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ATTACHMENTS:

. PROJECT LEADERS:

. RESOURCES:

. CRITICAL REVIEW OF NE 162:

ATTACHMENT A: Project Leaders

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Regional economics

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Espey, Molly

Department of Applied Economics and Statistics, University of Nevada, Reno  
Regional Economics

Findeis, Jill \*

Department of Agricultural Economics and Rural Sociology, Pennsylvania State University  
Labor force participation and income.

Fletcher, Robert

Department of Applied Economics and Statistics, University of Nevada, Reno  
Community and fiscal impact model

Foster, Howard

Community Planning and Area Development, University of Rhode Island  
Community impacts

Francis, Joseph \*

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Industrial structure and development

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Goldman, George \*

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Industrial location.

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Community impact

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Henry, Mark

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Regional development and input-output analysis

Holland, David \*

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Community impacts

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Community impact

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Community impacts

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Regional economics

McNamara, Kevin T. \*  
Department of Agricultural Economics, Purdue University  
Industrial location/community economics.

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Industrial location

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Department of Food and Resource Economics, University of Florida  
Regional economics

Renkow, Mitch \*  
Department of Agricultural and Resource Economics, North Carolina State University  
Industrial location

Rochin, Refugio I.\*  
Director, Julian Samora Research Institute, Michigan State University  
Rural labor, Chicano studies

Smith, Stephen M.  
Department of Agricultural Economics and Rural Sociology, Pennsylvania State University  
Industrial diversification and employment development

Stallmann, Judith I.\*  
Department of Agricultural Economics, Texas A&M University  
Rural labor

Stenberg, Peter\*  
United States Department of Agriculture, ERS-RED  
Regional economics and labor markets

~~Thilmany, Dawn.~~ *now located @ Colorado per 1/27/98 memo fr Sommers (ce)*  
Department of Economics, Utah State University  
Rural labor markets, immigration

Tyrrell, Tim\*  
Environmental and Natural Resource Economics, University of Rhode Island  
Regional economics

\*Weber. Bruce

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Community and fiscal impacts

\*Denotes Voting Members for Each Experiment Station

SUMMARY OF RESEARCH ASSIGNMENT  
OBJECTIVES/SUBOBJECTIVES

??  
Colorado  
1/27/98 memo  
from Summers

	1	2	3
Arizona			X
California		X	X
Delaware	X		X
Georgia		X	X
Indiana	X		X
Kentucky			
(Goetz)	X		
(Freshwater)	X		
Michigan		X	
Minnesota			X
Missouri		X	X
Nevada			
(Espey)	X		
(Fletcher)			X
(Harris)			X
New Hampshire			X
New York	X		
North Carolina	X		
Ohio			X
Oregon			X
Pennsylvania			
(Smith)	X		
(Goode)	X		
(Findeis)		X	
Rhode Island			
(Foster)			X
(Tyrrell)			X
South Carolina			
(Barkley)	X		X
(Henry)	X		
USDA-ERS-ED	X		
Utah	X	X	X
Texas			X
Virginia			X
Washington		X	X
Wisconsin			X

ATTACHMENT B: RESOURCES

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*Bohara's*

	SY	PY	TY
Arizona	0.2		
California	0.1		
Delaware	0.3	0.25	
Georgia	0.5		
Indiana	0.5		
Kentucky	0.5		
Michigan	0.1		
Minnesota	0.15		
Missouri	0.75		
Nevada	0.35	0.35	
New York (C)		0.25	
New Hampshire	0.5	0.3	
North Carolina	0.2		
Ohio	0.25		
Oregon	0.20		
Pennsylvania	0.60		
Rhode Island	0.20		
South Carolina	0.25	0.45	0.45
USDA-ERS-ED	0.10		
Utah	0.25		0.5
Texas	0.2		
Virginia	0.2		
Washington	0.2		
Wisconsin	0.1		
TOTALS	6.30	1.6	0.95



## **ATTACHMENT C: Critical Review of NE 162 - Rural Economic Development: Alternatives in the New Competitive Environment**

### **INTRODUCTION**

Since 1992, when it was approved, NE 162 has grown far beyond a regional project in the traditional sense. In 1995, it included researchers from 22 states nation-wide.

The project had two objectives: 1) describe the changing employment structure in rural communities and identify the relationship between changing employment structure and the social and economic well-being of rural residents; and 2) identify the determinants of changes in rural economic structure and investigate the effectiveness of alternative policy instruments in influencing those determinants and, in turn, rural community economic. Overall, the project has made excellent progress on these objectives.

The project has greatly benefited from the contributions of many researchers with broad geographic perspectives and varying subject matter expertise. It has allowed researchers addressing rural economic development in the United States to share data, information, research expertise, methodologies and, generally, to benefit from interaction with colleagues.

### **WORK ACCOMPLISHED**

The progress achieved and the usefulness of the findings from this project are documented in the 1992, 1993, 1994, 1995 and 1996 Preliminary Annual Reports. The scholarly work produced by NE 162 is impressive, as evidenced by the more than 400 regional, state and agency publications, journal articles, abstracts, books chapters, proceedings and miscellaneous publications produced (see attached list). The project's Annual Reports indicate that research results from NE 162 have been used by government officials, legislators, and policy makers in numerous localities (Charleston, SC; Lexington County, SC; several counties in Nevada and Idaho, Douglas County, NH; etc.); states (e.g., Ohio, Virginia, South Carolina, Nevada, Vermont, Kentucky, North Carolina, Pennsylvania, Delaware, Georgia, New Hampshire, Washington, Minnesota, Idaho, Indiana, Maine, etc.); regions (Northeast, South, western Oregon) and national (U.S. Congress, U.S. Executive Departments).

### **OBJECTIVES ACCOMPLISHED AND INCOMPLETE WORK**

#### **Objective 1: Changing Employment Structure and the Impact on Rural Residents**

This project has contributed significantly to the knowledge base on how the new competitive environment has affected the employment structure on rural areas in the United States. Efforts at various agencies have focused on traditional rural industries (agriculture, mining and manufacturing) as well as emerging industries (services, recreation, tourism and retirement). Examples from the project's Annual Reports will serve to illustrate the vast array of information produced by this project. In Washington and Pennsylvania, service sector activity was documented as a viable rural development strategy (1992). In Washington and South Carolina, strong urban-suburban economic linkages were identified (1993). Studies in Maine, Nevada and Pennsylvania indicated that the influx of retirees into rural areas has both positive

benefits (injection of new dollars into the economy) and negative side effects (increased demand for health services) (1993). Using similar methodologies developed by NE-162 researchers, the economic contribution of agriculture to state economies was documented in several states including Delaware, Idaho, Virginia and California (1994). The importance of off-farm employment opportunities and factors affecting off-farm work decisions were documented in Virginia and Indiana (1995). The economic structure of many rural communities have changed dramatically over the last five years in response to a variety of national and international forces. It is important that future work continue the effort to identify these changes.

## Objective 2: Determinants of Changes on Rural Economic Structure

Per the NE 162 Project statement, work on this objective focused on four factors: 1) community infrastructure, 2) human capital, 3) local government services and 4) natural resources. Again, examples from the Annual Reports indicate the accomplishments.

Community Infrastructure: The role of transportation and the importance of transportation planning in coordination with related land use and economic development planning was documented in Rhode Island, South Carolina and Kentucky (1992, 1993 and 1994).

Human Capital: The role of education in rural development, the efficiency of schools and the effectiveness of schools in enhancing human capital were addressed in varying degrees in Virginia, Kentucky, Indiana, Georgia, Texas and Maine (1992, 1993, 1994 and 1995). Underemployment in different types of industries was documented in Pennsylvania (1993).

Local Government Services: Efforts in Pennsylvania and New Hampshire documented the interdependencies between local government finances and community economic development (1992). In Virginia, information was provided to local government officials to improve decisions regarding a variety of economic development projects including infrastructure, industrial incentives, convention facilities, and waste decisions (1993). The efficiency of water systems in Nevada were determined (1993). A variety of issues surrounding the provision of local government services and taxation were addressed in Idaho (uniformity of state and federal tax codes), Nevada (efficiency of rural water systems), New Hampshire (impact of property values on tax revenues), Oregon (impact of property tax cuts), Washington (analysis of tax system) and Wisconsin (efficient production of local government services) (1994). Research in Texas documented that employment opportunities in a community affect the incentives of students to dropout or stay in school (1995). Research results and methodologies have been shared by NE-162 researchers to investigate applicability of results to other regions of the nation.

Natural Resources: The impact of Forest Service and Bureau of Land Management land disposition policies on the ability of county governments' to provide services were determined in Idaho (1992). In Utah, work focused on identifying the characteristics of wilderness tourists and the use of natural resources to promote tourism as an economic development strategy (1993). The economic costs and benefits of restricting access to natural resources were estimated in Minnesota (Boundary Waters Canoe Area), New Hampshire (Parker River National Wildlife Refuge) and Oregon (timber land in the eastern and western regions) (1993, 1994 and 1995).

Additional work to be done includes: identifying the impacts of emerging national and international economic forces (e.g., environmental concerns, land use conflicts, federal and state budget reductions, etc.) on rural community economic structure and identifying similarities in impacts across geographic regions to provide input to national policy makers.

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\* Denotes multi-state authors on NE-162 project.

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- \* Holland, D., B. Weber, and E. Waters. "Modeling the Economic Linkages Between Core and Periphery Regions: The Portland Oregon Trade Area." In Rural-Urban Interdependence and Natural Resource Policy, Western Rural Development Center, Oregon State University, Corvallis, Oregon, 1996, pp. 13-32.
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