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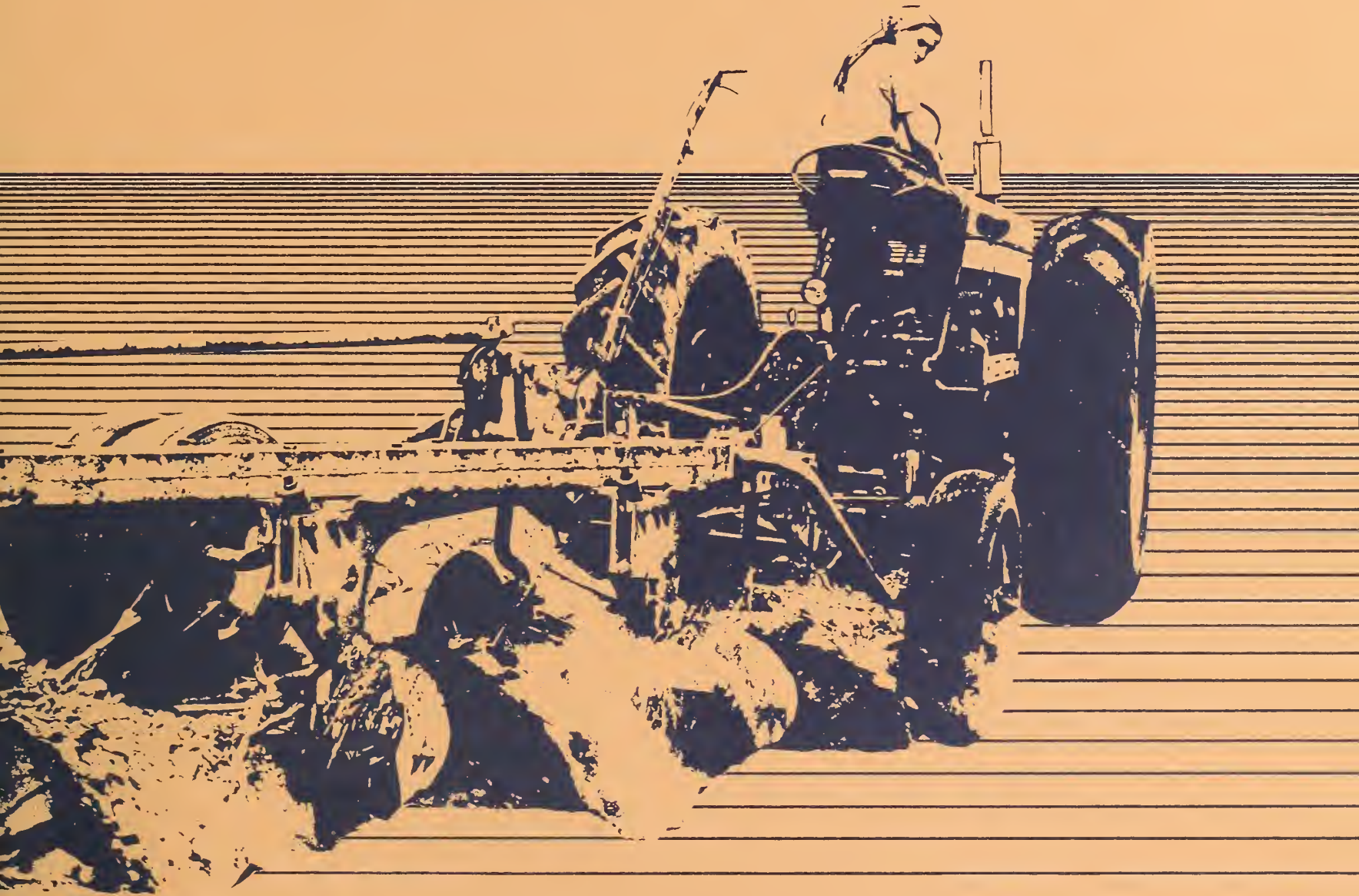
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Inputs Used in U.S. Farm Production

A Bibliography of Selected Economic Studies, 1950-80

Thomas Spinks
Dale C. Dahl



INPUTS USED IN U.S. FARM PRODUCTION: A BIBLIOGRAPHY OF SELECTED ECONOMIC STUDIES, 1950-80. By Thomas Spinks and Dale C. Dahl. National Economics Division; Economics and Statistics Service; U.S. Department of Agriculture. Bibliographies and Literature of Agriculture No. 19.

ABSTRACT

This bibliography covers economic research reports prepared during 1950-80 on the inputs used in farm production. Categories of inputs include farm supply cooperatives, feed, fertilizer, finance, labor, land, machinery and buildings, pesticides, petroleum, seed, and water.

Keywords: Farm inputs, Input research, Input markets, Production inputs, Feed, Fertilizer, Finance, Labor, Machinery, Pesticides, Petroleum, Seed, and Water.

PREFACE

This bibliography, one of the several publications developed as part of the work of the North Central Regional Research Committee (NCR-117), covers reports on inputs used in farm production. NCR publications are designed to meet one or more of these objectives: provide a survey of current literature on subjects of interest of the committee, indentify specific research objectives which may serve as guides to future research proposals, and produce reports and, if appropriate, regional publications which contain reviews of studies available or a set of summary recommendations regarding areas of research.

Research funding for this bibliography was provided by the Economics and Statistics Service of the U.S. Department of Agriculture. The literature search was conducted at the University of Minnesota's Agriculture Experiment Station.

ACKNOWLEDGMENTS

The authors wish to recognize the editorial direction of Winston W. Grant research specialist and extention economist in legal affairs, agricultural and applied economics departments, the University of Minnesota, and the useful suggestions of the NCR-117 Committee members listed below. Alaska, Wayne C. Thomas; Illinois, Dennis Conley; Indiana, David A. Bessler; Iowa, Roger Dahlgren; Kansas, John B. Riley; Minnesota, Dale C. Dahl; Missouri, Gary Devino; Nebraska, Dale Anderson; North Dakota, Donald F. Scott; Ohio, Michael Woolverton; South Dakota, Richard Shane; Wisconsin, William D. Dobson; U.S. Department of Agriculture, Science and Education Administration, Cooperative Research, Roland R. Robinson; U.S. Department of Agriculture, Economics and Statistics Service, Robert Reinsel; U.S. Department of Agriculture, Science and Education Administration, Cooperative Research, Paul J. Fitzgerald; and Administrative Advisor, Walter L. Fishel (Ohio).

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INTRODUCTION

This bibliography, an expanded and updated version of "Purchased Farm Input Markets in the United States, 1950-71: a Bibliography of Economic Studies," now includes inputs for agriculture (such as water, labor, and land) that have not been traditionally defined as purchased inputs. In addition, the category of petroleum has been expanded to include selected general energy studies. The studies in this publication focus on the supply, demand, price, and market structure for various inputs. The data sources searched include:

1. Journal of Economic Literature, American Economic Association, Pittsburg, Pennsylvania, 1970-79.
2. Books in Print, R.R. Bowker Company, New York, 1979.
3. Monthly Catalog of U.S. Government Publications, Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 1970-79.
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5. Agriculture Finance Bibliography, Federal Reserve System, Division of Research and Statistics, Washington, D.C., November 1978.
6. University of Minnesota Libraries.
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8. Master's Theses Abstracts, University Microfilms, Ann Arbor, Michigan, 1970-79.

9. Lists of department publications and masters theses from college and university departments of agricultural economics (not all departments included).
10. Catalog of the National Agricultural Library, Phoenix, Arizona, The Oryx Press for the U.S. Department of Agriculture, through November 1979.

This bibliography has been organized by input category and type of publication. Each of the 12 sections covers an individual input, while subsections list the studies by type of publication. The inputs are listed alphabetically as follows: Labor, land, machinery and buildings, pesticides, petroleum, seed, and water. The types of publications are listed under each section as follows: Books, journal articles, U.S. Department of Agriculture, experiment stations, Ph.D. dissertations, M.S. theses, ongoing Current Research Information Systems (CRIS) projects, and recently completed Current Research Information System (CRIS) projects. We do not claim to include all studies pertaining to input markets in agriculture, although each source of data was thoroughly searched.

The authors wish to thank the staffs of colleges and universities that participated in compiling this bibliography by furnishing recent publication lists as well as lists of master's theses and Ph.D. dissertations completed from 1950 to 1979.

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14. Kniep, M. D. "A Financial Data Summary and Analysis System for the Farm Supply Firm." M.S. Thesis. Univ. Neb., 1974.
15. Lane, George Henry. "The Farm Supply Market of Hamblen County, Tennessee." M.S. Thesis. Univ. Tenn., 1960.
16. Langley, L. H., Jr. "An Input-Output Analysis of Georgia's Agribusiness Industry." M.S. Thesis. Univ. Ga., 1972.
17. Lippke, L. A. "Interindustry Analysis of the Economy of Northeast Texas Emphasizing Agriculture." M.S. Thesis. Tex. A & M, 1971.
18. Lumpkin, L. A. "Analysis of Market Structure and Performance in the Farm Supply and Food Retailing Industries Using Simulation Techniques." M.S. Thesis. Purdue Univ., 1974.
19. Menegay, M. R. "Communication Patterns of 100 Tennessee Farm Supply Dealers." M.S. Thesis. Univ. Tenn., 1973.
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29. Wiebe, Jacob Edwin. "Implications of the Changing Input Mix on Selected Type of Farming Situations." M.S. Thesis. Kans. State Univ., 1967.
30. Yadav, R. P. "An Econometric Analysis of the Demand for Selected Agricultural Inputs in Oregon." M.S. Thesis. Oreg. State Univ., 1972.

Ongoing Current
Research Infor-
mation System
(CRIS) Projects

1. Andrews, R. A. "Impact of the Changes in Marketing Channels on the New Hampshire Agricultural Sector." Univ. N.H., Durham, N.H. Period: 11-6-73 to 9-30-80. Objectives: Describes service areas of farm supply marketing firms; relates farm firms to input and product marketing firms; develops flow of farm products through market channels and evaluates assembly and distribution functions; enumerates marketing practices that influence market availability; and evaluates adequacy of markets and market channels for meeting current and prospective needs.
2. Folwell, R. J. "Impact of Changes in World Food Supply-Demand Conditions Upon Selected Agricultural Factor Markets." Wash. State Univ., Pullman, Wash. Period: 7-1-74 to (open). Objectives: To develop a set of projections to the year 1980 by selected commodity categories of the agricultural outputs of Washington based on current U.S. and foreign supply and demand conditions for food and fiber; estimate input usage to achieve the projected agricultural production, considering probable price and availability of farm inputs; determine the adaptability of the existing agricultural input market organization to meet

projected changes in agricultural output and, in the case of inadequate input market structure, to suggest alternative organization.

3. Greer, R. C. "Effects of Market Structure and Organization Changes and Regulation on Producer Buying and Selling." Mont. State Univ., Bozeman, Mont. Period: 2-18-77 to 9-30-82. Objectives: Describes the changing organization, structure, and functions of selected agricultural input and output markets in Montana; identifies and evaluates alternative producer policies for buying selected agricultural inputs and selling selected agricultural outputs under conditions of risk and uncertainty; and assesses the impact of various regulations on the structure and organization of agricultural input and output markets in Montana, producer buying and selling policies, and selected agricultural product flows.
4. _____ . "Impact of Changes in World Food Supply-Demand Upon Selected Agricultural Factor Markets." Mont. State Univ., Bozeman, Mont. Period: 7-1-74 to (open). Objectives: Estimates input usage to achieve projected agricultural production, considering probable price and availability of farm inputs; and determines adaptability of existing agricultural input market organization to meet projected changes in agricultural output.
5. St. Clair, J. S. "Impact of Changes in World Food Supply-Demand Upon Selected Agricultural Markets." Univ. Wyo., Laramie, Wyo. Period: 7-1-74 to (open). Objectives: Projects agricultural output to the year 1980; estimates input usage needed to achieve projected agricultural production; and determines adaptability of the existing agricultural input market organization to meet projected changes in agricultural output.

Completed Current
Research Infor-
mation System
(CRIS) Projects

1. Anderson, D. G. "Impact of Changes in World Food Supply-Demand Upon Selected Agricultural Markets." Univ. Neb., Lincoln, Neb. Period: 8-27-71 to 6-30-77. Objectives: Estimated input usage to achieve projected agricultural production based on probable price and availability of farm inputs; determined the adaptability of the existing agricultural input market organization to meet projected changes in agricultural output; and suggests alternative organization in case input market structure is found to be inadequate.

2. Carman, H. F. "Impact of Changes in World Food Supply-Demand Conditions Upon Selected Agricultural Factor Markets" Univ. Calif., Davis, Calif. Period: 7-1-69 to 9-30-77. Objectives: Developed a set of projections to the year 1980 by broad (selected) commodity categories of the agricultural output of the West, taking into consideration current U.S. and foreign supply and demand conditions for food and fiber; estimated input usage needed to achieve the projected agricultural production, considering probable price and availability of farm inputs; determined the adaptability of the existing agricultural input market organization to meet projected changes in agricultural output; and suggests alternative organization in case input market structure is found to be inadequate.
3. Dahl, R. P. "Adequacy and Cost Effectiveness of Bulk Commodity Transportation Systems." Univ. Minn., St. Paul, Minn. Period: 4-6-77 to 10-5-79. Objectives: Determined the adequacy of the transportation system for outbound shipments of grains, soybeans, and soybean products and for obtaining and distributing agricultural inputs, such as fertilizer and fuel; investigated potential shifts in marketing patterns or sources of production inputs due to changes in transportation costs, Government regulations, transportation facilities, terminals, and ports; and recommended appropriate policy and investment changes from the private and public sectors.
4. Devino, G.T. "Organization and Management of Farm Supply Firms." Univ. Mo., Columbia, Mo. Period: 1-24-72 to 9-30-78. Objectives: Identified and evaluated the potential impact on firms of changes in structure and operating methods of farm supply industries; and developed and tested management practices and procedures for farm supply industry firms.
5. Long, R. B. "Impact of Changes in World Food Supply-Demand Demand Conditions Upon Selected Agricultural Factor Markets." Univ. Idaho, Moscow, Idaho. Period: 1-1-74 to 9-30-77. Objectives: Estimated input usage needed to achieve projected agricultural production based on probable price and availability of farm inputs.
6. Payne, W. F. "Impact of Changing Transportation Systems on Grain and Farm Supply Marketing Firms." S. Dak. State Univ., Brookings, S. Dak. Period: 7-1-74 to 9-30-77. Objectives: Estimates the quantities of grain that will move through South Dakota country

elevators and commercial channels in 1980; estimate South Dakota's demand for feedgrains, processed feed, and fertilizer in 1980; project alternate changes in grain transportation for South Dakota; and determine the economic feasibility of alternative modes of grain movement from producers to shipment destinations.

7. Peterson, R. D. "Impact of Changes in World Food Supply-Demand Conditions Upon Selected Agricultural Factor Markets." Colo. State Univ., Fort Collins, Colo. Period: 7-1-70 to 6-30-77. Objectives: Developed a set of projections to the year 1980 by broad (selected) commodity categories of the agricultural output of Colorado as they relate to the West, taking into consideration current U.S. and foreign supply and demand conditions for food and fiber; estimated the agricultural input usage in Colorado as it relates to the West, to achieve projected agricultural production, consider probable price and availability of farm inputs; determined the adaptability of Colorado's existing agricultural input market organization as it relates to the West, to meet projected changes in agricultural output; and suggests alternative organization in case input market structure is found to be inadequate.

FARM SUPPLY COOPERATIVES

Books

1. Abrahamsen, Martin Abraham, and Claude L. Scroggs. Agricultural Cooperation; Selected Readings. Minneapolis, Minn.: Univ. Minn., 1957.
2. Roy, Ewell Paul. Cooperatives Today and Tomorrow. Danville, Ill.: The Interstate Printers & Pub. Inc., 1964.
3. Valko, Laszlo. International Handbook of Cooperative Legislation. Pullman: State College Wash., 1954.

Journals

1. Capel, G. L. "The Role of Cooperatives in the Input Industries: Discussion," American Journal of Agricultural Economics, Vol. 52, No. 5 (Dec. 1970), pp. 693-94.
2. Dahl, W. A., and W. D. Dobson. "An Analysis of Alternate Financing Strategies and Equity Retirement Plans for Farm Supply Cooperatives," American Journal of Agricultural Economics, Vol. 58, No. 2 (May 1976), pp. 198-208.

3. Garoian, L., and G. Cramer. "Merger Component Growth of Agricultural Cooperatives," American Journal of Agricultural Economics, Vol. 50, No. 5 (Dec. 1968), pp. 1472-82.
4. Helmberger, P. "Future Roles for Agricultural Cooperatives," Journal of Farm Economics, Vol. 48, No. 5 (Dec. 1966), pp. 1427-34.
5. Knutson, R. D. "Cooperative Strategies in Imperfectly Competitive Market Structures," American Journal of Agricultural Economics, Vol. 56, No. 5 (Dec. 1974), pp. 904-12.
6. Maxwell, R. E., D. J. Ellison, and H. Jackson. "Farm Supply Cooperatives in Arkansas," Arkansas Farm Research, Vol. 21, No. 5, (Sept./Oct. 1972).
7. Swank, C. W. "The Role of Cooperatives in the Input Industries: Discussion," American Journal of Agricultural Economics, Vol. 52, No. 5 (Dec. 1970), p. 693.

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1. Abrahamsen, M. A. Adjusting Farm Supply Cooperatives to Members' Needs in the 1970's, FCS 47, U.S. Dept. Agr., Farmer Coop. Serv., Apr. 1965.
2. _____ . Business Research of Regional Farm Supply Coops. GR-13. U.S. Dept. Agr., Farmer Coop. Serv., Feb. 1955.
3. _____ . Purchasing Cooperatives: An Essential Tool for the Modern Farmer. FCS Info. 5. U.S. Dept. Agr., Farmer Coop. Serv., Sept. 1957.
4. _____ . Recent Trends in Business Research Activities of Regional Farm Supply Cooperatives. GR-26. U.S. Dept. Agr., Farmer Coop. Serv., Feb. 1957.
5. _____ . Operations of Major Regions' Purchasing Cooperatives, 1941-1951. Circ. C-148. U.S. Dept. Agr., Farm Credit Admin., Dec. 1952.
6. Bailey, J. M. Inventory Management by Selected Retail Farm Supply Coops, Area I. Michigan, Indiana, Ohio and Pennsylvania. GR-38. U.S. Dept. Agr., Farmer Coop. Serv., Jan. 1958.

7. _____ . Inventory Management by Selected Retail Farm Supply Coops Area II. R-37. U.S. Dept. Agr., Farmer Coop. Serv., July 1958.
8. _____ . Inventory Management by Selected Retail Farm Supply Coops, Area V. Tennessee, Alabama, Mississippi and Arkansas. R-39. U.S. Dept. Agr., Farmer Coop. Serv., Mar. 1959.
9. _____ . Inventory Management by Selected Retail Farm Supply Cooperatives, Area VI. New York, New Jersey, Virginia, West Virginia, North Carolina and Georgia. GR-70. U.S. Dept. Agr., Farmer Coop. Serv., Jan. 1960.
10. _____ . Credit Control in Selected Retail Farm Supply Cooperatives, Area VI. New York, New Jersey, Virginia, West Virginia, North Carolina and Georgia. GR-71. U.S. Dept. Agr., Farmer Coop. Serv., Feb. 1960.
11. _____ . Credit Control in Selected Retail Farm Supply Cooperatives, Area II. Washington, Oregon, Idaho and Utah. R-36. U.S. Dept. Agr., Farmer Coop. Serv., May 1958.
12. _____ . Two Supply Cooperatives Serving Low-Income Farmers: A Preliminary Analysis in Appalachia. GR-138. U.S. Dept. Agr., Farmer Coop. Serv., Nov. 1966.
13. _____ . Farm Supply Operations of Cooperative Gins and Elevators in Texas. GR-92. U.S. Dept. Agr., Farmer Coop. Serv., July 1961.
14. Eichers, T.R. Credit Control in Selected Retail Supply Cooperatives, Area III. Wisconsin, Minnesota, North Dakota, South Dakota and Northern Iowa. GR-43. U.S. Dept. Agr., Farmer Coop. Serv., June 1958.
15. _____ . Credit Control in Selected Retail Farm Supply Cooperatives, Area IV. Kansas, Nebraska, Missouri, Iowa, Illinois and Southern Wisconsin. GR-57. U.S. Dept. Agr., Farmer Coop. Serv., Apr. 1959.
16. _____ . Inventory Management by Selected Retail Farm Supply Cooperatives, Area III. Minnesota, Wisconsin, North Dakota, South Dakota and Northern Iowa. GR-50. U.S. Dept. Agr., Farmer Coop. Serv., Sept. 1958.

17. _____ . Inventory Management by Selected Retail Farm Supply Cooperatives, Area IV. Kansas, Nebraska, Missouri, Iowa and Illinois. GR-66. U.S. Dept. Agr., Farmer Coop. Serv., Oct. 1959.
18. Foschia, John M. Midsize Farm Supply Cooperatives: Characteristics and Growth Strategy. RP-45. U.S. Dept. Agr., Econ. Stat. Coop. Serv., Farmer Coop. Serv., Mar. 1978.
19. Gessner, A. L., and K. B. Gardner. Trends in Growth of Farm Cooperatives 1959-1960. GR-110. U.S. Dept. Agr., Farmer Coop. Serv., Mar. 1963.
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21. Kraenzle, C. A., and others. Where are Cooperatives in the Farm Supply Environment? FCS-44(7). U.S. Dept. Agr., Farmer Coop. Serv., Oct. 1977.
22. Mather, J. W. Handbook on Major Regional Cooperatives Handling Supplies, 1964 and 1965. GR-140. U.S. Dept. Agr., Farmer Coop. Serv., Mar. 1967.
23. _____ . Handbook on Twenty Major Regional Cooperatives Handling Supplies 1968-70. RR-20. U.S. Dept. Agr., Farmer Coop. Serv., Sept. 1971.
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25. _____ . Trends and Practices of Farm Supply Cooperatives. U.S. Dept. Agr., Farmer Coop. Serv., 1954.
26. U.S. Department of Agriculture, Farmer Cooperative Service. Supply Operations of Major Regional Cooperatives 1974-75. RR-40, July 1977.
27. _____ , Economics, Statistics, and Cooperatives Service. Growth of Cooperatives in Seven Industries. RR-1, July 1978.
28. Wass, G. J. Financial Problems of Purchasing Cooperatives. MR-157. U.S. Dept. Agr., Farm Credit Admin., Feb. 1952.

29. Williams, R., and L. Biser. Analysis of Emerging Cooperatives (Financed by F.H.A.) 1965-1970. FCS-Info.-85. U.S. Dept. Agr., Farmer Coop. Serv., July 1972.

Experiment Stations

1. Blair, P. T. The Patron Credit Operations of Farmer Purchasing And Marketing Cooperatives. Miss. Agr. Exp. Sta., Agr. Econ., MR-49, Mar. 1966.
2. Garoian, L., and G. L. Cramer. Cooperative Mergers: Their Objectives, Successes and Impact on Growth. Oreg. Agr. Exp. Sta., Bull. 605, Feb. 1969.
3. Gries, G. E. Financial Structure of Local Missouri Farm Supply Cooperatives. Columbia Agr. Exp. Sta., Spec. Rep. 157, Aug. 1973.
4. Indiana Agricultural Experiment Station. Open Account Credit Policy of Farm Suppliers. Ind. Agr. Exp. Sta., Mimeo EC 138, Nov. 1956.
5. Jenkins, L. P. Operating Policies and Practices of Cooperative Purchasing Associations in Mississippi. Miss. Agr. Exp. Sta., Bull. 571, Mar. 1952.
6. Knudtson, A. C., and E. F. Koller. Accounts Receivable Credit in Minnesota Farm Supply Cooperatives. Minn. Agr. Exp. Sta., Bull. 430, May 1955.
7. Nandi, K. K., and D. N. Harrington. Credit Programs of Missouri Farm Cooperatives. Mo. Agr. Exp. Sta., Bull. 799, July 1965.
8. Roy, E. P. Economic Potential for a State Federated Cooperative Handling Farm Supplies. La. Agr. Exp. Sta., DAE Circ. 299, Oct. 1961.
9. _____ . Farm and Agribusiness Cooperative Corporations in Louisiana, 1958. La. Agr. Exp. Sta. DAE Circ. 222, May 1958.
10. Rudel, R. K., and R. G. Walsh. Effect of Vertical Integration on Profitability of Ammonia and Solution Fertilizer Retailing by Cooperatives, Neb. Agr. Exp. Sta., SB 512, Feb. 1970.
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12. Thomson, J. C., and G. H. Glover. A Planning Guide for a Local Farmer Purchasing Cooperative. Ga. Agr. Exp. Sta., Res. Bull. 16, Sept. 1967.
13. Valko, L. Farmer Cooperative Purchasing Associations in Washington. Wash. Agr. Exp. Sta., Circ. 370, July 1960.

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2. Badr, Mahmoud Mahmoud. "Economics and Growth of Marketing and Purchasing Cooperative Firms in the United States." Ph.D. Dissertation. Okla. State Univ., 1968.
3. Barth, Glenn Richard. "Urban Consumer Attitudes Toward Farm Supply Cooperatives." Ph.D. Dissertation. Mont. State Univ., 1966.
4. Beierlein, J. G. "Optimizing the Capital Structure of a Farmer Cooperative Using a Member Oriented Analysis." Ph.D. Dissertation. Purdue Univ., 1977.
5. Cramer, Gail Latimer. "An Economic Analysis of the Merger Component in The Growth of Agricultural Cooperatives." Ph.D. Dissertation. Oreg. State Univ., 1968.
6. Dahl, W. A. "Alternative Financial Management Stratagies for Local Farm Supply Cooperatives in Wisconsin." Ph.D. Dissertation. Univ. Wis., 1975.
7. Dickey, Ronald Wayne. "An Analysis of Financial Management of Agricultural Cooperative Business Organizations in Ohio and Recommendations for Improvement." Ph.D. Dissertation. Ohio State Univ., 1966.
8. Fischer, John. "The Economics of Cooperative Purchasing of Farm Supplies in Tennessee, With Emphasis on the Financial Aspects." Ph.D. Dissertation. Univ. Wis., 1955.
9. Koszarek, T. V. "Market Performance of Minnesota Retail Farm Supply Cooperatives." Ph.D. Dissertation. Univ. Minn., 1974.

10. Lough, H. W. "The Relationship Between Farm Supply Cooperatives` Economic Performance and Their Organizational Power Centers: Levels of Motivation to Achieve Objectives." Ph.D. Dissertation. Oreg. State Univ., 1971.
11. Nelson, J. L. "Taxation and Other Economic Effects on the Capital Structure of Farm Supply Cooperatives." Ph.D. Dissertation. N.C. State Univ., 1974.
12. Taylor, Norman Eugene. "The Midland Cooperative Wholesale, Inc., Its History and Analysis." Ph.D. Dissertation. Univ. Minn., 1956.

M.S. Theses

1. Bailey, John M. "The Capital Structure of Agricultural Cooperatives in Utah, 1953." M.S. Thesis. Utah State Univ., 1955.
2. Bagley, William B. "Wyoming Marketing, Supply and Bargaining Organizations Operated by Farmers and Ranchers for the Benefit of Members During 1961." M.S. Thesis. Univ. Wyo., 1964.
3. Bazyari, Habibollah Habib. "An Analysis of Operating Expenses in Selected Farm Supply and Marketing Cooperatives in Mississippi, 1955-1963." M.S. Thesis. Miss. State Univ., 1965.
4. Bieter, Robert Joseph. "An Economic Analysis of Cooperatives in Maryland." M.S. Thesis. Univ. of Md., 1957.
5. Buol, J. A. "Consolidation of Eastern Colorado Cooperatives." M.S. Thesis. Colo. State Univ., 1970.
6. Calloway, Tom L. "A Business Analysis of 55 Farmer`s Purchasing Cooperatives, Tennessee, 1949." M.S. Thesis. Univ. Tenn., 1951.
7. Downey, W. David. "Purchasing Behavior of Farm Supply Cooperative Members." M.S. Thesis. Purdue Univ., 1963.
8. Duckett, Roland Edwin. "Communication Procedures, Educational Programs, Decision-Making Routines, and the Role of the Director in Independent Farm Supply Cooperatives in Virginia." M.S. Thesis. Va. Poly. Inst., 1969.

9. Erlewine, Keith R. "Market Structure and Firm Practices in Farm Supply Retailing: The Problem of Equitable Treatment of Large and Small Farmers." M.S. Thesis. Univ. Neb., 1962.
10. Ezzell, Walter L. "Accounting System for Retail Cooperative Associations." M. S. Thesis. Univ. Minn., 1950.
11. Forrest, James Lacy. "An Analysis of Management Selection, Training and Evaluation Practices of Farmer Purchasing and Marketing Cooperatives in Mississippi and Suggestions for Development." M.S. Thesis. Miss. State Univ., 1963.
12. Geu, Henry. J. "Financial Ratios for Nebraska Grain and Farm Supply Cooperatives." M.S. Thesis. Univ. Neb., 1976.
13. Hogg, Howard Carl. "Merger of Selected Oregon Farm Cooperatives." M.S. Thesis. Oreg. State Univ., 1960.
14. Jenkins, Lewis Perron. "The Operating Policies and Practices of Cooperative Purchasing Associations Operating in Mississippi." M.S. Thesis. Miss. State Univ., 1950.
15. Maxwell, R. E. "Ratio Analysis and Decision Making in Farm Supply Cooperatives." M.S. Thesis. Univ. Ark., 1973.
16. Myers, Walter McIlroy. "Eastern Colorado Cooperative Study." M.S. Thesis. Colo. State Univ., 1969.
17. Novey, Donald F. "A Study of Selected Factors Related to Differential Participation of Members in a Sample of South Dakota Purchasing Cooperatives in 1958." M.S. Thesis. S. Dak. State Univ., 1959.
18. Pratt, Wilburn J. "The Cost-Output Relationship of a Kentucky Farm-Supply Cooperative." M.S. Thesis. Univ. Ky., 1962.
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20. Rulon, D. K. "Pricing Policy Alternatives for Farm Supply Cooperatives." M.S. Thesis. Purdue Univ., 1972.

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23. Strickland, Gary William. "An Analysis of Selected Operating Practices of Selected Cooperatives in Mississippi, 1965-1966." M.S. Thesis. Miss. State Univ., 1967.
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27. Trimis, Antonios E. "Factors Relating to Patronage of Purchasing Cooperatives by 107 Middle Tennessee Farmers." M.S. Thesis. Univ. Tenn., 1956.
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29. Young, Gary F. "Factors Affecting the Sales of Supplies by South Carolina Farmer Supply Cooperatives." M.S. Thesis. Clemson Univ., 1969.

Ongoing Current
Research Infor-
mation System
(CRIS) Projects

1. Groves, F. W. "Economic Analysis of the Cost of Product Settlement to Local Farm Supply Cooperatives," Univ. Wis., Madison, Wis. Period: 10-1-78 to 9-30-81. Objectives: Estimates the economic cost of providing credit to members of local farm supply cooperative; and simulates the effects of different product settlement policies on the financial position of cooperatives.

Completed Current
Research Infor-
mation System
(CRIS) Projects

1. Coley, B. G. "Feasibility of Establishing Farmer's Cooperatives Among Low-income Farmers in 6 N.C. Counties," Agricultural and Technical Univ. N.C., Greensboro, N.C. Period: 10-1-78 to 9-30-79. Objectives: Examined markets of low-income farmers by farm inputs and ascertained if purchasing cooperatives were feasible and therefore helpful in increasing their incomes; examined markets in which these low-income farmers sell their major products and ascertained the feasibility of forming selling cooperatives to improve their income positions; and compared white and black low-income farmers to determine if there is any difference between the two groups in relation to objectives (1) and (2).
2. Dobson, W. D. "Financial Characteristics of Local Farm Supply Cooperatives in Wisconsin," Univ. Wis., Madison, Wis. Period: 7-1-78 to 6-30-79. Objectives: Compared the liquidity, solvency, efficiency, and net savings ratios of Wisconsin farm supply cooperatives to comparable industry standard financial ratios; explained the differences between the ratios for the Wisconsin farm supply cooperatives and the industry standard ratios; and developed prescriptions for increasing operating efficiency and growth rates of farm supply cooperatives from the information obtained in connection with objectives (1) and (2).
3. Gordon, J. A. "Farmers' Evaluation of Management Practices of Farmer Supply Cooperatives," Univ. Ark., Pine Bluff, Ark. Period: 1-25-74 to 1-24-79. Objectives: Evaluated opinions of farmers towards pricing practices and merchandizing techniques currently used by firms handling products used in agricultural production; identified factors that influence farmers towards cooperatives; and determined if the difference in farmers' opinions about price discounts and other terms of trade could be explained by some selected socioeconomic factors.
4. _____ . "Earnings of Farmers Through Cooperative Action in Arkansas," Univ. Ark., Pine Bluff, Ark. Period: 6-16-72 to 6-15-77. Objectives: Determined if prices received through cooperatives are higher than those received by individual action; determined if cooperatives give farmers a cost advantage in purchasing supplies over retail cost by individuals; and determined the role of cooperatives in bargaining.

5. Jackson, H. "Accounting Systems and Ratio Analysis for Decision Making for Cooperatives," Univ. Ark., Fayetteville, Ark. Period: 5-1-72 to 9-30-79. Objectives: Developed an accounting system for cooperatives to improve the decision-making process and promoted effectiveness of farm supply cooperatives in serving rural people.
6. Manvel, M. L. "Economic Aspects of Firm Management of Farmer Cooperatives," Kans. State Univ., Manhattan, Kans. Period: 3-12-65 to 6-30-74. Objectives: Determined the kinds of records kept by grain and farm supply cooperatives and appraised their usefulness as sources of information for performing such management functions as planning and control; identified, measured and evaluated relationships between variables in the firms' financial statements to determine those variables which affect economic success; determined key standards and financial guides characteristic of successful firms; developed and adapted special forms and techniques whereby income and costs of producing that income are matched so that the net effect of each significant economic activity in grain and farm supply cooperatives can be determined for purposes of control and planning.
7. Sorenson, L. O. "Impact of Changing Transportation System on Local Grains and Farm Supply Cooperatives," Kans. State Univ., Manhattan, Kans. Period: 7-1-71 to 12-31-77. Objectives: Estimated quantities of grain that will move through country elevators and commercial channels in 1975 and 1980 by counties; estimated demand for feed and fertilizer; projected alternate changes in grain transportation; determined economic feasibility of alternative systems of grain movement from producers to destinations; determined effect of changes on number, size, type, and location of country elevators and on local employment and services; and determined consequences of projected transportation changes on distribution of feed and fertilizer, while developing guidelines which individual firms could use in investment and transportation decisions.
8. Wilkins, P. C. "Producer Characteristics in Membership and Use of Farmer Cooperatives," Farmer Cooperative Service, U. S. Dept. Agri., Washington, D.C. Period: 9-1-78 to 6-30-79. Objectives: Determined producer membership by type of cooperative, portion of major crops marketed through cooperatives, portion of farm supplies purchased from cooperatives, and related

information by age of producer, member-nonmember status, and type, and size of farm.

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Books

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1. Baumel, C. P. "Transportation and Distribution Systems for Moving Grain and Fertilizer Through Deepwater Ports." Iowa State Univ., Ames, Iowa. Period: 4-22-76 to 9-30-79. Objectives: Projects the amounts of grain and dry fertilizer through deepwater ports on the Mississippi River by 1980; estimates structural adjustments needed to minimize cost of handling and

transporting grain and dry fertilizer, as well as structural adjustments required when using rail facilities.

2. _____ . "Alternative Systems for Transporting Agricultural Outputs to Markets and Inputs to Production Areas." Iowa State Univ., Ames, Iowa. Period: 7-1-74 to 6-30-79. Objectives: Determines the optimal transportation systems and facilities needed for transporting grain and fertilizer to maximize producer income.
3. Vogelsang, D. L. "The Enhancement of Competition From a Cooperative Presence in the Fertilizer Industry." Univ. Minn., St. Paul, Minn. Period: 6-1-77 to 9-30-79. Objectives: Determines the competitive enhancement of competition from farmer cooperatives by measuring differences in the farm cost of cooperative and noncooperative fertilizers; and determined the cooperative's impact on industry structure and cost.

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Ongoing Current
Research Infor-
mation System
(CRIS) Projects

1. Baker, C. B. "Financing Farms, Markets and Rural Communities," Univ. Ill., Urbana, Ill. Period: 3-9-76 to 9-30-80. Objectives: Estimates the effects of financial strategies on the organization, income, viability, and growth of Illinois farms; evaluates agricultural finance markets and the effects of alternatives in organization, operation, and regulation of farm-related financial intermediaries; associates the distribution of risks with the distribution of rewards in the food production-distribution system and the related financial system; and investigates the relationships between area growth and area financial markets with alternatives in financing area growth.
2. Hardy, W. E., Jr. "Development of Models for Evaluation of Credit Worthiness of Agricultural Borrowers." Auburn Univ., Auburn, Ala. Period: 10-1-78 to 9-30-81. Objectives: Describes and analyzes procedures used to evaluate credit worthiness of agricultural borrowers and their basic characteristics; and develops an objective usable loan classification procedure to evaluate risk associated with potential and existing agricultural loans.
3. Kizer, L. G. "A Study and Analysis of the Financial Structure of Mississippi Agriculture." Miss. State Univ., Mississippi State, Miss. Period: 10-10-76 to 6-30-80. Objectives: Determines the lending policies and practices of agricultural lending agencies providing credit to Mississippi farmers; studies the impact of capital requirements and cost of marginal investments on the financial structure of Mississippi farms; analyzes the intra-farm value of capital for

marginal investment alternatives or requirements; and explores alternative methods of financing the future expected credit needs of agriculture.

4. Van Blokland, P. J. "Lending and Borrowing Funds for Florida's Agriculture." Univ. Fla., Gainesville, Fla. Period: 12-4-78 to 12-31-83. Objectives: Finds what lending criteria and client requirements are demanded by Florida banks for short-term agricultural loans, determines how agricultural financial lenders in Florida cope with widely varying prices for some agricultural enterprises; and records the national and statewide trends in the different agricultural lending institutions, and how these trends will affect the State's agriculture to determine how the futures market can be used as a lending and borrowing tool for agricultural financial institutions as well as farm businesses in Florida.

Completed Current
Research Infor-
mation System
(CRIS) Projects

1. Bell, S. C. "Changing Role of Selected Credit Agencies." Auburn Univ., Auburn, Ala. Period: 7-1-75 to 9-30-79. Objectives: Determined and analyzed attitudes and changing practices of commercial bankers relative to the use of agricultural specialists in meeting increased credit demands of farmers; and determined and evaluated the changing role of farm supply dealers in the area of agricultural credit.
2. Boehlje, M. "Capital Market For Farm Firms: Adequacy, Institutional Changes and Firm Financial Management." Iowa State Univ., Ames, Iowa. Period: 8-19-74 to 7-1-79. Objectives: Analyzed the requirements and availability of aggregate and per farm debt, equity, and total capital for the agricultural production sector of Iowa and the Midwest; evaluated the impact of institutional changes and developments in the agricultural capital market on the farm firm, rural financial intermediaries, and aggregate supply and demand relationships; and assessed the capital needs of limited resource (small, part-time, and beginning) farmers and potential of current financial institutions to meet their needs.
3. Gessaman, P. "Acquisition and Use of External Capital in Rural Nebraska." Univ. Neb., Lincoln, Neb. Period: 4-5-73 to 12-31-77. Objectives: Determined the flow of funds through which Nebraska rural borrowers secured their debt and equity capital; identified institutional constraints in the lending process and evaluated their

impact on rural credit users, as well as evaluating possible solutions to constraints identified, methods of financial analysis, and financial management techniques for farm firms.

4. Hillman, J. S. "Financial Problems Relating to Development of Agricultural Production and Credit Sectors." Univ. Ariz., Tucson, Ariz. Period: 7-1-74 to 6-30-77. Objectives: Identified the policies, practices, and problems associated with the lending and use of agricultural credit as viewed by Arizona bankers and agricultural producers; and investigated alternative strategies for transferring farm/ranch assets from one generation or owner to the next.
5. Hoque, A. "An Analysis of Alternatives for Financing Low-Equity Farms." Southern Univ., Baton Rouge, La. Period: 2-19-74 to 2-18-79. Objectives: Determined the amount of credit that would be necessary to improve and/or maintain the economic position of the low-equity farm at or above a viable income level and established criteria by which credit would be provided; identified those low-equity farms that are viable in the sense that they are producing viable incomes; estimated the credit requirements for various labor-intensive enterprises that are adaptable to low-equity farms; evaluated the lending and supervisory credit policies of private and governmental lending institutions with respect to the low-equity farms; and determined methods and/or procedures by which low-equity farms may be financed.
6. Ladue, E. L. "Capital Management and Finance of the Agricultural Firm." Cornell Univ., Ithaca, N.Y. Period: 10-28-71 to 9-30-79. Objectives: Determined the factors influencing adjustments of agricultural credit institutions to a changing agriculture and evaluated selected institutional arrangements, determined the economic feasibility of alternatives to asset ownership; developed and evaluated management measurement aid loan evaluation techniques; developed and evaluated capital management techniques, as well as alternative growth strategies and isolated factors influencing growth.
7. Myrick, D. H. "Financial Management in Montana Agriculture." Mont. State Univ., Bozeman, Mont. Period: 1-13-77 to 9-30-79. Objectives: Promotes more efficient financial management on Montana farms and ranches, and assists Montana farmers, ranchers; and

their credit institutions in avoiding periodic financial disaster due to production failures, price declines, and combinations thereof.

8. Taylor, F. R. "Credit Problems of North Dakota Agriculture." N. Dak. State Univ., Fargo, N. Dak. Period: 10-11-65 to 9-30-79. Objectives: Determined needs and supply of farm credit; analyzed methods of financing farm adjustments; and evaluated institutional lending policies and practices.
9. Wise, J. O. "Requirements for and Alternative Method of Acquiring Capital." Univ. Ga., Athens, Ga. Period: 7-1-72 to 9-30-79. Objectives: Determined capital requirements and capital use for viable Georgia farms; described major alternatives for acquiring capital with respect to emerging needs and farmer goals; and suggests ways of improving farm financial management and flow of capital into agriculture.

LABOR

Books

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2. Hoover, N. K. Handbook of Agricultural Occupations. Danville, Ill.: The Interstate Printers & Pub. Inc., 1969.
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Journals

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2. Auer, L. "Labor Productivity In Agriculture, A Canada-US Comparison," Canadian Journal of Agricultural Economics, Vol. 18, No. 3 (Nov. 1970), pp. 43-55.

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4. Baum, E. L., and Heady, E. O. "Some Effects of Selected Policy Programs on Agricultural Labor Mobility in the South," Southern Journal of Agricultural Economics, Vol. 25, No. 3 (Jan. 1959), pp. 327-37.
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6. Bowles, G. K. "The Hired Farm Work Force," Agricultural Policy Review, Vol. 6, No. 3 (July-Sept. 1966), pp. 6-7.
7. Bryant, W. K. "Demand and Supply of Agricultural Labor in a Period of Social Change," Journal of Farm Economics, Vol. 46, No. 5. (Dec. 1964), pp. 1246-52.
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16. Elterich, J., and R. Bieker. "Cost of Unemployment Insurance for Farmworkers in Selected States," Agricultural Economics Research, Vol. 27, No. 3-4 (July-Oct. 1975), pp. 85-92.
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18. Freyssinet, J., and A. Mounier. "Measuring the Incomes of Agricultural Workers," International Labour Review, Vol. 110, No. 3 (Sept. 1974), pp. 251-66.
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Ongoing Current
Research Infor-
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1. Elterich, J. G. "Economic Analysis of Rural Manpower." Univ. Del., Newark, Del. Period: 7-1-76 to 6-30-81. Objectives: Labor market analysis impact of institutional or legislative parameters in the work force field on people, firms or industries, labor management issues, and socioeconomic characteristics of rural employees and employers.
2. Morgan, L. C. "An Economic Analysis of Agricultural Labor Productivity in the Texas Rio Grande Valley." Tex. A & M Univ., College Station, Tex. Period: 10-1-75 to 11-26-83. Objectives: Estimates the economic value of hired agricultural labor in the Texas Rio Grande Valley

for various levels of total labor utilized and for various levels of labor utilized in each major agricultural enterprise; and compares the estimated economic values of hired agricultural labor with the prevailing wage rate to determine the optimum level of labor utilization for each major agricultural enterprise.

Completed Current
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1. Winkler, A. L. "Labor Unionization in Farm Equipment Manufacture: Effects on Profits (Costs)." Kans. State Univ., Manhattan, Kans. Period: 7-1-77 to 5-31-78. Objectives: Identified a relationship between the wages deflated for price increases and the return of net income on sales of the International Harvester Co. The basic hypothesis was that there is a significant relationship between "union wage increases" and prices in the farm equipment manufacture industry. It was assumed that the rising real wage rate, through its impact on the return on sales, will at some point in time, depending upon market conditions and strategic pricing decisions, affect product prices. The possible direct impact of wage increases upon machinery's wholesale price was also tested.

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Ongoing Current
Research Infor-
mation System
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nonfarming sector land acquisitions on California land prices and rates of change of land prices; analyzes various existing and proposed land policies in light of their impacts via the market model.

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Research Infor-
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(CRIS) Projects

1. Pine, W. H. "Farm Real Estate Markets and Prices in Kansas" Kansas State Univ., Manhattan, Kans. Period: 7-1-70 to 6-30-79 Objectives: Provided information on prices and price trends for farm real estate in parts of Kansas; and determined and measured factors affecting trends and factors causing differences in values of tracts as well as who was buying and selling, their reasons, and influences on prices.

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Ongoing Current
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1. Elterich, J. G. "Farm Management, Energy and Machinery Use in Mid-Atlantic States." Univ. Del., Newark, Del. Period: 7-1-77 to 9-30-81. Objectives: Considers crop management practices such as the different cover crops (especially legumes), chemical treatment such as herbicides, insecticides and fungicides--their timing and size of operations--and evaluates their respective profitabilities; develops--model situations for the management of crop practices that will achieve greater economy--both in terms of increasing profits and reducing costs of energy and labor; and determines optimum size of farm business under conventional and reduced tillage operations for a sample of soil conditions and for different tenure systems.
2. Hamilton, J. R. "Energy in Western Agriculture." Univ. Idaho, Moscow, Idaho. Period: 7-1-74 to 6-30-80. Objectives: Examines and analyzes adjustments which might result from changes in prices and supplies of energy resources, and consequent impacts on Western agriculture.
3. Jensen, H. R. "An Economic Analysis of Minnesota Farm Adjustments to Increasing Energy Prices." Univ. Minn., St. Paul, Minn. Period: 7-1-77 to 6-30-80. Objectives: Estimates the energy embodied in capital inputs; estimates optimum adjustments in resource use, production methods and output on representative Minnesota farms as energy prices increase; and estimates aggregate shifts in energy use and production by Minnesota's commercial agriculture as energy prices increase.

Completed Current
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2. Gopalakrishan, C. "Energy in Western Agriculture- Requirements, Adjustments and Alternatives." Univ. Hawaii, Honolulu, Hawaii. Period: 7-1-74 to 9-30-79. Objectives: Estimated patterns and amounts of energy inputs currently utilized in western agriculture; examined and analyzed adjustments which might result from changes in prices and supplies of energy resources as well as the consequent impacts on western agriculture; and assessed contributions of, and prospects for, alternative, technologies and policies for dealing with changes in energy availability.
3. Johnston, W. E. "Energy in Western Agricultural Requirements, Adjustments and Alternatives." Univ. Calif., Davis, Calif. Period: 7-1-73 to 6-30-78. Objectives: Examined and analyzed adjustments which might result from changes in prices and supplies of energy resources, and consequent impacts on western agriculture; and assessed contributions of, and prospects for, alternative technologies and policies for dealing with changes in energy availability.
4. Whittlesey, N. K. "Energy in Western Agriculture: Requirement, Adjustments and Alternatives." Wash. State Univ., Pullman, Wash. Period: 7-1-74 to 6-30-79. Objectives: Estimated current patterns and amounts of energy inputs currently utilized in western agriculture; examined and analyzed adjustments which might result from changes in price and supplies of energy resources and consequent impacts on western agriculture; and assessed contributions of, and prospects for, alternative technologies and policies for dealing with changes in energy availability.

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