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## C. Phillip Baumel

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April, 2000

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Iowa State University, Ames, IA 50011

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Date and Place of Birth: July 26, 1928, Ohio

Family: Wife, Rita, Registered Licensed Dietitian  
Children, Stephen, Registered Nurse & B.S.W.  
Mary, Industrial Engineer  
Elizabeth, Comptroller, Brokerage firm  
Mark, Medical Doctor, Pulmonologist  
Margaret, Marketing Director of seven malls in San Diego

Education: B.Sc. The Ohio State University 1950  
M.Sc. The Ohio State University 1957  
Ph.D. Iowa State University 1961

Employment Experience:

Branch Manager, Grain and Farm Supply Cooperative, Groveport, Ohio, 1951-54

Captain, U.S. Air Force, 1954-56

Assistant Professor, Cornell University, 1961-63

Assistant Professor, Iowa State University, 1963-65

Associate Professor, Iowa State University, 1965-70

Chief of Party, Iowa Universities Mission to Peru, 1966-68

Professor, Iowa State University, 1970-82

Charles F. Curtiss Distinguished Professor in Agriculture, Iowa State University, 1982-present

Courtesy appointment as Professor, Department of Transportation and Logistics, College of Business, Iowa State University, December 1991.

Awards and Honors:

Iowa Certificate of Recognition for Outstanding Extension, Epsilon Sigma Phi, September 1974.

Awarded \$1,000 First Prize for best railroad article in 1976, Logistics and Transportation Review.

Distinguished Extension Award, American Agricultural Economics Association, August 1977.

Outstanding Extension Educator Award, Iowa State University Extension, November 1977.

Appointed to Rural Transportation Advisory Task Force by U.S. Secretary of Transportation and U.S. Secretary of Agriculture, 1979.

Awarded \$1,000 for Excellence in Applied Research and Extension, College of Agriculture, Iowa State University, March 1981.

Named Charles F. Curtiss Distinguished Professor in Agriculture, Iowa State University, May 1982.

Awarded \$500 for the best research paper on Inland Waterway User Charges at the Waterway User Charges National Research Conference, University of Illinois, June 1982.

Appointed to Blue Ribbon Transportation Task Force by Governor of Iowa, July 1982.

Orin J. Judd, George A. Meier and Orinella Judd Meier Transportation and Physical Distribution Fellowship established at Iowa State University in honor of Baumel's transportation work, July 1982.

Distinguished Policy Contribution Award, American Agricultural Economics Association, August 1982.

Awarded \$2,500 for outstanding research paper presented at the Transportation Research Forum Annual Meeting in New Orleans, October 1982.

Awarded \$1,000 for the best paper on waterway transportation economics and policy by the National Waterways Foundation, October 1982.

Appointed to the Advisory Committee to the Joint Economic Committee of the U.S. Congress National Infrastructure Study, March 1983.

Superior Service Award, U.S. Department of Agriculture, May 1983.

University Extension Distinguished Service Award, Iowa State University, November 1986.

Burlington Northern Foundation Faculty Achievement Award, May 1987.

Elected Fellow by the American Agricultural Economics Association, August 1987.

Awarded \$2,500 for the outstanding paper published in the 1989 Journal of the Transportation Research Forum, October 1989.

Awarded \$250 for the best agricultural and rural transportation paper by the Agricultural and Rural Transportation Chapter of the Transportation Research Forum, October 1989.

Faculty Citation, Iowa State University Alumni Association, June 1991.

Awards and Honors (cont'd)

Awarded \$250 for the best agricultural and rural transportation paper by the Agricultural and Rural Transportation Chapter of the Transportation Research Forum, November 1991.

Courtesy appointment as Professor, Department of Transportation and Logistics, College of Business, Iowa State University, December 1991.

Named Distinguished Transportation Researcher by the Transportation Research Forum, October 1993.

Received Best Agricultural and Rural Transportation Research Paper by the Agricultural and Rural Transportation Chapter of the Transportation Research Forum, October 1995.

Faculty Excellence Award commemorating the 75th Anniversary of the Transportation Research, Board May 13, 1996.

Outstanding Public Issues Education Program Award, awarded by the Farm Foundation and the National Public Policy Education Committee, September 22, 1998.

Outstanding Research Award, awarded by the 1999 Transportation Research Forum, September 30, 1999.

### **Organizational Activities:**

#### Department of Economics, Iowa State University

Member, Economics Council, 1977-79

Chair, 1978-79

Chair, Economics Departmental Salary Procedure Review Committee, 1981-83

Chair, Agricultural Economics Staff Planning and Recruiting Committee, 1982-84

Raised approximately \$5,000,000 in outside research funds from private, state and federal sources since 1972

Chair, Recruiting Committee for the position of Professor-in-Charge, Center for Agricultural and Rural Development, 1984

Chair, Agricultural Policy Conference Committee, 1984

Departmental representative to the Iowa State University Faculty Senate, 1987-1990

Member, Economics Department Strategic Planning Committee, 1987

#### Iowa State University

Member, Iowa State University Faculty Council, 1977-80

Chair, Committee on Faculty Development and Welfare, 1977-78

Chair, Faculty Council, 1979-80

Member, Iowa State University Administrative Board, 1979-80

Member, College of Agriculture Dean's Faculty Advisors, 1987-88

Member, Ad Hoc Extension Review Committee, 1988

Member, Executive Committee, Midwest Transportation Center, 1988

Chair, College of Agriculture Soybean Modification Task Force, 1989-1991

#### Professional Organizations

Member, North Central Agricultural Economics Association

Member, Transportation Research Forum  
Vice President, Membership, Agricultural Chapter, 1982  
Vice President, Program, Agricultural Chapter, 1983  
Member, American Agricultural Economics Association  
Organized Annual Meeting Session on Issues in Freight Transportation Regulation, 1979  
Chair, Quality of Communications Award Committee, 1982  
Organized Symposium "Impact of Rail and Motor Carrier Deregulation on Agriculture and Computerized Estimation of Rail Costs" at 1983 Meetings at Purdue University  
Member, Masters Thesis Award Committee, 1983-85

State, Regional, National and International Activities:

State

Member - Governor's Blue Ribbon Transportation Task Force, 1982  
Member - Des Moines Register and Tribune panel to identify the future of Iowa during the 1980s  
Advisor - Iowa Cattleman Association Transportation Committee, 1980  
Advisor - Iowa Farm Bureau Field Crops Advisory Committee, 1978-present  
Coordinator - Committee on the Future of Iowa Agriculture, 1985  
Member - Governor's Grain Quality Task Force, 1987  
Member - Governor's Work Group on Rail Issues, 1988  
Member - Iowa Department of Transportation State Plan Advisory Committee, 1994

Regional

Chair - Pioneer Transportation Advisory Panel, 1980  
Co-Chair - Houston-Iowa Grain Transportation Committee, 1981-1983  
Originator - NC-112, Impact of Changing Transportation System on Local Grain and Farm Supply Marketing Firms, 1972  
Chair - 1972-74  
Originator - NC-137 - Evaluation of Alternative Rural Freight Transportation Storage and Distribution Systems, 1977  
Chair - 1976-78  
Chair - 1991-93  
Member - Executive Committee, Midwest Transportation Center, 1988  
Chair - NC-179, Agricultural and Rural Transportation, 1993 - 1996

National

Member - Rural Transportation Advisory Task Force, 1979-80  
Chair - U.S.D.A. Staggers Rail Act of 1980 Assessment Task Force, 1982  
Member - Advisory Committee to Joint Economic Committee, U.S. Congress  
National Infrastructure Study, 1983  
Chair - U.S.D.A. Staggers Rail Act of 1980 Update Assessment, 1983  
Advisor - American Soybean Association Transportation Committee, 1980-1984  
Advisor - American Farm Bureau Federation Transportation Committee, 1983  
Advisor - National Council on Public Works Improvement, 1987  
Member - National Research Council Committee to Review the Upper Mississippi River - Illinois Water Navigation System Feasibility Study. May 2000 - January 31, 2001

International

Chief of Party - Iowa Universities Mission to Peru, 1966-68  
Visiting Professor - Universidad Nacional Agraria, Lima, Peru, March-April 1988

## PUBLICATIONS

### Refereed Journals

Baumel, C. Phillip and Wayne A. Fuller, "Estimates of the Productivity of Management Practices in Local Agribusiness Firms," Journal of Farm Economics, Vol. 46, No. 4, November 1964.

Baumel, C. Phillip and Lee R. Kolmer, "Opportunities in Economics Education with Marketing Firms," Journal of Farm Economics, Vol. 47, No. 4, November 1965.

Hammond, David, J., Robert Strain and C. Phillip Baumel, "Use of Simplified Management Games with Agribusiness Firms," Journal of Farm Economics, Vol. 48, No. 4, November 1966.

Thompson, W. H. and C. Phillip Baumel, "Impact of Transportation Equipment Shortages on Iowa Country Elevators," Transportation Journal, Vol. 12, No. 1, Fall 1972.

Baumel, C. Phillip, Robert N. Wisner and John J. Miller, "On-the-Farm Versus Elevator Storage Costs," Journal of American Society of Farm Managers and Rural Appraisers, Vol. 38, No. 2, October 1974.

Wisner, Robert N., C. Phillip Baumel and John A. Wallize, "An Analysis of Deferred Grain Pricing Contracts," Journal of the American Society of Farm Managers and Rural Appraisers, Inc., Vol. 39, No. 2, October 1975.

Baumel, C. Phillip, Thomas P. Drinka and John J. Miller, "Implications of the Local Rail Assistance Section of the Railroad Revitalization and Regulatory Reform Act of 1976," The Logistics and Transportation Review, Vol. 12, No. 5, 1976. This article was awarded \$1,000 first prize for the best railroad article in 1976.

Baumel, C. Phillip, John J. Miller and Thomas P. Drinka, "The Economics of Upgrading Seventy-One Branch Rail Lines in Iowa," American Journal of Agricultural Economics, Vol. 59, No. 1, February 1977.

Miller, John J., C. Phillip Baumel and Thomas P. Drinka, "Impact of Rail Abandonment upon Grain Elevator and Rural Community Performance Measures," American Journal of Agricultural Economics, Vol. 59, No. 4, November 1977.

Baumel, C. Phillip, John J. Miller and Thomas P. Drinka, "Procedures for Developing State Rail Plans," Transportation Research Board, National Academy of Sciences, National Science Foundation, Transportation Research Record 687, Washington, D.C., 1978.

Miller, John J., Thomas P. Drinka, Craig W. O'Riley and C. Phillip Baumel, "Effects of Coal Blending on the Utilization of High-Sulfur Iowa Coal and Low-Sulfur Western Coal," Western Journal of Agricultural Economics, No. 1, July 1979, pp. 87-98.

Kriebel, Wesley R. and C. Phillip Baumel, "Issues in Freight Transportation Regulation," American Journal of Agricultural Economics, Vol. 61, No. 5, December 1979.

Drinka, Thomas P., John J. Miller and C. Phillip Baumel, "Effects of Coal Benefication and Coal Transportation Changes on the Marketing of High-Sulfur Coal in Iowa," North Central Journal of Agricultural Economics, Vol. 2, No. 2, July 1980, pp. 113-123.

Refereed Journals (cont'd)

Miller, John J., C. Phillip Baumel and Thomas A. Narigon, "Railroad Rate Deregulation: Effects on Corn and Soybean Shipments," in Transportation of Coal, Grain and Passengers by Rail and Waterways, Transportation Research Board, National Science Foundation, Transportation Record 824, Washington, D.C., 1981.

Beaulieu, Jeffrey, Robert Hauser and C. Phillip Baumel, "Inland Waterway User Taxes: Their Impacts on Corn, Wheat and Soybean Flows and Transport Costs," Proceedings: Twenty-third Annual Meeting, Transportation Research Forum, Vol. XXIII, No. 1, 1982. This article was awarded the \$2,500 first prize for the outstanding paper.

Huysen, Curtis D. and C. Phillip Baumel, "Impact of Inland Waterway User Charges on Fertilizer Flows and Transport Costs," Proceedings: Twenty-third Annual Meeting, Transportation Research Forum, Vol. XXIII, No. 1, 1982. This paper was awarded \$1,000 by the National Waterways Foundation for the best paper on waterway transportation economics and policy.

Baumel, C. Phillip and Eldo Shornhorst, "Local Rural Roads and Bridges: Current and Future Problems and Alternatives," Transportation Research Record 898, Low-Volume Roads: Third International Conference, 1983, Transportation Research Board National Academy of Sciences, Washington, D.C., pp. 374-378.

Kriebel, Wesley R. and C. Phillip Baumel, "Issues in Freight Transportation Regulation: Reply," American Journal of Agricultural Economics, Vol. 65, No. 3, August 1983, pp. 629-632.

Pautsch, Gregory R., Cathy A. Hamlett and C. Phillip Baumel, "Impact of Alternative Changes in the Surface Transportation Assistance Act of 1982," Proceedings: Twenty-fourth Annual Meeting, Transportation Research Forum, November 1983.

Hauser, Robert J., Jeffrey Beaulieu, and C. Phillip Baumel, "Implicit Values of Multiple Car Grain-Loading Facilities in Iowa and Nebraska," North Central Journal of Agricultural Economics, Vol. 6, No. 2, July 1984, pp. 80-90.

Lee, Tenpao, Charles R. Hurburgh, Jr., and C. Phillip Baumel, "Fuel Consumption and Fuel Costs in Exporting Grain to Japan and Europe," Proceedings - 25th Annual Meeting Transportation Research Forum, Vol. 25, No. 1, November 1984.

Hauser, Robert J., Jeffrey Beaulieu and C. Phillip Baumel, "Impacts of Inland Waterway User Fees on Grain Transportation and Implied Barge Rate Elasticities," The Logistics and Transportation Review, Vol. 21, No. 1, March 1985.

Hanson, Steven D., Cathy A. Hamlett, Gregory R. Pautsch and C. Phillip Baumel, "Vehicle Travel Costs on Paved, Granular, and Earth-Surfaced County Roads," Proceedings - 26th Annual Meeting Transportation Research Forum, Vol. 26, No. 1, November 1985.

Beaulieu, Jeffrey, Robert J. Hauser, and C. Phillip Baumel, "Regional Barge Service Demand Elasticities," Proceedings - 26th Annual Meeting Transportation Research Forum, Vol. 26, No. 1, November 1985.

Lee, Tenpao and C. Phillip Baumel, "Testing Asset Fixity for U.S. Agriculture: A Comment," American Journal of Agricultural Economics, Vol. 68, No. 2, May 1986.

Refereed Journals (cont'd)

Lee, Tenpao, C. Phillip Baumel and Patricia Harris, "Market Structure, Conduct and Performance of the Class I Railroad Industry, 1971-84," Transportation Journal, Vol. 26, No. 4, Summer 1987.

Hamlett, Cathy A., Gregory R. Pautsch, Sherry B. Miller and C. Phillip Baumel, "The Economics of Reducing the Size of the Local Road System," Transportation Research Record 1116, Transportation Research Board, National Research Council, Washington D.C., 1987.

Miller, Sherry Brennan, Gregory R. Pautsch, Cathy A. Hamlett and C. Phillip Baumel, "Restructuring the Local Rural Road System," Fourth International Conference on Low-Volume Roads, Transportation Research Board, National Research Council, Transportation Research Record 1106, Vol. 1, pp. 1-8, 1987.

Pautsch, Gregory R. and C. Phillip Baumel, "A Microcomputer Program to Evaluate the Benefits and Costs of Alternative Investment Strategies on Low-Volume Local Rural Roads," Transportation Research Record 1128, Transportation Research Board, National Research Council, Washington D.C., 1987, pp. 77-89.

Hanson, Steven, Cathy A. Hamlett and C. Phillip Baumel, "Estimating Farm Vehicle Travel Costs on Local Rural Roads," North Central Journal of Agricultural Economics, Vol. 9, No. 2, July 1987.

Lee, Tenpao and C. Phillip Baumel, "The Cost of Structure of the U.S. Railroad Industry Under Deregulation," Journal of the Transportation Research Forum, Vol. XXVII, No. 1, 1987, pp. 245-253.

Lee, Tenpao, Tae-Kyun Kim and C. Phillip Baumel, "Impact of Deregulation on the Financial Performance of the Class I Railroads: Heuristic Models of Pooled Time-Series and Cross-Sectional Data," The Logistics and Transportation Review, Vol. 24, No. 3, September 1988.

Lee, Tenpao, Tae-Kyun Kim and C. Phillip Baumel, "Errata: Impact of Deregulation on the Financial Performance of the Class I Railroads," The Logistics and Transportation Review, Vol. 25, No. 1, pp. 91-94, March 1989.

Hanson, Steven D., C. Phillip Baumel and Daniel Schnell, "Impact of Railroad Contracts on Grain Bids to Farmers," American Journal of Agricultural Economics, Vol. 71, No. 3, pp. 638-646, August 1989.

Hamlett, Cathy A., Sherry Brennan Miller and C. Phillip Baumel, "Local Rural Roads: A Policy Analysis," Journal of the Transportation Research Forum, Vol. XXX, No. 1, pp. 1-8, 1989. This paper was awarded the \$2,500 award for the outstanding paper published in the 1989 issue of the Journal of the Transportation Research Forum.

Hamlett, Cathy A. and C. Phillip Baumel, "Rural Road Abandonment: Policy Criteria and Empirical Analysis," American Journal of Agricultural Economics, Vol. 72, No. 1, pp. 114-120, February 1990.

Kober, Rodman and C. Phillip Baumel, "Transportation Forward Contracting or Options: A Description of and Analysis of an Application to Railroads," Transportation Practitioners Journal, Vol. 58, No. 1, pp. 51-63, Fall 1990.

Hanson, Steven D., Stephen B. Baumhover and C. Phillip Baumel, "The Impacts of Railroad Transportation Costs on Grain Elevator Margins," North Central Journal of Agricultural Economics, Vol. 12, No. 2, pp. 255-266, July 1990.

Refereed Journals (cont'd)

Hanson, Steven D., Stephen B. Baumhover and C. Phillip Baumel, "Characteristics of Grain Elevators that Contract with Railroads," American Journal of Agricultural Economics, Vol. 72, No. 4, pp. 1041-1046, November 1990.

Baumhover, Stephen B., Marty J. McVey, Michael Lipsman and C. Phillip Baumel, "Investment Strategies for the Rural Road and Branch Rail Line Systems," Journal of the Transportation Research Forum, Vol. XXXI, No. 1, pp. 167-179, 1990.

Hayes, Dermot J., Hyungdo Ahn and C. Phillip Baumel, "Meat Demand in South Korea: A Systems Estimate and Policy Projections," Agribusiness Vol. 7, No. 5, pp. 433-446, 1991.

Kober, Rodman and C. Phillip Baumel, "Forward Transportation Contracting and Futures: An Option for Grain Shippers?" Transportation Practitioners Journal, Vol. 58, No. 2, pp. 150-164, 1991.

Laserson, Myron R. and C. Phillip Baumel, "Grain Transportation and Distribution Research Needs in Grain Importing Countries," Agribusiness: An International Journal, Vol. 7, No. 3, May 1991.

Kober, Rodman and C. Phillip Baumel, "Policy Issues and Fiscal Debate: American Agricultural Transport Needs," Agribusiness: An International Journal, Vol. 7, No. 3, May 1991.

Tenpao Lee, Tae-Kyun Kim and C. Phillip Baumel, "A New Look at Economies of Scale in the U.S. Railroad Industry," Quarterly Review of Economics and Business, Kyungpook National University, Taegu, Korea, Volume 3, 1991.

Pautsch, Gregory R., Marty J. McVey and C. Phillip Baumel, "Railroad Grain Car Pricing and Supply Models," Journal of the Transportation Research Forum, Vol. XXXII, No. 1, 1991. Also printed in Proceedings of the 33rd Annual Meeting Transportation Research Forum, New Orleans, LA., October 31 - November 2, 1991.

Baumel, C. Phillip, Rodman Kober and Jerry Van Der Kamp, "Articulated Covered Hopper Grain Cars: Do They Have A Future?" Journal of the Transportation Research Forum, Vol. XXXII, No. 1, 1991. Also printed in Proceedings of the 33rd Annual Meeting Transportation Research Forum, New Orleans, LA, October 31 - November 2, 1991.

Kim, Tae-Kyun, Dermot Hayes and C. Phillip Baumel, "The Factor Bias of Technical Change Under Production Uncertainty," Journal of Rural Development 14, 1991, pp. 79-90.

Allen, Benjamin J., C. Phillip Baumel and David Forkenbrock, "Expanding the Set of Efficiency Gains of a Highway Investment: Conceptual, Methodological and Practical Issues," Transportation Journal, Vol. 34, No. 1, Fall 1994.

McVey, Marty J., Gregory R. Pautsch, and C. Phillip Baumel, "Estimated Domestic Producer and End User Benefits from Genetically Modifying U.S. Soybeans," Journal of Production Agriculture, Vol. 8, No. 2, 1995.

Morris, Landon L., Marty J. McVey, Xing Yang and C. Phillip Baumel, "Impact of Degrading Streams on Transportation and Utility Infrastructure Costs," Journal of the Transportation Research Forum, Vol XXXV, No. 1, 1995.

Refereed Journals (cont'd)

Xing, Yang, Marty J. McVey, Landon L. Morris and C. Phillip Baumel, "Impact of Degrading Streams on Bridges and Rural Travel Pattern," Transportation Research Board, Record No. 1498, Transportation Research Board, National Research Council, National Academy Press, Washington, D.C., 1995.

Pautsch, Gregory R., Bruce Babcock, and C. Phillip Baumel, "Estimating the Value of Guaranteed Rail Service," Journal of the Transportation Research Forum, Vol. 36, No. 1, 1996.

Morris, Landon L., Marty J. McVey, Robert A. Lohnes and C. Phillip Baumel, "Estimates of Future Impacts of Degrading Streams in the Deep Loess Soil Region of Western Iowa on Private and Public Infrastructure Costs," Engineering Geology, Vol. 43, No. 4, pp. 255-264, September 1996.

Gervais, Jean-Philippe and C. Phillip Baumel, "The Iowa Grain Flow Survey: Where and How Grain Producers Ship Corn and Soybeans," Journal of the Transportation Research Forum, Vol. 37(1), 1998.

Singh, Vishal P., Jean-Philippe Gervais and C. Phillip Baumel, "Consumers Willingness to Purchase Factory Production Ethanol Cars: A Contingent Valuation Approach," Journal of the Transportation Research Forum, Vol. 37(2), 1998.

Yu, Tun-Hsiang, C. Phillip Baumel, Connie L. Hardy, Lawrence Johnson, Marty McVey and Jerry Sell, "Economics of the Use of Imported U.S. High Oil Corn in Swine and Poultry Rations in Taiwan," Accepted for publication in the Agribusiness: An International Journal.

Gervais, Jean-Philippe, Takehiro Misawa, Marty J. McVey and C. Phillip Baumel, "Evaluating the logistic and economic impacts of extending 600-foot locks on the Upper Mississippi River: A linear programming approach," Proceedings of the 41st Annual Meeting of the Transportation Research Forum, pp. 46-73, September 30, 1999. Accepted for publication in the Journal of the Transportation Research Board.

Research Bulletins

Sharp, John W. and C. Phillip Baumel, "A Financial Analysis of Country Elevator Operations," Research Bulletin 813, Ohio Agricultural Experiment Station, Wooster, Ohio, June 1958.

Baumel, C. Phillip, "Some Problems in Using Financial Statements in Research," Extension and Research Workshop on Farmer Cooperatives, supplement to American Cooperation, American Institute of Cooperation, Washington, D.C., 1962.

Baumel, C. Phillip et al., "Peruvian Macro-Economic and Agricultural Prospects and Strategy, 1967-1972," Iowa Universities Mission to Peru, Lima, Peru, December 1967.

Baumel, C. Phillip, W. H. Thompson and Roy D. Hickman, "Impact of Transportation Equipment Shortages and Substandard Transportation Service in 1969 on Iowa Country Elevators," Special Report 68, Agriculture and Home Economics Experiment Station, Iowa State University, December 1971.

Baumel, C. Phillip, Thomas P. Drinka, Dennis R. Lifferth and John J. Miller, "An Economic Analysis of Alternative Grain Transportation Systems: A Case Study," PB-224 819, National Technical Information Service, U.S. Dept. of Commerce, Springfield, Virginia, November 1973.

Baumel, C. Phillip and W. H. Thompson, "Executive Summary - An Economic Analysis of Alternative Grain Transportation Systems: A Case Study," PB-224 819, National Technical Information Service, U.S. Dept. of Commerce, Springfield, Virginia, November 1973.

Research Bulletins (cont'd)

Baumel, C. Phillip, Robert N. Wisner, Thomas E. Fenton, Dennis R. Lifferth and John J. Miller, "Projected Quantities of Grain and Fertilizer Requiring Transportation Services in Iowa in 1979-80 and 1984-85, by Counties," CARD Report No. 51, Center for Agricultural and Rural Development, Iowa State University, Ames, Iowa, November 1974.

Baumel, C. Phillip, John J. Miller, and Thomas P. Drinka, "Executive Summary - An Economic Analysis of Upgrading Branch Rail Lines: A Study of 71 Lines in Iowa," Federal Railroad Administration, U.S. Dept. of Transportation, Report No. FRA-OPPD-76-3, DOT-FR-55045, March 1976.

Baumel, C. Phillip, John J. Miller and Thomas P. Drinka, "Toward Optimizing the Rail Transportation and Distribution System," Proceedings of the National Symposium on Transportation for Agriculture and Rural America, August 1, 1977, p. 160.

Payne, William F., C. Phillip Baumel and David E. Moser, "Estimating Truck Transport Costs for Grain and Fertilizer," University of Missouri-Columbia, College of Agriculture, Agricultural Experiment Station Research Bulletin No. 1027, June 1978.

Drinka, Thomas P., C. Phillip Baumel and John J. Miller, "Estimating Rail Transport Costs for Grain and Fertilizer," University of Missouri-Columbia, College of Agriculture, Agricultural Experiment Station Research Bulletin No. 1028, June 1978.

Baumel, C. Phillip, Thomas P. Drinka and John J. Miller, "Economics of Alternative Coal Transportation and Distribution Systems in Iowa," Iowa Agricultural and Home Economics Experiment Station, Special Report No. 81, October 1978.

Baumel, C. Phillip, John J. Miller and Thomas P. Drinka, "The Economics of Beneficiating and Marketing High-Sulfur Iowa Coal," Proceedings of U.S. EPA Symposium on Coal Cleaning to Achieve Energy and Environmental Goals, Hollywood, Florida, Vol. 1, EPA-600/7-29-098a, April 1979.

Miller, John J., C. Phillip Baumel, Robert N. Wisner, and Thomas E. Fenton, "Volume of Grain and Fertilizer Requiring Transportation: Projections to 1984-85 and 1989-1990 by Counties in Iowa," The Center for Agriculture and Rural Development, Iowa State University, Ames, Iowa, CARD Report 84, June 1979.

Miller, John J., C. Phillip Baumel and Thomas A. Narigon, "Railroad Rate Deregulation: Effects on Corn and Soybean Shipments," National Conference on Grain Marketing Patterns, Southern Cooperative Series Bulletin No. 307, North Central Cooperative Series Bulletin No. 299, TVA Circular 2-173, March 1981, pp. 341-364.

Baumel, C. Phillip, Robert J. Hauser and Jeffrey Beaulieu, "Impact of Inland Waterway User Charges on Corn, Wheat and Soybean Flows," PB-82-196023, National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, March 1982.

Baumel, C. Phillip and Curtis D. Huyser, "Impact of Inland Waterway User Charges on Fertilizer Flows: Study of Inland Waterway User Taxes and Charges," PB-82-196031, National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, March 1982.

Research Bulletins (cont'd)

Beaulieu, Jeffrey, Robert Hauser and C. Phillip Baumel, "Inland Waterway User Taxes: Their Impact on Corn, Wheat and Soybean Flows and Transport Costs," Conference Proceedings Waterway User Charges Conference, University of Illinois at Urbana-Champaign, AE-4535, September 1982. This paper was awarded the \$500 first prize for the best article on inland waterway user charges.

Baumel, C. Phillip and Jeffrey Beaulieu, "Computer Modeling Approaches to Evaluating Inland Waterway User Charge Impacts on Barge Grain and Fertilizer Traffic," Conference Proceedings Waterway User Charges Conference, University of Illinois at Urbana-Champaign, AE-4535, September 1982.

Baumel, C. Phillip, Charles R. Hurburgh and Tenpao Lee, "Estimates of Total Fuel Consumption in Transporting Grain from Iowa to Major Grain-Importing Countries by Alternative Modes and Routes," Iowa Agricultural and Home Economics Experiment Station, Special Report 90, Iowa State University, August 1985.

Baumel, C. Phillip, Cathy A. Hamlett and Gregory R. Pautsch, "The Economics of Reducing the County Road System: Three Case Studies in Iowa, Executive Summary," U.S. Department of Transportation, DOT/OST/P-34/86/033, Washington, D.C., January 1986.

Pautsch, Gregory R. and C. Phillip Baumel, "User's Manual for the County Road Evaluation Program--Volume I," U.S. Department of Transportation, DOT/OST/P-34/86/034, Washington, D.C., January 1986.

Baumel, C. Phillip, Cathy A. Hamlett and Gregory R. Pautsch, "The Economics of Reducing the County Road System: Three Case Studies in Iowa," U.S. Department of Transportation, DOT/OST/P-34/86/035, Washington, D.C., January 1986.

Hauser, Robert J. and C. Phillip Baumel, "Impacts of Market and Infrastructure Changes on the U.S. Domestic Transportation System, Research Issues in Grain Transportation," Transportation and Competitiveness of U.S. Agricultural Products in World Markets, Proceedings of a Research Symposium, October 1986, Economic Research Service, U.S. Department of Agriculture, Washington, D.C., October 14-15, 1986.

Baumel, C. Phillip, Steven Hanson and Robert Wisner, "Impact of Railroad Contracts on Corn, Wheat and Soybean Bids to Elevators and Farmers," Federal Railroad Administration, U.S. Department of Transportation, Office of Policy, Washington, D.C., July 1987.

Hanson, Steven D. and C. Phillip Baumel, "The Impacts of Transportation Costs on Grain Handling Margins at County Grain Elevators," Michigan State University, Department of Agricultural Economics, East Lansing, Michigan, Staff Paper 88-130, December 1988.

Baumel, C. Phillip, Sherry Brennan Miller, Gregory Pautsch and Cathy A. Hamlett, "The Local Rural Road System: Alternative Investment Strategies," CARD Technical Report Number 89-TR6, Center for Agricultural and Rural Development, Iowa State University, Ames, Iowa, March 1989.

Iowa State University Task Force, C. Phillip Baumel, Chair, "Economic Implications of Modified Soybean Traits," Iowa Agriculture and Home Economics Experiment Station, Special Report 92, Iowa State University, Ames, Iowa, May 1990.

Iowa State University Task Force, C. Phillip Baumel, Chair, "Economic Implications of Modified Soybean Traits," Iowa Agriculture and Home Economics Experiment Station, Special Report 92S, Iowa State University, Ames, Iowa, May 1990.

Research Bulletins (cont'd)

Baumel, C. Phillip, Stephen B. Baumhover, Marty J. McVey and Michael A. Lipsman, "Alternative Investments in the Rural Branch Railroad and County Road Systems," Midwest Transportation Center, Iowa State University, Ames, Iowa, March 1991.

McVey, Marty J., Gregory R. Pautsch and C. Phillip Baumel. "Estimate Soybean Producer's Share of the Value of Modified Soybeans" Special Report 93, "Beneficiaries of Modified Soybean Traits," Iowa Agriculture and Home Economics Experiment Station, Iowa Soybean Promotion Board Cooperating, Iowa State University, Ames, IA, 1993.

Baumel, C. Phillip and Won W. Koo. "Economic Evaluation of Alternatives to Rebuilding Ten Locks and Dams on the Upper Mississippi River," Proceedings of the 35th Annual Meeting Transportation Research Forum, New York, NY, October 14-16, 1993.

Baumel, C. Phillip, Lawrence A. Johnson and Carol Greiner, editors "Identifying New Industrial Uses for Soybean Protein," Special Report 95, Iowa Agriculture and Home Economics Experiment Station, Iowa State University, Ames, Iowa 1994.

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