

College of Human Environmental Sciences - FY 2007 Research Abstracts

2006 Oklahoma Social Indicator Survey

Three state agencies participated in the 2006 Oklahoma Social Indicator Survey (OSIS 2006). OSIS is an annual "omnibus" survey, where individual organizations define and pay for questions that are of special interest to them. Data from the survey provides useful and technically sound information for researchers and public policy decision-makers about characteristics, attitudes, and behaviors of Oklahoma residents. The participating agencies use their data for multiple needs, including market analysis, needs assessment, project evaluation and organizational planning.

Sponsor: Oklahoma Department of Mental Health and Substance Abuse Services, Oklahoma Department of Human Services' Oklahoma Partnership for School Readiness, Oklahoma Department of Rehabilitation Services

PI/PD: Celeste Campbell

Child Care Market Rate Survey

The focus of this study was to assess the average rate charged for child care in the state of Oklahoma. The Oklahoma Department of Human Services is federally mandated to conduct a labor market rate survey every two years to gather information on statewide availability and average costs of child care. A second objective of the study was to gather additional information about child care providers, such as number of teachers/assistants, staff turnover rates, starting wages and benefits, years of experiences, and highest level of education achieved. Findings from the study will help establish ODHS reimbursement rates for child care subsidies to low income families.

Sponsor: Oklahoma Department of Human Services, Division of Child Care Services

PI/PD: Celeste Campbell

Member Compensation Survey: Society of Exploration Geophysicists

The purpose of this study was to conduct a quantitative survey to investigate levels of compensation among members of the Society of Exploration geophysicist.

Sponsor: Society of Exploration Geophysicist

PI/PD: Celeste Campbell, Christine Johnson

Oklahoma Dietetic Service Agreement

This project was a service contract to host the Oklahoma Dietetics Association at OSU. The ODA promotes optimal nutrition and well-being for all people through professional development of its members, registered dietitians in a wide variety of settings and dietetics students.

Sponsor: Oklahoma Dietetics Association

PI: Carol Beier

Oklahoma Museums Association Focus Groups

The purpose of study was: (1) To identify the training and support needs of Oklahoma's museum community; (2) To evaluate current OMA programming and services as they relate to these needs; (3) To Gather information to help plan future programs and services; and (4) To explore the barriers that prevent participation in OMA.

Sponsor: Oklahoma Museums Association

PI/PD: Celeste Campbell

Oklahoma Tax Commission Customer Satisfaction Survey

A representative telephone survey of adult tax customers who had been contacted by a collection agency used by the Oklahoma Tax Commission (OTC) was conducted in 2006-2007. The study provided data related to customers' perceptions of collection agency staff (e.g., knowledgeable, competent, helpful, courteous), satisfaction with outcome of complaints made to the OTC regarding the collection agency, and overall satisfaction with the collection agency's services.

Sponsor: Oklahoma Tax Commission

PI/PD: Celeste Campbell

Oklahoma Women, Infants and Children Program Participants Satisfaction Survey

The primary aim of this study was to evaluate the services provided by the Oklahoma State Department of Health – Women, Infants, and Children (OSDH-WIC) program from the perspective of individuals receiving services.

Sponsor: Oklahoma State Department of Health

PI/PD: Celeste Campbell

Post High School Telephone Surveys and High School Exit Mailed Surveys to Juniors with IEPs

The primary purpose of this study was to collect and analyze data focusing on post-high-school work and educational activities from Oklahoma students who had IEPs and who have been out of high school for approximately one year.

Sponsor: Oklahoma State Department Of Education

PI/PD: Celeste Campbell

Sooner Start 2007 Family Survey

SoonerStart provides early intervention services to young children (ages birth to three years) with developmental disabilities and their families. Specifically, the program provides assistance to families by helping them develop skills needed to deal effectively with their child's disability and skills to promote better family functioning. Over 300 current and former SoonerStart family members were interviewed to assess overall satisfaction with the program and to evaluate the services provided.

Sponsor: Oklahoma Commission on Children & Youth

PI/PD: Celeste Campbell

Stillwater Medical Center 2006 Consumer Opinion Assessment

The primary aim of this study was to assess the opinions, attitudes, preferences, and behaviors of persons living in the Stillwater Medical Center service area. Residents were asked to indicate their awareness of area hospitals; use, choice, and satisfaction with area hospitals; factors used to select a hospital; image of area hospitals; ranking of area hospitals; rating of local community health care services; awareness of hospital advertising; and demographic information.

Sponsor: Stillwater Medical Center

PI/PD: Celeste Campbell

United Way Community-Wide Needs Assessment

The purpose of this study was to gain information regarding the human service needs in the Stillwater, Morrison, Perkins, Glencoe, and Ripley communities.

Sponsor: United Way of Stillwater

PI/PD: Celeste Campbell

"Who's Caring for Oklahoma's Youngest Children" Telephone Survey

The purpose of this study was to gain information about the care of Oklahoma's children under 6 years of age.

Sponsor: Oklahoma Child Care Resource and Referral Association

PI/PD: Celeste Campbell

DEPARTMENT OF DESIGN, HOUSING, AND MERCHANDISING

Building the US Competitiveness of Natural-Fiber and Related Industry by Preparing College Students and Small Business Community

This project's goal is to increase understanding of the worlds' two largest producers of apparel products (China and India), which also have significant potential as consumers for US branded apparel goods. To meet this goal, four educational/training modules (two for each country) will be

developed, implemented into undergraduate courses and disseminated to small business community.

Sponsor: United States Department of Agriculture

PI/PDs: Byoungho Jin, Glenn Muske

Design for Renovation of Stillwater Elks Lodge Dining Room

The purpose of this project was to have a class of students, working in teams and individually, generate designs for the renovation of Stillwater Elks Lodge dining room. The design proposals were exhibited at both the Stillwater Elks Lodge and the Gallery of the Design, Housing and Merchandising.

Sponsor: Stillwater Elks Lodge

PI/PD: Kyu-Ho Ahn

Design of Prototypes for Seatbelt Webbing and Buckles Project

The purpose of this project was to allow students in apparel design and production to work closely with a manufacturer in designing and developing accessories using seatbelt webbing and buckles provided by the manufacturer. Students designed and developed prototypes that were presented to Beams for consideration in adopting into their line of Seatbelt bags.

Sponsor: Beams Industries, Inc.

PI/PDs: Diane Morton-Ricord

Enhancing Oklahoma Academic and Small Business Community Competitiveness for Doing Business with China

This project seeks to improve students' level of international understanding and knowledge of China through curriculum internationalization and to enhance Oklahoma small business communities' capabilities to do business with China. To address the three areas of greatest need as identified by survey respondents (i.e., understanding of cultural/business practice differences, legal environment issues, and market development), this project developed comprehensive educational and training packages. The packages were disseminated to undergraduate students and into business practitioners through two workshops.

Sponsor: United States Department of Education

PI/PDs: Byoungho Jin, Donna Branson, Cheryl Farr, Glenn Muske

Ryerson University: Hong Yu

Facility Management and Design Course

The purpose of this project was to develop a course, "Facility Management and Design" which outlines the nine competency areas of facility management, ensuring functionality of the built environment by teaching students about the integration of people, place, process and technology.

Sponsor: International Facility Management Association

PI/PDs: Mihyun Kang, Paulette Hebert

Financial Literacy: Differences by Age and Experiences

The Financial Literacy project strives to determine if there are differences in financial literacy scores on the Jump\$tart Coalition for Personal Finance survey administered to a group of senior Oklahoma State University college students and their parents. Results will be used to develop financial literacy information to be presented to college seniors in their capstone course.

Sponsor: Donna Cadwalader Oklahoma Home and Community Education Research and Development Grant

PI/PDs: Jane Swinney, Sissy Osteen

High School Financial Planning Program

The National Endowment for Financial Education High School Financial Planning Program® (HSFPP) is a six-unit program available to schools (and non-formal educational organizations) free of charge. It is designed to help teach older youth about the basics of sound money management. The PI acts as coordinator and facilitator, promoting the HSFPP as part of Oklahoma Cooperative Extension Service programming efforts.

Sponsor: National Endowment for Financial Education
PI/PD: Sissy Osteen

Institute for Protective Apparel Research and Technology

This project established the Institute for Protective Apparel Technology Systems which teams academic, industry, and government experts in applied research and development and testing of the next generation of multifunctional materials and technologies desperately needed for body armor and other systems to save the lives and limbs of soldiers, expanding the institute's current crucial role in the NRL/ARL rapid response, cooperative program to develop the ONR Limb Protection System. A new laboratory is under construction, major new equipment is being installed, and existing laboratories and equipment are being updated. Data for a newly developed environmental database on characteristics of existing ballistic materials are being gathered.

Sponsor: Office of Naval Research

PI/PDs: Donna Branson, Semra Peksoz, Huantian Cao, Diane Ricord
College of Arts and Sciences: Phil Choo

NC-170 Mediating Exposure to Environmental Hazards Through Textile Systems.

Porphyrin has spectral shift when bound with toxic chemicals such as cyanide, diazinon, and carbamate. The spectral shift was observed in solution and porphyrin dyed cotton fabric. This property can be used to develop a chemical detection smart textile and to provide better protection for homeland security, industrial, and agriculture workers.

Sponsor: Oklahoma Agriculture Experimentation Station

PI/PD: Huantian Cao

Next Generation Body Armor

Research continued on the development of next generation body armor for the military. This work was done in collaboration with FSTechnology. Specifically new upper arm hard ballistic protection was developed and tested, a new upper arm carrying system was designed, and mass production capabilities was continued. Multiple patents are in process.

Sponsor: FSTechnology

PI/PDs: Donna Branson, Semra Peksoz

Performance Glove Prototype Production

A prototype basketball training glove was fabricated and produced in multiple sizes.

Sponsor: Michael Murphy

PI/PDs: Donna Branson, Semra Peksoz, Diane Ricord

Ultra-lightweight modular cooling system

A liquid-cooled prototype vest developed by OSU-DHM in a Memorial Institute for the Prevention of Terrorism funded project was interfaced with an advanced cooler unit developed by NanoPore. The OSU/DHM design team manufactured multiple vests, developed additional sizes of the vest, and planned a thermal manikin study and a human subject test to be conducted in the third SBIR/HSARPA phase.

Sponsor: NanoPore, Inc.

PI/PDs: Semra Peksoz, Donna Branson, Huantian Cao, Diane Ricord

DEPARTMENT OF HUMAN DEVELOPMENT AND FAMILY SCIENCE

2007 Behavioral Health Conference

This project was a conference management contract in which OSU manages all logistics associated with the Division of Human Services Behavioral Health conference. The conference theme was "Three Coins in the Fountain: Mental Health, Physical Health and Prevention". The keynote address was delivered by Dr. Vincent Felitti on the topic of "Adverse Childhood

Experiences and Their Relationship to Adult Health Status". Other presentation topics included the following: (a) "Ethics", (b) "HIV/AIDS Prevention", and (c) "Health Care and Consumerism: Exploring the Doctor-Patient Relationship". The conference provided continuing education for specialized service providers who work with the Native American population.

Sponsor: USPHS Indian Health Services

PI/PD: Tammy Henderson

Aging Families in the Aftermath of Hurricane Katrina

The research team examined how Hurricane Katrina influenced the lives of displaced aging adults from New Orleans and the surrounding areas and residents of Baton Rouge and the surrounding areas. The convenience sample comprised aging adults displaced by Hurricane Katrina who may be classified in one of three groups of participants: adults who were 60 years or older but not in a care giving situation, grandparents (50+) who are rearing their grandchildren, and a caregiver of a 60+ year old adult. Based on ecological theory, the interview schedule included demographic information, overall well-being, social support, and family functioning.

Sponsor: National Science Foundation

PI/PD: Tammy Henderson

Virginia Polytechnic University: Karen Roberto

Baseline Assessment of Father's Parenting

This project involved evaluation of the federally-funded "Promoting Responsible Fatherhood" grant given to Family and Children's Services in Tulsa, OK.

Sponsor: Family and Children's Services

PI: Christine Johnson

Child Abuse Prevention Statewide Network Coordination

The purpose of this project is to provide: 1) technical assistance for District Child Abuse Prevention Task Forces statewide and 2) Healthy Families America training for community-based family resource and support programs in Oklahoma.

Sponsor: Oklahoma State Department of Health, Office of Child Abuse Prevention

PI/PD: Deborah Richardson

Children's Cognitive Performance and Socio-Emotional Competence in Head Start Children

This year's report is based on 245 preschool children enrolled in Head Start from Fall to Spring in one of three academic years: 2003-2004; 2004-2005, 2005-2006. Correlation analyses revealed that two literacy outcomes, Peabody Picture Vocabulary Test scores and McCarthy Verbal Subscales, were both significantly correlated with the number of children's books in the home as well as the child's own attempts to initiate reading. McCarthy Verbal scores were also related to how often parents tried to teach their children to read. Children's initiation of book reading did mediate between the number of books in the home as well as parents' teaching of reading and McCarthy Verbal scores. In other words, what mattered was the impact of children's books in the home and parent attempts to teach reading on children's own interest in reading. Child initiation of reading, in turn, affected child verbal skills.

Sponsor: United CAP Head Start

PI: Laura Hubbs-Tait

MS thesis researcher: Rachel Bonnett

Developing Deliberative Practice

This study will help determine to what extent Oklahomans have used public deliberation and deliberative forums in communities and organizations to change from "politics as usual" to a citizenry that is more engaged in public decision making.

Sponsor: Kettering Foundation

PI/PDs: Renee Daugherty, Sue Williams

Early Childhood Education Masters Program

The Department of Human Development and Family Science and the Oklahoma Department of Human Services (DHS) Division of Child Care are cooperatively working to assure the state's child care licensing professionals are educated as to the best practices in early childhood. This education in turn positively impacts and guides the decisions made with Oklahoma children. The students in the program are DHS employees who work for the Division of Child Care licensing program that monitors the state's childcare facilities to facilitate learning and accommodate the needs of these full-time employees, facilitate learning and accommodate the needs of these full-time employees.

Sponsors: Oklahoma Department of Human Services, Division of Child Care

PI/PD: Sue Williams

Early Childhood Partnership Project with Stillwater Public Schools

A collaborative agreement between the Stillwater Public Schools and the Child Development Laboratory provides a model ECE classroom for students to observe children's development and exemplary teaching practices. Twelve children, including two children with disabilities, were enrolled. New curriculum was selected, as was a new assessment of child progress. Thirty-two ECE majors completed a total of 1152 lab hours in this classroom. New Fire Safety curriculum was tested with this group of children and their teachers. Three student and faculty research projects were conducted with the participation of these children, parents, and teachers.

Sponsor: Stillwater Public Schools

PI/PD: Pam Wilder

Early Settlement North - Conflict Settlement

The Early Settlement North Conflict Resolution Program is part of a statewide mediation network guided by state legislation and funded by the Alternative Dispute Resolution System of the Oklahoma Supreme Court. Early Settlement North is committed to consistently providing high quality, effective, inexpensive and expeditious conflict resolution services to the courts and the residents of eight counties in northern Oklahoma.

Sponsor: The Supreme Court of Oklahoma

PI/PD: Sue Williams

Emotion Regulation, Social Relationships, and Children's Adjustment to School

Using a multi-informant, multi-method approach to data collection, this project examined social and emotional factors that affect children's early school success and adjustment. Using a sample of over 150 Head Start and 150 kindergarten children, we found that factors such as emotion regulation, peer relations, and the quality of the teacher-child relationship affect a host of adjustment variables such as school readiness, math and language skills, and behavioral adjustment. Children with emotion regulation skills were more prepared for school and had fewer behavior problems, indicating that emotion regulation is an important component of school readiness.

Sponsor: National Institutes of Health

PI/PD: Amanda Morris

Evaluation of Scholars for Excellence in Child Care Program

Seven participants in the Scholars for Excellence in Child Care program are continuing for a second year as part of a case study evaluation of the program. These scholars have completed some courses in early childhood at four community colleges in the state. Members of the research team will continue observing classroom practice in order to document changes as a result of participating in professional development. Data from the first year of the evaluation has highlighted the strong influence of the center as well as the broader social pressure for school readiness on the classroom practices of teachers.

Sponsor: Oklahoma State Regents for Higher Education

PI/PD: Deborah Norris

Evaluation of Special Needs Caregiver Retreats

This five-year demonstration project focuses on increasing couple relationship satisfaction, decreasing disruptive conflict between parents, and increasing family functioning through marriage education services delivered in a weekend retreat format. Couples receiving marriage education services include foster parents, grandparents raising grandchildren, parents of autistic children, and parents on public assistance. The project investigator designed and conducted a short-term evaluation of the services delivered to these couples.

Sponsor: Oklahoma Department of Human Services

PI: Christine Johnson

Fire Safety Curriculum Design for 3-5 Year Old Children

A developmentally appropriate fire safety curriculum has been prepared by Early Childhood faculty at Oklahoma State University. This curriculum was pilot tested in a random assignment field study in pre-school classrooms in northwestern Oklahoma. During the 2006-2007 school year the curriculum was implemented into the Stillwater Public Schools. The Team prepared training materials, provided training and distributed materials for use with the curriculum. A variety of data has been collected and is being prepared for dissemination in the form of articles and Implementation Guide.

Sponsor: US Department of Homeland Security, Emergency Preparedness and Response Directorate (FEMA)

PI/PD: Linda Sheeran

Healthy Aging in Rural Oklahoma: Resilience to Disparity Among Old and very Old Survivors

This study will examine how psychosocial resources (e.g., personality, social support) influence the association between nutritional risk factors and health outcomes among rural older adults. In particular, this project will be used to identify variables that improve resilience to vulnerabilities in nutrition and health. This has implications relative to the development of aging services and programs used to promote healthy lifestyle behaviors in older rural populations

Sponsor: Donna Cadwalader Oklahoma Home and Community Education Research and Development Grant

PI/PDs: Alex Bishop

Department of Nutritional Science: Janice Hermann

Healthy Families – Canadian, Delaware, Texas, and Jefferson, Cotton, Comanche, and Stephens Counties

This Cooperative Extension program provides in-home and group education and support for families who are expecting or have a new baby continuing until the child is six. Using research-based curricula, goals are to assess family strengths and needs, enhance family functioning, promote positive parent-child interaction and healthy childhood growth and development. Through four program sites serving seven counties in FY 2007, 139 families were provided 1,986 home visits, 170 parent education, support group, and family activity sessions, and 155 child development screenings. Of enrolled parents, 35% were age 19 or under and 56% were single or divorced.

Sponsor: Oklahoma State Department of Health, Office of Child Abuse Prevention

PI/PD: Deborah Richardson

Husaka Child Learning Center Demonstration Project

In 2006-2007, the benchmark of educationally meaningful improvement by 45% of the children was attained for 6 of 9 language and communication performance measures: two measures of listening and understanding; one measure of speaking and communicating, and all three measures of book knowledge and appreciation. The same benchmark was attained for all six performance measures of children's Early Math and Science abilities. Children also improved significantly on benchmarks of behavioral progress: attention and ability to inhibit activity.

Sponsor: Pawnee Nation of Oklahoma, US Department of Education

PI: Laura Hubbs-Tait

Intervening in Family and Peer Context to Decrease Child Overweight

The Families and Schools for Health program targets negative family and peer relationships of overweight children. Goals are (a) to decrease children's level of overweight and improve their psychosocial functioning and (b) follow children over time to understand what predicts problematic weight and adjustment patterns. This year (a) data were collected at 29 schools, 1 time-point for 535 Cohort I children and 2 time points for 595 Cohort II children (anthropometric assessment, child and peer interviews, and teacher and parent questionnaires); (b) interventions were conducted with 108

families and in 33 classrooms; and (c) three manuscripts were submitted for publication.

Sponsor: United States Department of Agriculture

PI/PDs: Amanda Harrist, Glade Topham, Laura Hubbs-Tait

Department of Nutritional Sciences: Tay Kennedy

College of Arts and Sciences: Melanie Paige

Junior Faculty Mentorship

This project provided funding for Dr. Rosemary Blieszner (Virginia Tech) to visit Oklahoma State University and make a formal presentation of her research to faculty and graduate students. More importantly, Blieszner served as a consultant with Drs. Bishop and Brosi on research manuscripts and grant proposals.

Sponsor: NASULGC - Board on Human Sciences Research Committee

PI/PDs: Whitney Brosi, Alex Bishop

Legal Service Utilization and Policy Needs of Older Grandparents who Raise Grandchildren

The purpose of this project was to examine service utilization and needs of grandparents raising grandchildren. This project was among the first to examine how age and other demographic variables related to grandparents service use and needs. Before now, grandparents ranging in age from 22-90 have been grouped together in research, limiting what is known about important sub-groups of those raising grandchildren.

Sponsor: The Borchard Foundation Center on Law and Aging

PI/PD: Whitney Brosi

Long Term Care Authority Survey Development and Focus Groups

The Long Term Care Authority of Tulsa asked OSU to conduct a statewide evaluation of services provided to older persons and other adults who require in-home services. This work involved the development of the survey as well as conducting a total of 360 interviews across Oklahoma with representation from each county. Final reports, summarizing key outcomes and recommendations, were submitted to the agency.

Sponsor: Long Term Care Authority of Tulsa

PI/PD: Whitney Brosi

Marital Education Services for Couples Who Have Adopted a Child

This five-year demonstration project focuses on increasing couple relationship satisfaction, decreasing disruptive conflict between parents, and increasing family functioning, including parenting skills and child well-being. The project investigator designed and conducted a short-term evaluation of the services delivered to these couples.

Sponsor: Oklahoma Department of Human Services

PI: Christine Johnson

Marital Enrichment Services for Couples Who Have Adopted a Child

This three-year demonstration project focuses on increasing couple relationship satisfaction, decreasing disruptive conflict between parents, and increasing family functioning, including parenting skills and child well-being. The project investigators designed and conducted a short-term evaluation of the services delivered to these couples.

Sponsor: Oklahoma Department of Human Services

PIs: David Fournier, Christine Johnson

Mass Media - Katrina

This project examines how mass media reporters discussed Hurricane Katrina between August 29, 2005 and March 31, 2007. Using symbolic interaction theory and Critical Race Theory, researchers seek to unveil the meanings attached to words that described victims of Hurricane Katrina, such as "displaced," "evacuee," or "refugee." They also will study how printed language may or may not reflect empathetic, prejudice, or other phenomenon that emerge from mass media reports on Hurricane Katrina.

Sponsor: Oklahoma State University Center for the Study of Disasters and Extreme Events

PI/PD: Tammy Henderson

National Issues Forum: An Issue Guide on Domestic Violence

The focus of this project is to develop a National Issues Forums issue guide on intimate partner violence, working in tandem with the Oklahoma Partnership for Public Deliberation. The issue guide will be used in public deliberative forums throughout the United States, where people will deliberate three approaches to the issue, consider trade-offs, and identify common ground for action.

Sponsor: National Issues Forums Institute

PI/PDs: Renee Daugherty, Sue Williams

National Science Foundation's Polar Program Research Travel

The purpose of this proposal is to secure matching funds for consultation work with colleagues and community authorities in Alaska, an area included in the National Science Foundation's Polar Programs. To conduct research in arctic regions, researchers must follow the Principles for the Conduct of Research in the Arctic. Administrative leaders, elders, and community members must approve, modify, and continually participate in arctic research projects. Henderson traveled to Anchorage in Summer 2007 and submitted a grant proposal on Alaskan grandparents September 2007.

Sponsor: NASULGC - Board on Human Sciences Research Committee

PI/PD: Tammy Henderson

Needs Assessment and Evaluation: Tulsa Service Delivery for Disadvantaged Children and their Families.

This research project assessed the obstacles that prevent economically disadvantaged parents in Tulsa from getting their young children needed mental and behavioral health services. During the course of the project 150 parents were interviewed in their homes by project staff. Another 400 parents completed telephone interviews.

Sponsor: Anne and Henry Zarrow Foundation

PI/PD: Glade Topham, Kathleen Briggs, Carolyn Hendrix, Dave Fournier

Oklahoma Marriage Initiative - Analysis, Consultation and Management

Data analysis was conducted for the Oklahoma Department of Human Services and the Oklahoma Marriage Initiative on an on-going basis using various data sources. In addition, consultation services regarding study design, sampling, data collection, and statistical analysis were provided for various research and process evaluation projects implemented by the Initiative. Research briefs on marriage-related issues were written and coordinated. This project also included managing and coordinating a board of nationally recognized scholars who serve as research advisors to the Initiative.

Sponsor: Oklahoma Department of Human Services

PI: Christine Johnson

Oklahoma Parents as Teachers – Texas County

The goal of the Oklahoma Parents as Teachers program is to strengthen the capacity of parents to be effective first teachers and is designed to maximize a child's overall development during the first three years, lay the foundation for school success and minimize developmental problems that interfere with the child's learning. The program provides in-home and group education and

support for families who are expecting or have a child between birth to age three. Conducted by Cooperative Extension, in FY 2007, 23 families were enrolled and served.

Sponsor: Guymon Public Schools, Oklahoma State Department of Education

PI/PD: Deborah Richardson

Parenting Practices for Cognitive Emotional and Nutritional Health

This project evaluates the effectiveness of separate versus combined Oklahoma Cooperative Extension Services (OCES) initiatives: Family Resilience and Food, Nutrition and Health. Currently, the initiatives and their respective impact teams function separately. The Family Resilience initiative emphasizes improving children's problem solving skills to increase their cognitive and socioemotional competence. The Food, Nutrition and Health initiative emphasizes adopting healthy eating, improving family food choices, and increasing physical activity to improve health and decrease risk factors linked to overweight.

Sponsor: Oklahoma Agriculture Experimentation Station

PIs: Laura Hubbs-Tait, Tay Kennedy

Positive Child/Youth Development Impact Program

About 22 County Family & Consumer Sciences and 4-H Extension educators are participating in this program from FY 2007-2011. The goal is to prevent risk behaviors in Oklahoma children and youth by enhancing positive social competencies such as problem-solving, thinking, communication, interpersonal relationships, and conflict resolution skills. Components include lessons to children/youth in pre-schools and schools, and training for teachers and parents. In spring 2007, the *I Can Problem Solve* curriculum was launched in six counties and will be expanded to additional counties in the fall 2007. An evaluation plan to assess program effectiveness was designed and implemented.

Sponsor: Oklahoma Cooperative Extension Service

PI: Debbie Richardson

Research Support of and Stakeholder Participation in the Revision of Oklahoma's Strategic Water Resources Management Plan

This project provides partial support for conducting approximately 40 citizen input meetings through OSU Cooperative Extension county offices as contributions to the development of the 2010 Oklahoma Water Plan by the Oklahoma Water Resources Board.

Sponsor: Oklahoma Water Resources Board

PI/PDs: Renee Daugherty, Sue Williams

Environmental Institute: Will Focht

College of Agriculture and Natural Resources: Michael Kizer, Ladonna McCowan, Larry Sanders

The Role of Cohabitation in Marriage and Union Formation

Consultation and guidance was given to a team of researchers at the University of Denver team for a federally-funded study examining the marital outcomes of cohabiting youth in the US. Work included consultation on instrument design, sampling design, and subject recruitment.

Sponsor: University of Denver, National Institutes of Health

PI: Christine Johnson

DEPARTMENT OF NUTRITIONAL SCIENCES

A Study to Demonstrate the Effects of Women's Herbal Supplements on the Physical and Psychological Symptoms Associated with Menopause

The purpose of this study is to compare the effect of herbal supplements on the frequency and severity of hot flashes (including night sweats) among menopausal women.

Sponsor: Amerifit Nutrition Inc.

PI/PDs: Nancy Betts

Florida State University: Bahram Arjmandi

Childhood Obesity Prevention/Intervention Team Initiative Program

The purposes of this study are to examine the effectiveness of extension educator programming on knowledge and behaviors related to obesity among school children and to determine barriers to obesity prevention.

Sponsors: Oklahoma Cooperative Extension Service, Oklahoma Agricultural Experimentation Station

PIs: Nancy Betts, Barbara Brown, Janice Hermann,
Oklahoma Cooperative Extension Service: Recia Garcia

Chronic Effects of Freeze-Dried Whole Blueberry Drink Consumption on Biomarkers of Lipid Peroxidation and Inflammation in Subjects with Metabolic Syndrome (MeS)

This research study will analyze the chronic effects of freeze-dried whole blueberry drink consumption on clinical features of Metabolic Syndrome and biomarkers of oxidative stress and inflammation in subjects with MeS. Twenty-five subjects with MeS, will be recruited following an initial screening by telephone questionnaire. Blood draws and anthropometric measurements will take place at screening, 4, & 8 weeks of the study. We will also assess the effects of blueberry flavonoids on insulin resistance.

Sponsor: US Highbush Blueberry Council

PI/PDs: Aprita Basu
University of Oklahoma Health Science Center: Timothy Lyons

Dried Blueberries: Impact on Bone Strength

This study examined the extent to which blueberries can modulate bone mass and lipid parameters in ovariectomized rat. Ovariectomized rats are suitable animal model to investigate the changes in bone and lipid parameters that occur in postmenopausal women.

Sponsor: US Highbush Blueberry Council

PI/PDs: Edralin Lucas
Florida State University: Bahram Arjmandi

Framing and Deliberation of Obesity among African American, White, Hispanic & Native American Limited Resource Women

The goal of this project is to positively influence the state of obesity in Oklahoma by better understanding cultural and economic aspects of obesity among diverse limited income women.

Sponsor: Oklahoma Agricultural Experimentation Station

PIs: Stephany Parker, Janice Herman
Department of Human Development and Family Science: Sue Williams

Formative Evaluation for the Development of a Social Marketing Program for Improved Health among Native Americans living in Chickasaw Nation Boundaries

This assessment of Native Americans living in the Chickasaw Nation boundaries utilizes mixed methods to explore cultural views of health and inform the development of a social marketing intervention unique to the Chickasaw Nation.

Sponsor: Chickasaw Nation, Oklahoma Department of Human Services

PI/PDs: Stephany Parker
Department of Sociology: Jean Van Delinder
Mississippi State University: Chiquita Briley

Modulation of Defensin Production by Mushroom Extracts in Human Cell Lines

The objective of this project is to investigate the effects of mushrooms including white button mushrooms (the most common in the American diet) on the production of defensins, markers of inflammation, and various immune responses. Defensins are proteins produced by immune and epithelial cells and they kill pathogens (infectious agents). They also affect cancer progression. Our preliminary results suggest that mushroom extracts induce defensin production by human cell lines. Now, we want to study markers of inflammation (a cause of many human chronic diseases), bacterial killing, and cancer development in special laboratory mice fed mushroom fortified diets.

Sponsors: The Mushroom Council, United States Department of Agriculture
PI/PD: Solo Kuvibidila

Oklahoma Nutrition Education Program

The purpose of this program is to empower families with the knowledge and skills needed to make healthy lifestyle choices by providing nutrition education, promotion of nutrition education messages, and referrals to agency nutrition programs. Pre/post evaluation records indicate 88% of the families/households graduating from the program exhibit a positive change in their diet at the time of exit from the program.

Sponsor: Oklahoma Department of Human Services, Food Stamp Program

PI/PDs: Debra Greene-Garrard, Deana Hildebrand, Janice Hermann, Barbara Brown, Mike Merten, Youmasu Siewe

SCHOOL OF HOTEL AND RESTAURANT ADMINISTRATION

Hospitality Lodging Crisis Management Plans

The project determines how the level of preparedness affects the implementation of a crisis management plan, in responding, and recovering from a corporate crisis or natural disaster. The level of importance and performance will be determined for the above-mentioned variables. Organizational change and organizational effectiveness of attaining the goals of a crisis management plan will be determined in light of the level of preparedness to face a corporate crisis.

Sponsor: Oklahoma State University Center for the Study of Disasters and Extreme Events

PI/PDs: Jerrold Leong, Greg Dunn, Donald Wood
Department of Nutritional Sciences: Edralin Lucas

Louisiana Tourism Industry/Economy

On August 29, 2005, the greatest natural disaster in U.S. history took place when Hurricane Katrina struck southern Louisiana and Mississippi. Experts estimate Hurricane Katrina to have been the costliest natural disaster in U.S. history with an estimated impact of over \$200 billion in potential losses. Katrina was unique in that it severely and negatively impacted four key dimensions of the U.S. economy in terms of urban infrastructure, transportation, energy, and tourism.

Sponsor: Oklahoma State University Center for the Study of Disasters and Extreme Events

PI/PDs: Greg Dunn, Jerrold Leong, David Njite
Department of Nutritional Sciences: Edralin Lucas

Statewide Inventory & Potential Development of Agritourism in Oklahoma

This project establishes a detailed and complete database of the inventory of statewide Agritourism businesses and identifies the urgent needs and major barriers for Oklahoma Agritourism development. It also discovers current Agritourism visitors' characteristics, purpose of the visits, visiting behavior and expenditures. Lastly the researchers will make recommendations of potential enterprises for the future development of Agritourism in Oklahoma.

Sponsor: Oklahoma Agriculture Experimentation Station

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