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Center for Urban and Regional Affairs

CURA RESOURCE COLLECTION

Center for Urban and Regional Affairs
University of Minnesota
330 Humphrey Center

**INVENTORY OF PUBLIC POLICY RESEARCH
RELATED TO GREATER MINNESOTA**

Results of a Survey of University of Minnesota Faculty

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Revised June 1995

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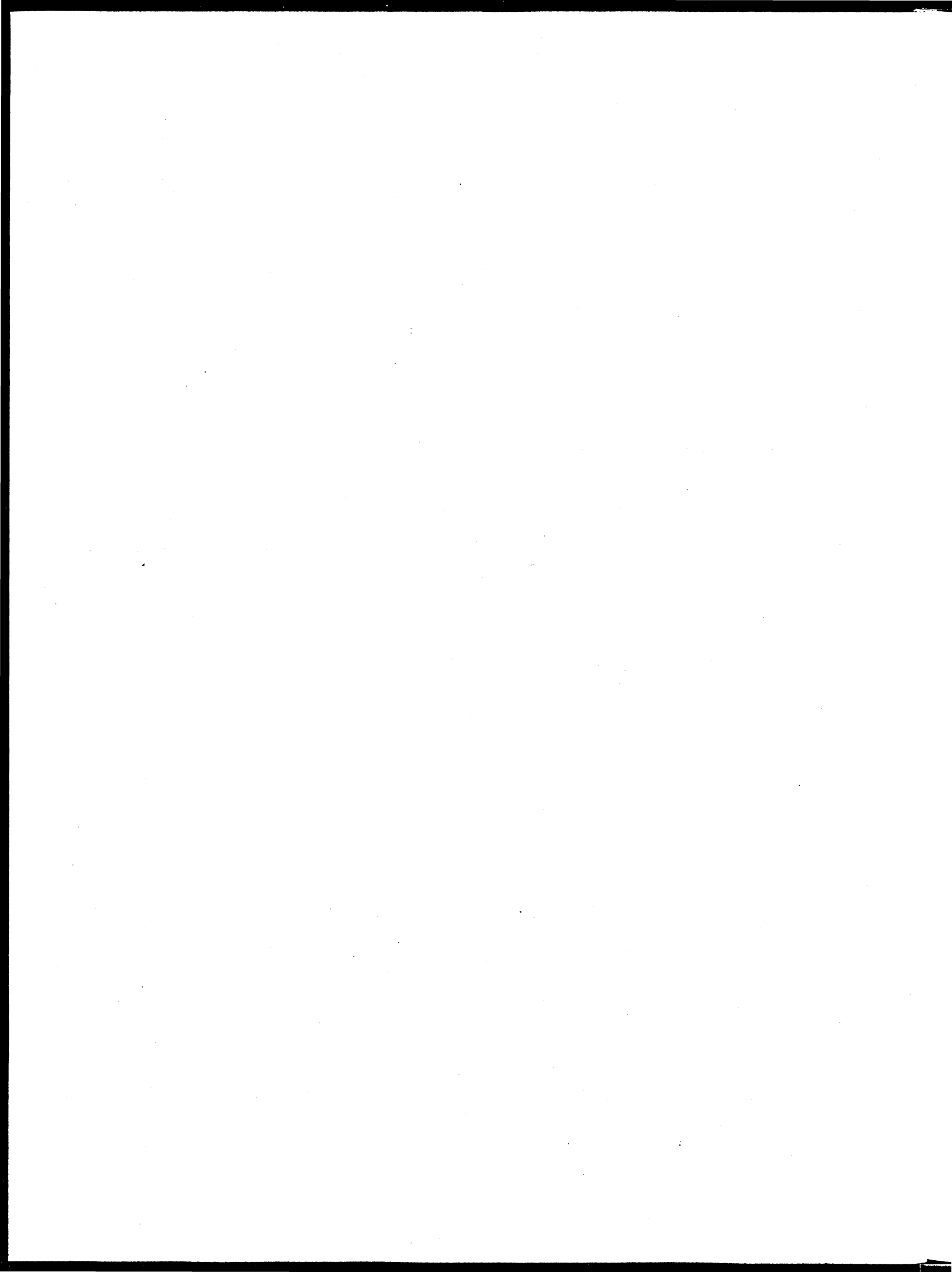
Note that some projects are listed under more than one research area

INTRODUCTION

For the past two years CURA has sponsored quarterly workshops designed to stimulate interest in research relating to greater Minnesota. The meetings focused on a variety of issues and faculty from a number of University departments attended. Those attending recommended a survey of University faculty to find out what policy issues are currently being researched. This publication presents the results of the survey.

Over seventy-five faculty responded, giving information about 120 research projects. The inventory presents these projects organized by topic area so that researchers may share knowledge or develop new networks. We wish to thank faculty for sharing information about their projects and making this publication possible.

A list of telephone numbers for principal investigators has been added to this revised edition of the inventory to facilitate contacting individual researchers. The list appears on the final page of the report.



AGRICULTURE

Strategic Decision-Making by Managers of Agribusiness Firms

Research areas: agriculture, industry–food/agriculture
Department: Agricultural and Applied Economics
Investigators: Vernon Eidman

The Use of Taxation to Control Nitrate Pollution of Groundwater

Research areas: agriculture, environment and energy, land use
Department: Agricultural and Applied Economics
Investigators: Vernon Eidman

Bulk Commodity Transportation Impacts on the Economy and the Environment

Research areas: agriculture, environment and energy, transportation
Department: Agricultural and Applied Economics
Investigators: Jerry Fruin

Economics of Alfalfa Biomass for Electricity Generation

Research areas: agriculture, economic development, environment and energy, land use
Department: Agricultural and Applied Economics
Investigators: Jerry Fruin (part of work with NSP done with Center for Alternative Plant and Animal Products)

Management of the Rural Road System

Research areas: agriculture, economic development, transportation
Department: Agricultural and Applied Economics
Investigators: Jerry Fruin

The Changing Regional Structure of the U.S. Dairy Industry: Causes and Implications for the Upper Midwest

Research areas: agriculture
Department: Agricultural and Applied Economics
Investigators: Jerome W. Hammond

Structural Change in the Livestock Industry: Preparation of Educational Materials

Research areas: educational outreach, agriculture, industry–food/agribusiness
Department: Agricultural and Applied Economics
Investigators: Bill Lazarus

Farmland Sales Price Movements

Research areas: agriculture, land use
Department: Agricultural and Applied Economics
Investigators: Steven J. Taff

Financing Farmland Preservation

Research areas: agriculture, land use
Department: Agricultural and Applied Economics
Investigators: Steven J. Taff

Point/Non-Point Pollutant Trading

Research areas: agriculture, environment and energy
Department: Agricultural and Applied Economics
Investigators: Steven J. Taff

AGRICULTURE

Farmbook; A Whole-Farm Information Management System

Research areas: agriculture, environment and energy
Department: Agricultural Research Service, U.S. Department of Agriculture
Investigators: Sam Alessi

Spring Wheat Breeding

Research areas: agriculture
Department: Agronomy and Plant Genetics
Investigators: Robert H. Busch

Comminuted Beef/Barley Mixtures

Research areas: agriculture
Department: Animal Science
Investigators: P.B. Addis and Richard J. Epley

Probiotics and Health (Useful Bacteria)

Research areas: agriculture, health care, other—nutrition and health
Department: Food Science and Nutrition
Investigators: Linda Brady and Frank Busta

Reducing Colon Cancer Risk With Soybeans

Research areas: agriculture, health care
Department: Food Science and Nutrition
Investigators: Daniel Gallaher

Use of Natural Odorants for Control of Sea Lamprey

Research areas: agriculture, environment and energy, health care
Department: Food Science and Nutrition
Investigators: Peter Sorensen

Shelf Life Testing of Sunflower Kernel

Research areas: agriculture, industry—food/agribusiness
Department: Food Science and Nutrition
Investigators: Zata Vickers and C. Hofland

Degradation of Halogenated Pollutants By Bacteria

Research areas: agriculture, environment and energy
Department: Genetics and Cell Biology
Investigators: Alan Hooper and Todd Vannelli

Southeastern Minnesota Karst

Research areas: agriculture, environment and energy, land use
Department: Geology and Geophysics
Investigators: E. Calvin Alexander, Jr.

Minnesota River Implementation

Research areas: agriculture, environment and energy, land use
Department: Geology and Geophysics
Investigators: Bruce Wilson

AGRICULTURE

Center for Urban Ecology (CUE)

Research areas: agriculture, environment and energy, land use
Department: Horticultural Science
Investigators: J. Carter, S. Galatowitsch, G. Johnson, V. Krischik, H. Pellett,
C. Rosen, J. Tester

Development of Genetic Resistance to Disease and Insect Pests

Research areas: agriculture, industry–food/agribusiness
Department: Horticultural Science
Investigators: David W. Davis

Minnetonka Lawn Ordinance: Case Study of Ordinance Development

Research areas: agriculture, land use, industry–native plant production
Department: Horticultural Science/Minnesota Landscape Arboretum
Investigators: Anne M. Hanchek

Low Maintenance and Alternative Turfgrasses

Research areas: agriculture, environment and energy
Department: Horticultural Science
Investigators: Mary H. Meyer

Utilization of Municipal Solid Waste, Cover Crop Management

Research areas: agriculture, environment and energy
Department: Horticultural Science
Investigators: Bert Swanson

Commercial Aquaculture: Implications for Water Quality in Mine Pit Lakes

Research areas: agriculture, environment and energy, industry–aquaculture
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Richard Axler, Michael McDonald and Scott Bridgham

Constructed Wetlands in Northern Minnesota: Development of a Novel Treatment System for Aquaculture Wastes

Research areas: agriculture, environment and energy, industry–aquaculture
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Richard Axler, Michael McDonald and Scott Bridgham

Crayfish and Baitfish Production in Minnesota Rice Paddies: Economic, Resource, and Technologic Aspects

Research areas: agriculture, environment and energy, industry–aquaculture
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Michael McDonald and Carl Richards

Minnesota River Water Quality Issues

Research areas: agriculture, environment and energy, land use
Department: Soil Science
Investigators: H.H. Cheng

CULTURAL/RACIAL DIVERSITY

Patterns of Assimilation and Community Acceptance of Hispanics in Minnesota

Research areas: cultural/racial diversity, family/social issues/youth
Department: Center for Rural Sociology and Community Analysis
Investigators: Dario Menanteau

Income and Poverty in Minnesota

Research areas: economic development, environment and energy, land use,
cultural/racial diversity
Department: Center for Urban and Regional Affairs
Investigators: William J. Craig

Bicultural Parent Education Program For Southeast Asian Families

Research areas: educational policy, cultural/racial diversity, family/social issues/youth
Department: Family Social Science and Refugee Studies Center
Investigators: Daniel F. Detzner

The Rise of Ghetto Poverty in the 1980s

Research areas: other-poverty, health care, cultural/racial diversity, family/social issues/youth
Department: Humphrey Institute of Public Affairs
Investigators: Sanders Korenman

Tribal Courts in Minnesota

Research areas: cultural/racial diversity, other-criminal justice
Department: Law School
Investigators: Joan Howland

Project Resilience: Longitudinal Study of Children With Chronic Illness and Disability

Research areas: health care, cultural/racial diversity, educational outreach,
family/social issues/youth
Department: Public Health-Health Management and Policy, Maternal and Child Health
Investigators: Joan Patterson and Robert Blum

Social Origins of U.S. and European Nativism

Research areas: cultural/racial diversity
Department: Sociology; Center for European Studies
Investigators: William Brustein

ECONOMIC DEVELOPMENT

Economics of Alfalfa Biomass for Electricity Generation

Research areas: agriculture, economic development, environment and energy, land use
Department: Agricultural and Applied Economics
Investigators: Jerry Fruin (part of work with NSP done with Center for Alternative Plant and Animal Products)

Management of the Rural Road System

Research areas: agriculture, economic development, transportation
Department: Agricultural and Applied Economics
Investigators: Jerry Fruin

Impact of Casinos on Income in Minnesota Counties

Research areas: economic development
Department: Agricultural and Applied Economics
Investigators: Jean Kinsey and Todd Gabe, R.A.

Building Supportive Environments For Basic Training in Greater Minnesota

Research areas: economic development, industry
Department: Agricultural and Applied Economics
Investigators: Wilbur Maki and George Morse

Economic Growth, Trade and Agriculture

Research areas: other-GATT/NAFTA, economic development
Department: Agricultural and Applied Economics
Investigators: Terry L. Roe

Income Inequality in Minnesota

Research areas: economic development
Department: Center for Rural Sociology and Community Analysis
Investigators: Dario Menanteau

Social Well-Being in Minnesota Counties

Research areas: economic development, family/social issues/youth
Department: Center for Rural Sociology and Community Analysis
Investigators: Dario Menanteau

Changes in Retail Trade in Greater Minnesota, 1987-1992

Research areas: economic development
Department: Center for Urban and Regional Affairs
Investigators: Thomas L. Anding

A Comprehensive Planning Model for Minnesota Indian Reservations: Bois Forte and Lake Vermillion Pilot Study

Research areas: economic development, land use
Department: Center for Urban and Regional Affairs
Investigators: Thomas L. Anding

Minnesota Community Profiles: Index of Development Activity

Research areas: economic development
Department: Center for Urban and Regional Affairs
Investigators: Thomas L. Anding

ECONOMIC DEVELOPMENT

Income and Poverty in Minnesota

Research areas: economic development, environment and energy, land use,
cultural/racial diversity

Department: Center for Urban and Regional Affairs

Investigators: William J. Craig

Two-Way Transfers in Intergenerational Co-Residence

Research areas: other-housing, economic development, family/social issues/youth

Department: Design, Housing and Apparel

Investigators: Earl W. Morris

Nonlinear Modeling and Forecasting of Minnesota Economic Data

Research areas: economic development, educational outreach, industry

Department: Electrical Engineering

Investigators: Vladimir Cherkassky

Freight Flows 1990

Research areas: economic development, transportation, industry-food/agribusiness

Department: Humphrey Institute of Public Affairs

Investigators: Candace Campbell

Role of R&D Organizations in Bilateral Technology Transfer between Western Europe and Red River Trade Corridor

Research areas: other-technology based business, economic development

Department: Humphrey Institute of Public Affairs

Investigators: Candace Campbell

An Economic Development Strategy for the Central Minnesota Region

Research areas: economic development, transportation, industry

Department: Humphrey Institute of Public Affairs

Investigators: Lee Munnich

County Geologic Atlases and Regional Hydrogeologic Assessments

Research areas: economic development, environment and energy, land use,
educational outreach

Department: Minnesota Geological Survey

Investigators: David L. Southwick and Kenneth L. Harris

EDUCATIONAL OUTREACH

Structural Change in the Livestock Industry: Preparation of Educational Materials

Research areas: educational outreach, agriculture, industry–food/agribusiness
Department: Agricultural and Applied Economics
Investigators: Bill Lazarus

Minnesota Technical Assistance Program

Research areas: educational outreach, environment and energy
Department: Environmental and Occupational Health
Investigators: Cindy McComas and Robert Lundquist

Minnesota Working Family Credit Program

Research areas: educational outreach, health care, family/social issues/youth
Department: Family Social Science
Investigators: Jean Bauer

Family Policy and Family Well-Being: The Role of Political Culture

Research areas: health care, educational outreach, family/social issues/youth
Department: Family Social Science
Investigators: Shirley L. Zimmerman

Biological Control of Eurasian Water Milfoil

Research areas: environment and energy, educational outreach
Department: Fisheries and Wildlife
Investigators: Ray Newman

Intercultural Mediation in Post-Communist Countries

Research areas: educational outreach, other–intercultural negotiations
Department: Humphrey Institute of Public Affairs, Conflict and Change Center
Investigators: Tom Fiutak

Director of the Judicial Trial Skills Training Program

Research areas: other–judicial education, educational outreach
Department: Law School
Investigators: Steve Simon

County Geologic Atlases and Regional Hydrogeologic Assessments

Research areas: economic development, environment and energy, land use, educational outreach
Department: Minnesota Geological Survey
Investigators: David L. Southwick and Kenneth L. Harris

Project Resilience: Longitudinal Study of Children With Chronic Illness and Disability

Research areas: health care, cultural/racial diversity, educational outreach, family/social issues/youth
Department: Public Health-Health Management and Policy, Maternal and Child Health
Investigators: Joan Patterson and Robert Blum

EDUCATIONAL OUTREACH

Minnesota Area Geriatric Education Center

Research areas: educational outreach, health care, family/social issues/youth

Department: Public Health—Institute for Health Services Research

Investigators: Robert L. Kane, faculty from Family Social Science

Sustainable Biomass Electricity Production: Focus Group

Research areas: environment and energy, educational outreach

Department: Vocational and Technical Education, Center for Education in Agriculture and Extension

Investigators: Earl Bracewell and Helen Murray

EDUCATIONAL POLICY

Partnership to Address Violence Through Education (PAVE)

Research areas: educational policy, family/social issues/youth
Department: Educational Psychology
Investigators: Mary A. McEvoy

Nonlinear Modeling and Forecasting of Minnesota Economic Data

Research areas: economic development, education policy, industry
Department: Electrical Engineering
Investigators: Vladimir Cherkassky

Bicultural Parent Education Program For Southeast Asian Families

Research areas: educational policy, cultural/racial diversity, family/social issues/youth
Department: Family Social Science and Refugee Studies Center
Investigators: Daniel F. Detzner

Higher Education Center Against Violence and Abuse

Research areas: other-violence, educational policy, family/social issues/youth
Department: Social Work
Investigators: Jeff Edleson and Christine Umbra

An Agenda For State Government

Research areas: other-state policy, educational policy
Department: Humphrey Institute of Public Affairs
Investigators: John Brandl

Center for School Change

Research areas: educational policy
Department: Humphrey Institute of Public Affairs
Investigators: Joe Nathan

Longitudinal Head Start Family Impact Project

Research areas: educational policy, family/social issues/youth
Department: Sociology
Investigators: Robert K. Leik

School-Based Enterprise

Research areas: educational policy
Department: Vocational and Technical Education
Investigators: James R. Stone III

Organizing High School Education in and Around its Local Environment

Research areas: educational policy
Department: Vocational and Technical Education, Center for Education in Agriculture and Extension
Investigators: Earl Bracewell and Helen Murray

Perceptions About Agriculture and Agricultural Education in Minnesota

Research areas: educational policy
Department: Vocational and Technical Education, Center for Education in Agriculture and Extension
Investigators: Earl Bracewell and Helen Murray

ENVIRONMENT AND ENERGY

The Use of Taxation to Control Nitrate Pollution of Groundwater

Research areas: agriculture, environment and energy, land use
Department: Agricultural and Applied Economics
Investigators: Vernon Eidman

Bulk Commodity Transportation Impacts on the Economy and the Environment

Research areas: agriculture, environment and energy, transportation
Department: Agricultural and Applied Economics
Investigators: Jerry Fruin

Economics of Alfalfa Biomass for Electricity Generation

Research areas: agriculture, economic development, environment and energy, land use
Department: Agricultural and Applied Economics
Investigators: Jerry Fruin (part of work with NSP done with Center for Alternative Plant and Animal Products)

Point/Non-Point Pollutant Trading

Research areas: agriculture, environment and energy
Department: Agricultural and Applied Economics
Investigators: Steven J. Taff

Farmbook; A Whole-Farm Information Management System

Research areas: agriculture, environment and energy
Department: Agricultural Research Service, U.S. Department of Agriculture
Investigators: Sam Alessi

The Sociocultural (Human) Dimensions of Eco-System-Based Management and Stakeholder Participation

Research areas: environment and energy, land use
Department: Anthropology
Investigators: Luther P. Gerlach

Income and Poverty in Minnesota

Research areas: economic development, environment and energy, land use, cultural/racial iversity
Department: Center for Urban and Regional Affairs
Investigators: William J. Craig

Minnesota Technical Assistance Program

Research areas: educational outreach, environment and energy
Department: Environmental and Occupational Health
Investigators: Cindy McComas and Robert Lundquist

Biological Control of Eurasian Water Milfoil

Research areas: environment and energy, educational outreach
Department: Fisheries and Wildlife
Investigators: Ray Newman

ENVIRONMENT AND ENERGY

Use of Natural Odorants for Control of Sea Lamprey

Research areas: agriculture, environment and energy, health care
Department: Food Science and Nutrition
Investigators: Peter Sorensen

Benefits Based Management for Minnesota State Parks

Research areas: other-parks/recreation, environment and energy
Department: Forest Resources
Investigators: Dorothy H. Anderson

Changes in Recreational Boating Conditions in Twin Cities Metro Area

Research areas: other-parks/recreation, environment and energy
Department: Forest Resources
Investigators: Dorothy H. Anderson

Community Benefits Derived from Existence of State Parks in Minnesota

Research areas: other-parks/recreation, environment and energy
Department: Forest Resources
Investigators: Dorothy H. Anderson

Degradation of Halogenated Pollutants By Bacteria

Research areas: agriculture, environment and energy
Department: Genetics and Cell Biology
Investigators: Alan Hooper and Todd Vannelli

Evaluation of Minnesota Land Ownership

Research areas: other-government history, other-land ownership, environment and energy,
land use
Department: Geography
Investigators: Rod Squire

Southeastern Minnesota Karst

Research areas: agriculture, environment and energy, land use
Department: Geology and Geophysics
Investigators: E. Calvin Alexander, Jr.

Minnesota River Implementation

Research areas: agriculture, environment and energy, land use
Department: Geology and Geophysics
Investigators: Bruce Wilson

Center for Urban Ecology (CUE)

Research areas: agriculture, environment and energy, land use
Department: Horticultural Science
Investigators: John Carter, Sue Galatowitsch, Gary Johnson, Vera Krischik,
Harold Pellett, Carl Rosen and John Tester

Low Maintenance and Alternative Turfgrasses

Research areas: agriculture, environment and energy
Department: Horticultural Science
Investigators: Mary H. Meyer

ENVIRONMENT AND ENERGY

Utilization of Municipal Solid Waste, Cover Crop Management

Research areas: agriculture, environment and energy
Department: Horticultural Science
Investigators: Bert Swanson

Renewable Energy

Research areas: environment and energy
Department: Humphrey Institute of Public Affairs
Investigators: Dean Abrahamson

Farm Worker Protection Policy

Research areas: environment and energy, other-farm policy
Department: Humphrey Institute of Public Affairs
Investigators: Sandra O. Archibald

Lakes and Landscape History; Climate and Climate Change

Research areas: environment and energy
Department: Limnological Research Center
Investigators: Kerry Kelts

County Geologic Atlases and Regional Hydrogeologic Assessments

Research areas: economic development, environment and energy, land use, educational outreach
Department: Minnesota Geological Survey
Investigators: David L. Southwick and Kenneth L. Harris

Commercial Aquaculture: Implications for Water Quality in Mine Pit Lakes

Research areas: agriculture, environment and energy, industry-aquaculture
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Richard Axler and Michael McDonald

Constructed Wetlands in Northern Minnesota: Development of a Novel Treatment System for Aquaculture Wastes

Research areas: agriculture, environment and energy, industry-aquaculture
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Richard Axler, Michael McDonald and Scott Bridgham

Development of a GPS-Linked Airborne Video System for the Construction of Georeferenced GIS Databases

Research areas: environment and energy, land use
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Carol Johnston

Crayfish and Baitfish Production in Minnesota Rice Paddies: Economic, Resource, and Technologic Aspects

Research areas: agriculture, environment and energy, industry-aquaculture
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Michael McDonald and Carl Richards

ENVIRONMENT AND ENERGY

Development of Biocriteria for Regional Watersheds through Integrated Landscape and Reach-Scale Analyses

Research areas: environment and energy
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Carl Richards, George Host and Lucinda Johnson

Influence of Inorganic Sediment on Stream Ecosystems

Research areas: environment and energy
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Michael C. Swift, Carl Richards and John Gulliver

Direct and Indirect Effects of Climate Change on Boreal Peatland: A Mecocosm Approach

Research areas: other-climate change, environment and energy
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Scott Bridgham, John Pastor, Jan Janssens and Thomas Malterer

The Secondary Metabolites of Eurasian Water Milfoil and Their Relation to Potential Control Agents

Research areas: environment and energy
Department: Plant Biology
Investigators: Florence K. Gleason and Raymond Newman

Minnesota River Water Quality Issues

Research areas: agriculture, environment and energy, land use
Department: Soil Science
Investigators: H.H. Cheng

Sustainable Biomass Electricity Production: Focus Group

Research areas: environment and energy, educational outreach
Department: Vocational and Technical Education, Center for Education in Agriculture and Extension
Investigators: Earl Bracewell and Helen Murray

Waterfowl, Nongame Birds, and Invertebrates Associated with Cultivated Wild Rice Paddies in Northwest Minnesota

Research areas: environment and energy
Department: University of Minnesota, Crookston
Natural Resources Department, Agricultural Management Division
Investigators: Daniel Svedarsh

FAMILY/SOCIAL ISSUES/YOUTH

Patterns of Assimilation and Community Acceptance of Hispanics in Minnesota

Research areas: cultural/racial diversity, family/social issues/youth
Department: Center for Rural Sociology and Community Analysis
Investigators: Dario Menanteau

Social Well-Being in Minnesota Counties

Research areas: economic development, family/social issues/youth
Department: Center for Rural Sociology and Community Analysis
Investigators: Dario Menanteau

Two-Way Transfers in Intergenerational Co-Residence

Research areas: other-housing, economic development, family/social issues/youth
Department: Design, Housing and Apparel
Investigators: Earl W. Morris

Partnership to Address Violence Through Education (PAVE)

Research areas: educational policy, family/social issues/youth
Department: Educational Psychology
Investigators: Mary A. McEvoy

Institutional Caregiving: Impact on Spouse of Alzheimer's Patient

Research areas: health care, family/social issues/youth
Department: Family Social Science
Investigators: Pauline G. Boss

Minnesota Working Family Credit Program

Research areas: educational outreach, health care, family/social issues/youth
Department: Family Social Science
Investigators: Jean Bauer

Bicultural Parent Education Program For Southeast Asian Families

Research areas: educational policy, cultural/racial diversity, family/social issues/youth
Department: Family Social Science and Refugee Studies Center
Investigators: Daniel F. Detzner

Family Policy and Family Well-Being: The Role of Political Culture

Research areas: health care, educational outreach, family/social issues/youth
Department: Family Social Science
Investigators: Shirley L. Zimmerman

Higher Education Center Against Violence and Abuse

Research areas: other-violence, educational policy, family/social issues/youth
Department: Social Work
Investigators: Jeff Edleson and Christine Umbra

The Rise of Ghetto Poverty in the 1980s

Research areas: other-poverty, health care, cultural/racial diversity, family/social issues/youth
Department: Humphrey Institute of Public Affairs
Investigators: Sanders Korenman

FAMILY/SOCIAL ISSUES/YOUTH

Family Recreation Connection Project

Research areas: family/social issues/youth
Department: Kinesiology and Leisure Studies
Investigators: Stuart Schleien, John Rynders and Carla Tabourne

Inclusive Preschool Intergenerational Project

Research areas: family/social issues/youth
Department: Kinesiology and Leisure Studies
Investigators: Stuart Schleien, John Rynders and Carla Tabourne

Community Initiatives to Reduce Youth Access to Tobacco

Research areas: other-tobacco control, other-injury control, health care,
family/social issues/youth
Department: Public Health-Epidemiology
Investigators: Jean Forster

Trends in Child Maltreatment Reporting: Impact on Public Policy

Research areas: health care, family/social issues/youth
Department: Public Health-Health Management and Policy
Investigators: Robert W. ten Bense

Rural Adolescent Health Survey

Research areas: health care, family/social issues/youth
Department: Public Health-Health Management and Policy, General Pediatrics and
Adolescent Health
Investigators: Michael Resnick

Rural School Affiliated Clinics

Research areas: health care, family/social issues/youth
Department: Public Health-Health Management and Policy, General Pediatrics and
Adolescent Health
Investigators: Michael Resnick

Project Resilience: Longitudinal Study of Children With Chronic Illness and Disability

Research areas: health care, cultural/racial diversity, educational outreach,
family/social issues/youth
Department: Public Health-Health Management and Policy, Maternal and Child Health
Investigators: Joan Patterson and Robert Blum

Minnesota Area Geriatric Education Center

Research areas: educational outreach, health care, family/social issues/youth
Department: Public Health-Institute for Health Services Research
Investigators: Robert L. Kane, faculty from Family Social Science

Relative Study: A Comparative Study of Relative and Non-Relative Placement of Children in Out-of-Home Care

Research areas: family/social issues/youth
Department: Social Work; Center For Urban and Regional Affairs
Investigators: Sandy Beeman and Esther Wattenberg

FAMILY/SOCIAL ISSUES/YOUTH

Collaborative Projects for School-Age Children in High Risk Families

Research areas: family/social issues/youth

Department: Social Work; Center For Urban and Regional Affairs

Investigators: Esther Wattenberg

Longitudinal Head Start Family Impact Project

Research areas: educational policy, family/social issues/youth

Department: Sociology

Investigators: Robert K. Leik

HEALTH CARE

Integrating End-of-Life Care in Rural Health Care Systems

Research areas: health care
Department: Center for Biomedical Ethics, Medical School
Investigators: Steven Miles

Minnesota Working Family Credit Program

Research areas: educational outreach, health care, family/social issues/youth
Department: Family Social Science
Investigators: Jean Bauer

Institutional Caregiving: Impact on Spouse of Alzheimer's Patient

Research areas: health care, family/social issues/youth
Department: Family Social Science
Investigators: Pauline G. Boss

Integrating Research, Outreach and Practice in Life and Death Health Care Decision Making Issues

Research areas: health care
Department: Family Social Science
Investigators: Marlene Stum

Family Policy and Family Well-Being: The Role of Political Culture

Research areas: health care, educational outreach, family/social issues/youth
Department: Family Social Science
Investigators: Shirley L. Zimmerman

Probiotics and Health (Useful Bacteria)

Research areas: other—nutrition and health, agriculture, health care
Department: Food Science and Nutrition
Investigators: Linda Brady and Frank Busta

Reducing Colon Cancer Risk With Soybeans

Research areas: agriculture, health care
Department: Food Science and Nutrition
Investigators: Daniel Gallaher

Use of Natural Odorants for Control of Sea Lamprey

Research areas: agriculture, environment and energy, health care
Department: Food Science and Nutrition
Investigators: Peter Sorensen

The Rise of Ghetto Poverty in the 1980s

Research areas: other—poverty, health care, cultural/racial diversity, family/social issues/youth
Department: Humphrey Institute of Public Affairs
Investigators: Sanders Korenman

Cost-Effective Quality: Improving Resident Outcomes

Research areas: health care
Department: Nursing
Investigators: Muriel Ryden and Mariah Snyder

HEALTH CARE

Resuscitation Decisions in Residents With No DNR Order

Research areas: health care
Department: Nursing
Investigators: Muriel B. Ryden

Development of Rectal Diazepam For Home Treatment of Severe Seizures

Research areas: health care
Department: Pharmacy Practice
Investigators: James Cloyd

Community Initiatives to Reduce Youth Access to Tobacco

Research areas: other-tobacco control, other-injury control, health care,
family/social issues/youth
Department: Public Health-Epidemiology
Investigators: Jean Forster

Special Care Units in Minnesota Nursing Homes

Research areas: health care
Department: Public Health-Health Management and Policy
Investigators: Leslie A. Grant

Trends in Child Maltreatment Reporting: Impact on Public Policy

Research areas: health care, family/social issues/youth
Department: Public Health-Health Management and Policy
Investigators: Robert W. ten Benschel

Rural Adolescent Health Survey

Research areas: health care, family/social issues/youth
Department: Public Health-Health Management and Policy, General Pediatrics and
Adolescent Health
Investigators: Michael Resnick

Rural School Affiliated Clinics

Research areas: health care, family/social issues/youth
Department: Public Health-Health Management and Policy, General Pediatrics and
Adolescent Health
Investigators: Michael Resnick

Prenatal Care Utilization in Minnesota: Patterns of Concern and Areas for Improvement

Research areas: health care
Department: Public Health-Health Management and Policy, Maternal and Child Health
Investigators: Greg R. Alexander

Project Resilience: Longitudinal Study of Children With Chronic Illness and Disability

Research areas: health care, cultural/racial diversity, educational outreach,
family/social issues/youth
Department: Public Health-Health Management and Policy, Maternal and Child Health
Investigators: Joan Patterson and Robert Blum

HEALTH CARE

Minnesota Area Geriatric Education Center

Research areas: educational outreach, health care, family/social issues/youth
Department: Public Health—Institute for Health Services Research
Investigators: Robert L. Kane, faculty from Family Social Science

A Public-Private Partnership for a Healthy Minnesota, Medica Foundation

Research areas: health care
Department: Public Health—Institute for Health Services Research
Investigators: Nicole Lurie

Analysis of Primary Care Workforce Options in Rural Areas

Research areas: health care
Department: Public Health—Institute for Health Services Research
Investigators: Ira Moscovice

Analysis of Technical Assistance Needs of AHCPR Rural Managed Care Centers

Research areas: health care
Department: Public Health—Institute for Health Services Research
Investigators: Ira Moscovice

Managed Health Care Reform and Rural Areas

Research areas: health care
Department: Public Health—Institute for Health Services Research
Investigators: Ira Moscovice

Rural Health Networks: Lessons Learned and Future Directions

Research areas: health care
Department: Public Health—Institute for Health Services Research
Investigators: Ira Moscovice

University of Minnesota Rural Health Research Center, Bureau of Health Care Delivery and Assistance

Research areas: health care
Department: Public Health—Institute for Health Services Research
Investigators: Ira Moscovice

INDUSTRY

INDUSTRY

Building Supportive Environments For Basic Training in Greater Minnesota

Research areas: economic development, industry
Department: Agricultural and Applied Economics
Investigators: Wilbur Maki and George Morse

Nonlinear Modeling and Forecasting of Minnesota Economic Data

Research areas: economic development, education, industry
Department: Electrical Engineering
Investigators: Vladimir Cherkassky

An Economic Development Strategy for the Central Minnesota Region

Research areas: economic development, transportation, industry
Department: Humphrey Institute of Public Affairs
Investigators: Lee Munnich

INDUSTRY—AQUACULTURE

Commercial Aquaculture: Implications for Water Quality in Mine Pit Lakes

Research areas: agriculture, environment and energy, industry-aquaculture
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Richard Axler and Michael McDonald

Constructed Wetlands in Northern Minnesota: Development of a Novel Treatment System for Aquaculture Wastes

Research areas: agriculture, environment and energy, industry-aquaculture
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Richard Axler, Michael McDonald and Scott Bridgham

Crayfish and Baitfish Production in Minnesota Rice Paddies: Economic, Resource, and Technologic Aspects

Research areas: agriculture, environment and energy, industry-aquaculture
Department: Natural Resources Research Institute/Center for Water and the Environment
Investigators: Michael McDonald and Carl Richards

INDUSTRY—FOOD / AGRIBUSINESS

Strategic Decision-Making by Managers of Agribusiness Firms

Research areas: agriculture, industry-food/agribusiness
Department: Agricultural and Applied Economics
Investigators: Vernon Eidman

Consumer Preferences for Meat Characteristics

Research areas: industry-food/agribusiness
Department: Agricultural and Applied Economics
Investigators: Jean Kinsey, Beth Senauer and Yvonne Jonk

INDUSTRY

INDUSTRY—FOOD / AGRIBUSINESS *continued*

Structural Change in the Livestock Industry: Preparation of Educational Materials

Research areas: educational outreach, agriculture, industry–food/agribusiness

Department: Agricultural and Applied Economics

Investigators: Bill Lazarus

Shelf Life Testing of Sunflower Kernel

Research areas: agriculture, industry–food/agribusiness

Department: Food Science and Nutrition

Investigators: Zata Vickers and C. Hofland

Development of Genetic Resistance to Disease and Insect Pests

Research areas: agriculture, industry–food/agribusiness

Department: Horticultural Science

Investigators: David W. Davis

Freight Flows 1990

Research areas: economic development, transportation, industry–food/agribusiness

Department: Humphrey Institute of Public Affairs

Investigators: Candace Campbell

INDUSTRY—FOREST PRODUCTS

Impact of Property Taxes on Forest Management

Research areas: land use, industry–forest products

Department: Forest Resources

Investigators: Melvin J. Baughman

Relative Value of Government Incentive Programs for Private Forest Management

Research areas: land use, industry–forest products

Department: Forest Resources

Investigators: Melvin J. Baughman

INDUSTRY—NATIVE PLANT PRODUCTION

Minnetonka Lawn Ordinance: Case Study of Ordinance Development

Research areas: agriculture, land use, industry–native plant production

Department: Horticultural Science/Minnesota Landscape Arboretum

Investigators: Anne M. Hanchek

LAND USE

The Use of Taxation to Control Nitrate Pollution of Groundwater

Research areas: agriculture, environment and energy, land use
Department: Agricultural and Applied Economics
Investigators: Vernon Eidman

Economics of Alfalfa Biomass for Electricity Generation

Research areas: agriculture, economic development, environment and energy, land use
Department: Agricultural and Applied Economics
Investigators: Jerry Fruin (part of work with NSP done with Center for Alternative Plant and Animal Products)

Farmland Sales Price Movements

Research areas: agriculture, land use
Department: Agricultural and Applied Economics
Investigators: Steven J. Taff

Financing Farmland Preservation

Research areas: agriculture, land use
Department: Agricultural and Applied Economics
Investigators: Steven J. Taff

The Sociocultural (Human) Dimensions of Eco-System-Based Management and Stakeholder Participation

Research areas: environment and energy, land use
Department: Anthropology
Investigators: Luther P. Gerlach

A Comprehensive Planning Model for Minnesota Indian Reservations: Bois Forte and Lake Vermillion Pilot Study

Research areas: economic development, land use
Department: Center for Urban and Regional Affairs
Investigators: Thomas L. Anding

Income and Poverty in Minnesota

Research areas: economic development, environment and energy, land use, cultural/racial diversity
Department: Center for Urban and Regional Affairs
Investigators: William J. Craig

Impact of Property Taxes on Forest Management

Research areas: land use, industry-forest products
Department: Forest Resources
Investigators: Melvin J. Baughman

Relative Value of Government Incentive Programs for Private Forest Management

Research areas: land use, industry-forest products
Department: Forest Resources
Investigators: Melvin J. Baughman

Minnesota Housing Atlas Project

Research areas: other-housing, land use
Department: Geography
Investigators: John S. Adams

Study on Takings and Givings: Political and Legal Challenges to Zoning

Research areas: land use
Department: Geography
Investigators: John Adams, Rod Squires, Judith Martin and Ford Runge

Evaluation of Minnesota Land Ownership

Research areas: other-government history, other-land ownership, environment and energy,
land use
Department: Geography
Investigators: Rod Squire

Southeastern Minnesota Karst

Research areas: agriculture, environment and energy, land use
Department: Geology and Geophysics
Investigators: E. Calvin Alexander, Jr.

Minnesota River Implementation

Research areas: agriculture, environment and energy, land use
Department: Geology and Geophysics
Investigators: Bruce Wilson

Center for Urban Ecology (CUE)

Research areas: agriculture, environment and energy, land use
Department: Horticultural Science
Investigators: John Carter, Sue Galatowitsch, Gary Johnson, Vera Krischik, Harold Pellett,
Carl Rosen and John Tester

Minnetonka Lawn Ordinance: Case Study of Ordinance Development

Research areas: agriculture, land use, industry-native plant production
Department: Horticultural Science/Minnesota Landscape Arboretum
Investigators: Anne M. Hanchek

Congestion Pricing Impacts on Land Use

Research areas: land use, transportation
Department: Humphrey Institute of Public Affairs
Investigators: Richard Bolan (part of larger project headed by Lee Munnich)

Reuse of the Army Ammunition Plant in Arden Hills

Research areas: land use, transportation
Department: Humphrey Institute of Public Affairs
Investigators: Richard Bolan

LAND USE

County Geologic Atlases and Regional Hydrogeologic Assessments

Research areas: economic development, environment and energy, land use,
educational outreach

Department: Minnesota Geological Survey

Investigators: David L. Southwick and Kenneth L Harris

Development of a GPS-Linked Airborne Video System for the Construction of Georeferenced GIS Databases

Research areas: environment and energy, land use

Department: Natural Resources Research Institute/Center for Water and the Environment

Investigators: Carol Johnston

Minnesota River Water Quality Issues

Research areas: agriculture, environment and energy, land use

Department: Soil Science

Investigators: H.H. Cheng

TRANSPORTATION

Bulk Commodity Transportation Impacts on the Economy and the Environment

Research areas: agriculture, environment and energy, transportation
Department: Agricultural and Applied Economics
Investigators: Jerry Fruin

Management of the Rural Road System

Research areas: agriculture, economic development, transportation
Department: Agricultural and Applied Economics
Investigators: Jerry Fruin

Leech Lake Indian Reservation Transportation Planning Pilot Study

Research areas: transportation
Department: Center for Urban and Regional Affairs
Investigators: Thomas L. Anding

CTS/MNDOT Study of Transportation Use in Minnesota

Research areas: transportation
Department: Geography
Investigators: John S. Adams

Congestion Pricing Impacts on Land Use

Research areas: land use, transportation
Department: Humphrey Institute of Public Affairs
Investigators: Richard Bolan (part of larger project headed by Lee Munnich)

Reuse of the Army Ammunition Plant in Arden Hills

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Department: Humphrey Institute of Public Affairs
Investigators: Richard Bolan

Freight Flows 1990

Research areas: economic development, transportation, industry—food/agribusiness
Department: Humphrey Institute of Public Affairs
Investigators: Candace Campbell

An Economic Development Strategy for the Central Minnesota Region

Research areas: economic development, transportation, industry
Department: Humphrey Institute of Public Affairs
Investigators: Lee Munnich

Strategic Planning for Transportation/Economic Policy

Research areas: transportation
Department: Humphrey Institute of Public Affairs, State and Local Policy Program
Investigators: Gary DeCramer

OTHER

OTHER—CLIMATE CHANGE

Direct and Indirect Effects of Climate Change on Boreal Peatland: A Mecocosm Approach

Research areas: other—climate change, environment and energy

Department: Natural Resources Research Institute/Center for Water and the Environment

Investigators: Scott Bridgham, John Pastor, Jan Janssens and Thomas Malterer

OTHER—CRIMINAL JUSTICE

Tribal Courts in Minnesota

Research areas: cultural/racial diversity, other—criminal justice

Department: Law School

Investigators: Joan Howland

Minnesota DWI Laws; Minnesota Criminal Justice System DWI Task Force

Research areas: other—criminal justice

Department: Law School

Investigators: Steve Simon

Effectiveness of the Automated Probation Recording System

Research areas: other—criminal justice

Department: Sociology/Anthropology

Investigators: W. A. Fleischman

OTHER—ETHICAL ISSUES IN GENETIC COUNSELING

The Concept of Nondirectiveness in Genetic Counseling

Research areas: other—ethical issues in genetic counseling

Department: Center for Biomedical Ethics (Medical School)

Investigators: Dianne M. Bartels

OTHER—FARM POLICY

Farm Worker Protection Policy

Research areas: environment and energy, other—policy

Department: Humphrey Institute of Public Affairs

Investigators: Sandra O. Archibald

OTHER—GATT/NAFTA

Economic Growth, Trade and Agriculture

Research areas: other—GATT/NAFTA, economic development

Department: Agricultural and Applied Economics

Investigators: Terry L. Roe

OTHER—HOUSING

Two-Way Transfers in Intergenerational Co-Residence

Research areas: other-housing, economic development, family/social issues/youth

Department: Design, Housing and Apparel

Investigators: Earl W. Morris

Minnesota Housing Atlas Project

Research areas: other-housing, land use

Department: Geography

Investigators: John S. Adams

OTHER—INTERCULTURAL NEGOTIATIONS

Intercultural Mediation in Post-Communist Countries

Research areas: education, other-intercultural negotiations

Department: Humphrey Institute of Public Affairs, Conflict and Change Center

Investigators: Tom Fiutak

OTHER—JUDICIAL EDUCATION

Director of the Judicial Trial Skills Training Program

Research areas: other-judicial education, educational outreach

Department: Law

Investigators: Steve Simon

OTHER—LAND OWNERSHIP

Evaluation of Minnesota Land Ownership

Research areas: other-government history, other-land ownership, environment and energy,
land use

Department: Geography

Investigators: Rod Squire

OTHER—LEADERSHIP/PUBLIC POLICY

Leadership for the Common Good: Leadership in Public Policy

Research areas: other-leadership/public policy

Department: Humphrey Institute of Public Affairs

Investigators: John Bryson and Barbara Crosby

Leadership for the Common Good: Women in Leadership

Research areas: other-leadership/public policy

Department: Humphrey Institute of Public Affairs

Investigators: Barbara Crosby

OTHER

OTHER—NUTRITION AND HEALTH

Probiotics and Health (Useful Bacteria)

Research areas: other—nutrition and health, agriculture, health care

Department: Food Science and Nutrition

Investigators: Linda Brady and Frank Busta

OTHER—PARKS/RECREATION

Benefits Based Management for Minnesota State Parks

Research areas: other—parks/recreation, environment and energy

Department: Forest Resources

Investigators: Dorothy H. Anderson

Changes in Recreational Boating Conditions in Twin Cities Metro Area

Research areas: other—parks/recreation, environment and energy

Department: Forest Resources

Investigators: Dorothy H. Anderson

Community Benefits Derived from Existence of State Parks in Minnesota

Research areas: other—parks/recreation, environment and energy

Department: Forest Resources

Investigators: Dorothy H. Anderson

OTHER—POVERTY

Income and Poverty in Minnesota

Research areas: economic development, environment and energy, land use, cultural/racial diversity, other—poverty

Department: Center for Urban and Regional Affairs

Investigators: William J. Craig

Comparative Study of Poverty Concentrations in Eleven American Cities

Research areas: other—poverty

Department: Geography

Investigators: John S. Adams

The Rise of Ghetto Poverty in the 1980s

Research areas: other—poverty, health care, cultural/racial diversity, family/social issues/youth

Department: Humphrey Institute of Public Affairs

Investigators: Sanders Korenman

OTHER—PUBLIC FINANCE

The Organization and Delivery of Local Government Services in Minnesota

Research areas: other—public finance

Department: Agricultural and Applied Economics

Investigators: Beth Honadle

OTHER—PUBLIC FINANCE *continued*

Financing of Public Services in Minnesota

Research areas: other—public finance
Department: Agricultural and Applied Economics
Investigators: Beth Honadle

OTHER—STATE POLICY

An Agenda For State Government

Research areas: other—state policy, educational policy
Department: Humphrey Institute of Public Affairs
Investigators: John Brandl

OTHER—TECHNOLOGY BASED BUSINESS

Role of R&D Organizations in Bilateral Technology Transfer between Western Europe and Red River Trade Corridor

Research areas: other—technology based business, economic development
Department: Humphrey Institute of Public Affairs
Investigators: Candace Campbell

OTHER—TOBACCO CONTROL

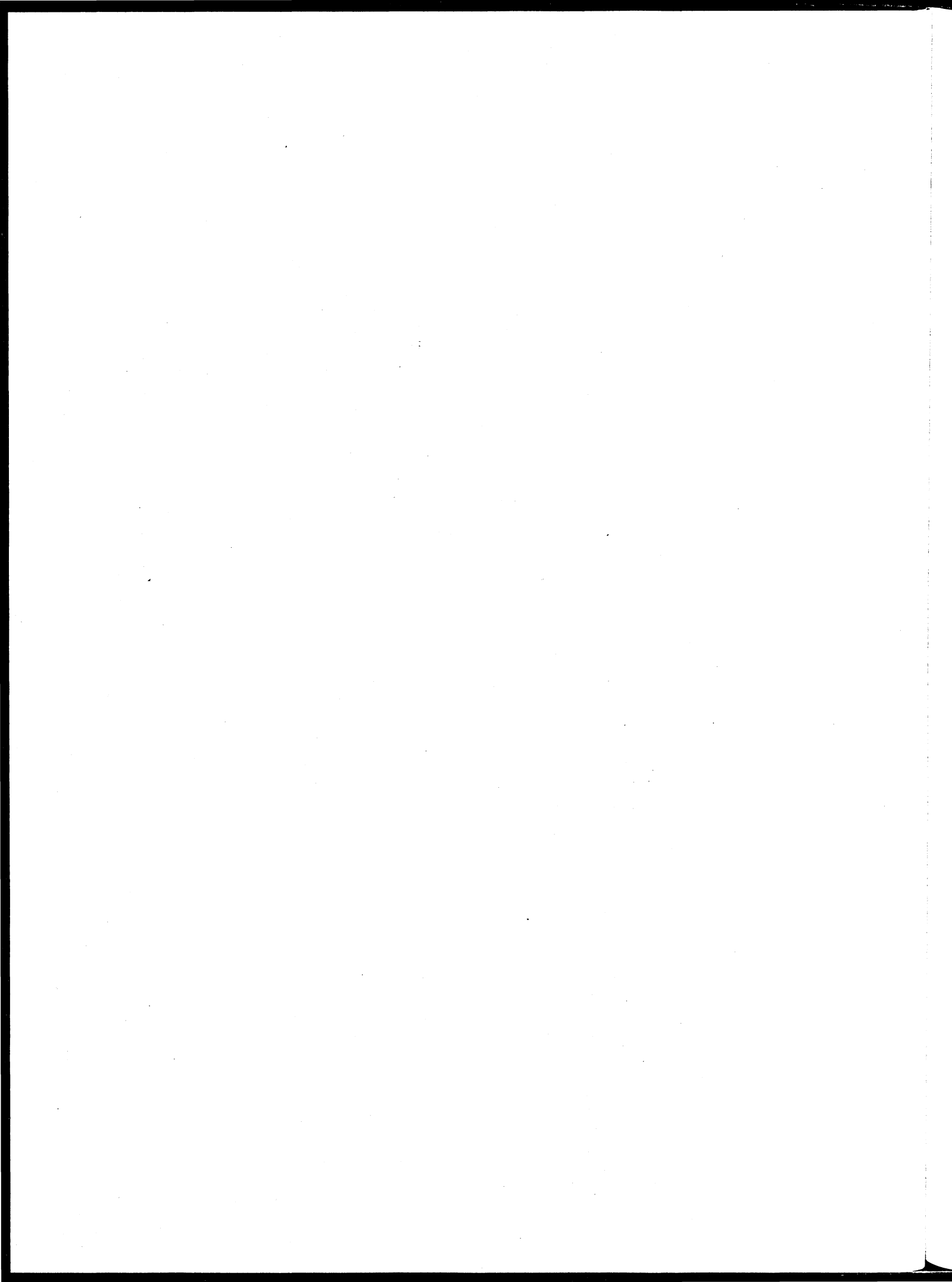
Community Initiatives to Reduce Youth Access to Tobacco

Research areas: other—tobacco control, other—injury control, health care,
family/social issues/youth
Department: Public Health-Epidemiology
Investigators: Jean Forster

OTHER—VIOLENCE

Higher Education Center Against Violence and Abuse

Research areas: other—violence, educational policy, family/social issues/youth
Department: Social Work
Investigators: Jeff Edleson and Christine Umbra



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