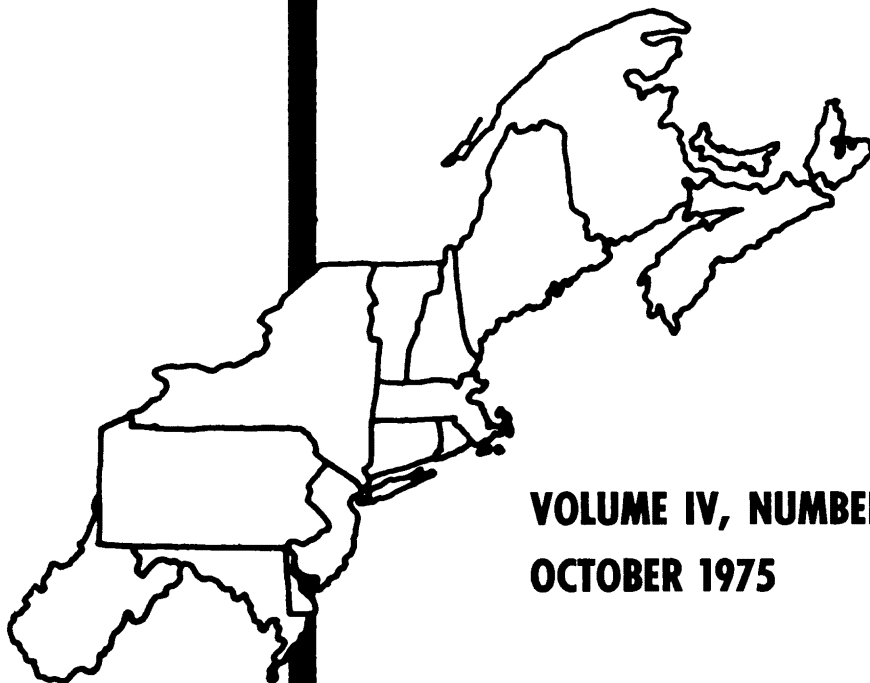


JOURNAL OF THE

**Northeastern
Agricultural
Economics
Council**



**VOLUME IV, NUMBER 2
OCTOBER 1975**

NORTHEASTERN AGRICULTURAL ECONOMICS COUNCIL

Purpose

The purpose of the Council shall be to stimulate and promote education and research on economic and social problems related to production, marketing and consumption of agricultural products and the interrelationships of agriculture and the rest of the economy.

The Council is officially affiliated with the American Agricultural Economics Association and its President serves as an ex officio member of the board of directors of the AAEA.

Membership

Any person interested in the purpose of the Council may become a member by payment of an annual dues of \$5.00. Any student enrolled in college may become a member by payment of an annual dues of \$3.00. Distinguished Life Memberships are given to those members of the association who have contributed outstanding service to the Council.

Officers 1975-76

President	<i>Frederic O. Sargent</i> , University of Vermont
President-Elect	<i>Donald G. Stitts</i> , University of Connecticut
Secretary-Treasurer	<i>Daymon Thatch</i> , Rutgers University
Editor	<i>Wallace C. Dunham</i> , University of Maine

Orono, Maine

October, 1975

PROCEEDINGS ISSUE
JOURNAL OF THE
NORTHEASTERN AGRICULTURAL ECONOMICS COUNCIL

TABLE OF CONTENTS

	<u>Page No.</u>
INVITED PAPER	
World Food Problems <i>D. Gale Johnson</i>	1
PRODUCTION AND MARKETING	
Impact of Alternative Trade Policies on Dairy Farm Net Cash Income, 1975-80 <i>G. E. Frick, J. P. Davulis, and B. M. Buxton</i>	23
Marketing Margins for McIntosh and Red Delicious Apples in Connecticut <i>Jose Montero and Donald G. Stitts</i>	32
Can We De-Mechanize Agriculture? <i>Earle E. Gavett</i>	47
Rationalizing Milk Marketing Orders in New England <i>Fred C. Webster</i>	58
Varietal Mix Decision Framework for Massachusetts Apple Growers <i>Cleve E. Willis and William L. Hanlon</i>	68
A Systematic Approach to Agricultural Enterprise Data <i>Ronald D. Krenz</i>	81
An Analysis of Small Holder Objectives in the Dominican Republic <i>Margaret Andrews</i>	91

COMMUNITY DEVELOPMENT

Town Plan Analysis System <i>Frederic O. Sargent</i>	99
Solid Waste Management for Rural Areas -- A Quadratic Programming Approach <i>Robert D. Perlack and Cleve E. Willis</i>	108
Health Care Contact in Rural Areas of the Northeast: A Progress Report <i>Charles O. Crawford, Donn A. Derr, Nelson LeRay, and Edmund F. Jansen, Jr.</i>	120
Community Services: Contrasts Between Resident and Non- resident Landowners in the Adirondack Regions of New York <i>Robert G. Craig and Harry P. Mapp, Jr.</i>	132
Natural Resources as Related to Community Development-- A Preliminary Analysis-- <i>Dale Colyer</i>	143
Factors Affecting Poverty in the Northeast, 1960-1970 <i>Richard N. Boisvert</i>	151
Factors Associated with the Variations in Hourly Wage Rates Among a Sample of Low Wage Workers in Rural Delaware <i>Richard Bieker.</i>	163

RESOURCE AND ENVIRONMENTAL ECONOMICS

Costs of Altering the Quality of Water in Cayuga Lake by Reducing Phosphorus Losses from a Rural Watershed <i>George L. Casler and James J. Jacobs.</i>	174
Economics of Compensation in Development Rights Programs <i>Barry C. Field and Jon M. Conrad.</i>	185
Costs and Returns of Fishermen in the Massachusetts Inshore Lobster Fishery <i>J. M. Gates and J. M. D'Eugenio</i>	195

RESOURCE AND ENVIRONMENTAL ECONOMICS
(CONTINUED)

A Framework for Measuring the Economic Impact of Alternative
Pollution Control Policies: An Application to the Egg
Producing Industry
P. Geoffrey Allen 211

Farmers' Capital Expenditures, Who Benefits?
Gerald E. Schluter and Thomas A. Niles. 225

In-Plant Costs for a Small Rural Town Recycling Plant
Richard Tichenor and Edmund F. Jansen, Jr.. 236

Land Treatment of Municipal Wastewater: A Cooperative
Approach to Management
Lee A. Christensen. 246

Comparative Costs of Municipal Wastewater
Treatment
C. Edwin Young. 258

BUSINESS MEETING

President's Remarks
Kenneth D. McIntosh 267

Minutes of Annual Business Meeting 271

Distinguished Member Award 275