29/21	\$475,000
David Ward, Biological Sciences Oscar Rocha, Biological Sciences National Science Foundation <i>Collaborative Research: Scale-Dependent Processes as the Drivers for</i>	Continuation	07/15/19 - 06/30/22	\$226,841
Understanding Range- and Niche-Expansion in a Widespread Native Species			
He Yin, Geography Subcontract Lawrence Livermore National Laboratory /U.S. Department of Energy <i>Cropland Abandonment Map</i>		09/03/20 - 09/30/20	\$21,909
Hiroshi Yokoyama, Advanced Materials Liquid Crystal Institute/Physics National Aeronautics and Space Administration Structure and Dynamics of Monodisperse Liquid Crystal Domains created on Suspended, Molecularly-Thin Smectic Films using Sub-Femtoliter Inkjet Technology	Continuation	12/30/16 - 12/29/21	\$44,000
Instruction			
Sonia Alemagno, College of Public Health Jennifer Miller, College of Public Health Ohio Department of Higher Education Choose Ohio First Scholarship Program: Scholarships in STEMM at Kent State University in Public Health	Continuation	07/01/20 - 06/30/21	\$119,154
Ching-I Chen, Lifespan Development and Educational Sciences Kizzy Albritton, Lifespan Development and Educational Sciences U.S. Department of Education Interdisciplinary Preparation in Early Educational Professions (Project INPREP)	Continuation	11/01/20 - 10/31/21	\$249,937
Sanna Harjusola-Webb, Lifespan Development and Educational Sciences U.S. Department of Education <i>Project NEXT (Natural Environments x Teams)</i>	Continuation	10/01/20 - 09/30/21	\$250,000
Aloysius Kasturiarachi, Stark Campus Christine Kauth, Stark Campus Gregory A Smith, Stark Campus Ohio Department of Higher Education <i>Choose Ohio First Scholarship Program: Scholarships in STEMM at Kent State</i> <i>University - Stark</i>	Continuation	07/01/20 - 06/30/21	\$125,921

Edgar Kooijman, Biological Sciences Gail Fraizer, Biological Sciences	Continuation	07/01/20 - 06/30/21	\$168,750
Ohio Department of Higher Education			
Choose Ohio First Scholarship Program: Career Pathways in STEM-Life Sciences: Advancing the human condition with technology			
Edgar Kooijman, Biological Sciences	Continuation	07/01/20 - 06/30/21	\$7,840
Ohio Department of Higher Education			
Choose Ohio First Scholarship Program: Integrated Science Training for Northeast Ohio's Future Biomedical and Biotechnology Workforce - Legacy program			
Tracey Motter, Nursing	Continuation	07/01/20 - 06/30/21	\$112,000
Christine Kauth, Stark Campus			
Ohio Department of Higher Education			
Choose Ohio First Scholarship Program: Linked-In to Practice BSN Program			
Davison Mupinga, Teaching, Learning and Curriculum Studies Subaward Ohio Department of Education /U.S. Department of Education <i>CTE Teacher Preparation and Retention FY21</i>		07/01/20 - 06/30/21	\$100,000
Joseph Ortiz, Geology	Continuation	08/17/20 - 05/31/21	\$3,500
Subaward Ohio Space Grant Consortium /Ohio Department of Higher Education	Continuation	00/1//20 05/51/21	\$5,500
Ohio Space Grant Consortium State-Funded Scholarships			
Joseph Ortiz, Geology	Continuation	08/17/20 - 05/31/21	\$9,500
Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration			
Ohio Space Grant Consortium Junior/Senior Scholarships AY20/21			
Frank Sansosti, Lifespan Development and Educational Sciences Ohio Department of Education		07/01/20 - 06/30/21	\$10,000
School Psychology Internship Coordination and Recruitment Kent State University School Psychology Program (FY 21)			
Evgenia Soprunova, Mathematics	Continuation	07/01/20 - 06/30/21	\$811,250
Darci Kracht, Mathematics			-
Andrew Tonge, Mathematics			
Ohio Department of Higher Education			
Choose Ohio First Scholarship Program: Careers in Mathematics and Computer Science			
Evgenia Soprunova, Mathematics	Continuation	07/01/20 - 06/30/21	\$17,183
Andrew Tonge, Mathematics			
Ohio Department of Higher Education			
Choose Ohio First Scholarship Program: Student Success in Math - Legacy Program			
Michael Tubergen, Chemistry	Continuation	07/01/20 - 06/30/21	\$90,000
Robin Selinger, Advanced Materials Liquid Crystal Institute/Physics			
Ohio Department of Higher Education			
Choose Ohio First Scholarship Program: Workforce Training for Ohio's STEM Industries			

Wendy Umberger, Nursing
Marilyn Nibling, Nursing
Andrea Warner Stidham, Nursing
Health Resources and Services Administration
Building Interdisciplinary Teams and Preparing Psychiatric Mental Health (PMH)
Nurse Practitioners to Provide PMH Treatment in Integrated Primary Care

Other Sponsored Activity

Rebecca Balogh Gates, Theatre and Dance Ohio Arts Council Porthouse Theatre FY21 Operating Support		07/01/20 - 06/30/21	\$16,791
Joanne Caniglia, Teaching, Learning and Curriculum Studies Davison Mupinga, Teaching, Learning and Curriculum Studies Stark Community Foundation Home Activity Packets for SPARK Summer Learning: A KSU and ECRC Collaboration		08/04/20 - 02/04/21	\$1,200
Mark Cassell, Political Science Ohio Department of Higher Education Washington Program in National Issues FY20 & FY21	Continuation	07/01/20 - 06/30/21	\$40,000
Adam Cinderich, University College Academic Diversity Success N.J. Akbar, University College Academic Diversity Success U.S. Department of Education <i>Kent State University Student Support Services Program</i>		09/01/20 - 08/31/21	\$527,601
Joanne Fenn, Museum Institute of Museum and Library Services Kent State University Museum Upgraded Storage Project for Western Costume 1673-1919		09/01/20 - 05/31/22	\$171,119
Amoaba Gooden, Pan-African Studies Gina Campana, Diversity, Equity and Inclusion Burton D. Morgan Foundation Kent State University's Diversity Education and Training Workshops		09/01/20 - 12/31/20	\$2,000
David Hassler, Wick Poetry Program/Arts and Sciences Jessica Jewell, Wick Poetry Program/Arts and Sciences Ohio Arts Council <i>Wick Poetry Center FY21 Operating Support</i>		07/01/20 - 06/30/21	\$20,805
Jennie Koch, Transfer Center Subaward Cuyahoga Community College /Ohio Department of Education <i>Tech Prep FY21 Funding</i>		07/01/20 - 06/30/21	\$177,867
Donald Larabee, Salem Campus Ohio Department of Higher Education <i>Kent State University Rising Scholars Program</i>	Continuation	07/01/20 - 06/30/21	\$80,000

Marianne Martens, Library and Information Science Joanne Caniglia, Teaching, Learning and Curriculum Studies Gretchen Rinnert, Visual Communication Design Subaward American University of Nigeria /U.S. Department of State Addressing Education in Northeast Nigeria - Adamawa and Gombe States	Continuation	03/02/20 - 12/31/20	\$226,169
David Mitchell, Tuscarawas Campus Ohio Arts Council Performing Arts Center Kent State Univ at Tuscarawas FY21 Operating Support		07/01/20 - 06/30/21	\$21,479
David Mitchell, Tuscarawas Campus Subaward Midwest Arts /National Endowment for the Arts Arts Midwest Touring Fund 2020-2021		07/01/20 - 06/30/21	\$3,100
Victor Pavona, Stark Campus Subaward Stark County Regional Planning Commission /U.S. Department of Housing and Urban Development Kent State Micro Enterprise Development Program		07/01/20 - 06/30/21	\$31,420
Victor Pavona, Stark Campus Subaward Ohio Development Services Agency /U.S. Small Business Administration Stark SBDC Small Business Development Center FY 2020 (Federal) - supplement	Supplement	10/01/19 - 09/30/20	\$21,123
Fabio Polanco, Theatre and Dance Ohio Arts Council <i>Missionaries</i>		07/01/20 - 12/31/20	\$9,873
Patricia Robinson, Diversity, Equity and Inclusion U.S. Department of Education Kent State University Upward Bound Health Professions	Continuation	09/01/20 - 08/31/21	\$312,480
Patricia Robinson, Diversity, Equity and Inclusion U.S. Department of Education <i>Kent State University Upward Bound Math-Science 2017-22</i>		09/01/20 - 08/31/21	\$312,480
Sarah Rogers, Museum Ohio Arts Council Fashion Museum Operating Support FY21		07/01/20 - 06/30/21	\$22,906
Marty Ropog, Ohio Literacy Resource Center/Teaching, Learning and Curriculum Studies Alexa Sandmann, Teaching, Learning and Curriculum Studies Subaward Ohio Department of Higher Education /U.S. Department of Education <i>ODHE Aspire FY2021 - Federal allocation</i>		07/01/20 - 06/30/21	\$58,400
Marty Ropog, Ohio Literacy Resource Center/Teaching, Learning and Curriculum Studies Alexa Sandmann, Teaching, Learning and Curriculum Studies Subaward Ohio Department of Higher Education /U.S. Department of Education <i>ODHE Aspire FY2021 - Federal Allocation</i>		07/01/20 - 06/30/21	\$1,119,643
Marty Ropog, Ohio Literacy Resource Center/Teaching, Learning and Curriculum Studies Subaward Sacramento Public Library /Institute of Museum and Library Services <i>Tutor Ready Writing Videos</i>	Supplement	07/01/19 - 09/30/20	\$5,769
Stephen Schillig, Tuscarawas Campus Subaward Ohio Development Services Agency /U.S. Small Business Administration FY2020 Small Business Development Center (SBDC) at Tuscarawas (Federal)	Supplement	10/01/19 - 09/30/20	\$40,345

Ricardo Sepulveda, Music 03/16/20 - 03/15/21 \$15,000 Kulas Foundation General Operating Support William Southards, College of Aeronautics and Engineering Supplement 04/01/20 - 09/30/21 \$77,000 Subaward Ohio Development Services Agency 'U.S. Small Business Administration COVID-19 Supplemental Funding for Ohio SBDC at Kent State University CAE Julia Stoll, Teaching, Learning and Curriculum Studies 07/01/20 - 06/30/21 \$20,000 Ohio Department of Education Early Childhood Education Grant, FY21 James Tudhope, Nursing 09/01/20 - 08/31/21 \$399,780 Wendy Umberger, Nursing Health Resources and Services Administration Advanced Nursing Education Nurse Practitioner Residency Integration Program H. Anderson Turner, Art 07/01/20 - 06/30/21 \$5,378 Ohio Arts Council Art Gallery Operating Support FY21 Erin Vaughn, Stark Campus 08/01/20 - 06/30/21 \$2,079 Ohio Arts Council 5th Annual Kent State Stark Guitar Weekend Jasmina Waters, Diversity, Equity and Inclusion 06/01/20 - 05/31/21 \$19,932 U.S. Department of Education Kent State University Upward Bound Classic 2017-22 Susan Zake, Journalism and Mass Communication 06/01/20 - 11/15/20 \$7,500 Kevin Dilley, Journalism and Mass Communication Scripps Howard Foundation

The Collaborative News Lab @ Kent State University

COMPARATIVE DATA

Fiscal Year to Date	FY 2019 - 2020	FY 2020 - 2021
Total Funding	\$ 17,770,612	\$ 15,737,421
Research	\$ 10,812,996	\$ 9,538,703
Instruction	\$ 3,457,031	\$ 2,429,480
Other Activity	\$ 3,500,584	\$ 3,769,239