

**BIOGRAPHICAL SKETCH**

**PAUL C. HUSZAR**

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TITLE AND EMPLOYER

Professor

Department of Agricultural &  
Resource Economics  
Colorado State University

BIRTHDATE AND PLACE

January 20, 1945  
Denver, Colorado, U.S.A.

MARITAL STATUS

Married

EDUCATION

Colorado State University, B.S. (Mathematics), 1967  
Colorado State University, M.S. (Economics), 1969  
University of California, Berkeley, Ph.D. (Agricultural & Resource Economics), 1972

MAJOR FIELDS

Natural Resource/ Environmental Economics and Regional/Urban Economics

MEMBER OF:

World Association of Soil and Water Conservation, International Society for Ecological Economics, American Agricultural Economics Association, and Western Regional Science Association

UNIVERSITY EXPERIENCE

Professor - Department of Agricultural and Resource Economics, Colorado State University, Fort Collins, CO, July 2005 - present.

Chair and Professor - Department of Agricultural and Resource Economics, Colorado State University, Fort Collins, CO, October 2003 – June 2005.

Acting Chair, Professor and Graduate Program Coordinator -Department of Agricultural and Resource Economics, Colorado State University, Fort Collins, CO, June 2002 – October 2003.

Professor and Graduate Program Coordinator - Department of Agricultural and Resource Economics, Colorado State University, Fort Collins, CO, 1992 - 2002.

Professor - Department of Agricultural and Resource Economics, Colorado State University, Fort Collins, CO, 1983-1992.

Director - Technical Support to Mission (TSM) Contract with USAID, Jakarta, Indonesia. Colorado State University, Ft. Collins, CO, 1986-1989.

Professor - Department of Economics, Colorado State University, Fort Collins, CO, 1979-1983.  
Associate Professor - Department of Economics, Colorado State University, Fort Collins, CO, 1975-1979.

Assistant Professor - Department of Economics, Colorado State University, Fort Collins, CO, 1971-1975.

Economist - Institute of Behavioral Science, University of Colorado, Boulder, CO, 1971-1973.

### INTERNATIONAL PROFESSIONAL WORK EXPERIENCE

Principal investigator on project titled "Correlation and Analysis of Socio-Economic and Physical Land Resource Data for the Model Farm Projects." For USAID/Jakarta, November 2, 1986 to December 2, 1986 in Indonesia.

Principal investigator on project titled "Economic Analysis of the Model Farm Program and Its Subsidization under the Citanduy II Project." For USAID/Jakarta, July 13, 1987 to August 22, 1987 in Indonesia.

Principal investigator on project titled "Economic Analysis of the Model Farm Program and Its Subsidization under the Citanduy II Project." For USAID/Jakarta, January 4, 1988 to February 13, 1988 in Indonesia.

Principal investigator on study titled "Planning for the Economic Evaluation of the Upland Agriculture and Conservation Project." For USAID/Jakarta, July, 10, 1989 to August 18, 1989 in Indonesia.

Principal investigator on project titled "Recommendations for Economic Impact Analysis of the Upland Agriculture Soil Conservation Project." For Development Alternatives, Inc. under contract with USAID/Jakarta. January 2-18, 1991 in Indonesia.

Principal investigator on project titled "Economic Impact Analysis of the Upland Agriculture Soil Conservation Project." For Development Alternatives, Inc. under contract with USAID/Jakarta. January 3-24, 1992 in Indonesia.

Co-principal investigator on project titled "Economic and Environmental Impact Concerns of Hidrovia Project in Argentina, Bolivia, Brazil, Paraguay and Uruguay." For Wetlands for the Americas, funded by Alton Jones Foundation. September 1992 -March 1993 in Argentina, Bolivia, Brazil, Paraguay and the U.S.

Principal investigator on project titled "Sustainability of Upland Agriculture Soil Conservation Project." For Development Alternatives, Inc. under contract with USAID/Jakarta. January 23 - February 6, 1993 in Indonesia.

Co-principal investigator on project titled "Sustainable Management Plan for the Natural Resources of the Western Gran Chaco of Argentina, Bolivia, and Paraguay." Collaborative Studies Grant from the John D. and Catherine T. MacArthur Foundation. January, 1991 - December, 1995 in Argentina, Bolivia, Paraguay and the U.S.

Visiting Professor, Centro de Zoología Aplicada, Universidad Nacional de Córdoba, Córdoba, Argentina. Taught graduate class in Ecological Economics. October 28 - December 11, 1996 in Argentina.

Principal investigator on project titled "Evaluation of 'Análisis De Optimización Económica y Evaluación Financiera De Las Obras De Navegación'" For United Nations Office for Project Services, May 1996.

Co-principal investigator on project titled "Review and Critique of Paraguay-Parana Economic Feasibility Study." For the World Wildlife Fund, Canada. In Argentina, Brazil and Paraguay September 1997-July, 1998.

Visiting Professor, Centro de Zoología Aplicada, Universidad Nacional de Córdoba, Córdoba, Argentina. Taught graduate class in Ecological Economics. November 14-28, 1998.

Visiting Professor, Centro de Zoología Aplicada, Universidad Nacional de Córdoba, Córdoba, Argentina. Taught graduate class in Ecological Economics. May 14-25, 2001.

Principal Investigator on project titled "Evaluation of Financial and Environmental Operation of Sociedad Financiera Ecuatorial, Ecuador" for the Multilateral Investment Fund, Inter-American Development Bank, Washington, D.C. In Ecuador May 16-25, 2003.

### TEACHING EXPERIENCE

EC 102 Principles of Microeconomics  
EA/EC 240 Issues in Environmental Economics  
EC 306 Intermediate Microeconomics  
EA/EC 340 Introduction to Natural Resource Economics  
EA/EC 348 Land Economics  
EC 360 Urban and Regional Economics  
EA/EC 380 Ecological Economics  
EA/EC 540 Natural Resource Economics  
EA/EC 541 Environmental Economics  
EC 560 Urban Economics  
EA/EC 792 Natural Resource Economics Seminar

## JOURNAL ARTICLES

1. "Effects of Pricing a 'Free' Good: A Study of the Use of Admission Fees at the California Academy of Science," Land Economics, (November 1974). With David W. Seckler.
2. "Effects of Pricing a 'Free' Good: Reply," Land Economics (August 1975). With David W. Seckler and Edward W. Sparling.
3. "The Perverse Dynamics of Urban Growth: A Conspiracy Theory," Growth and Change (October 1975). With David W. Seckler.
4. "Equity and Urban Growth: A Study of Real Property Appreciation in San Jose, California," American Journal of Economics and Sociology, Vol. 36, No. 3 (July 1977).
5. "Economics of Irrigation Return Flow Quality," Western Journal of Agricultural Economics, Vol. 1, No. 1 (June 1977). With Melvin B. Sabey.
6. "Urban Use of Agricultural Land: A Case Study of Fort Collins, Colorado," Western Journal of Agricultural Economics, Vol. 1, No. 1 (June 1977). With Melvin B. Sabey.
7. "Improving Irrigation Return Flow Quality with a Water Rental Market," Water Resources Bulletin, Vol. 14, No. 4 (August 1978). With Melvin B. Sabey.
8. "Projecting Regional Population with an Input-Output Model," Growth and Change, Vol. 10, No. 3 (July 1979).
9. "Reply to Discussion by J.L. Thomas: Improving Irrigation Return Flow Quality With a Water Rental Market," Water Resources Bulletin, Vol. 15, No. 1 (February 1979).
10. "Why the Great Colorado Plowout?" Journal of Soil and Water Conservation, Vol. 39, No. 4 (July-August, 1984). With John E. Young.
11. "Economics of Timing Storm Drainage Improvements," Water Resources Research, Vol. 20, No. 10 (October 1984). With Harold C. Cochrane.
12. "A Fiscal Case for Investing in Urban Parks," Journal of Urban Analysis and Public Management, Vol. 8, No. 2 (1985).
13. "Economic Causes of Grassland Conversions in Colorado," Forum of the Association for Arid Land Studies, Vol. 1, (April 1985).
14. "Dusting Off the Sodbuster Issue," Journal of Soil and Water Conservation, Vol. 40, No. 2 (November-December, 1985).

15. "Urban Costs of Wind Erosion," Forum of the Association for Arid Land Studies, Vol. 2, April, 1986.
16. "Estimating Off-Site Costs of Wind Erosion in New Mexico," Journal of Soil and Water Conservation, 41(6), November/December, 1986. With Steven L. Piper.
17. "Re-examination of the Off-Site Costs from Wind Erosion in New Mexico." Journal of Soil and Water Conservation. 44(4), July/August, 1989. With Steven Piper.
18. "Economics of Reducing Off-Site Costs of Wind Erosion." Land Economics. 65(4), November, 1989.
19. "Economic Versus Physical Criteria for Targeting Wind Erosion Control." Forum of the Association of Arid Land Studies. Vol. 5, 1989.
20. "Targeting Wind Erosion Reduction Measures Based Upon Off-Site Costs." Journal of Soil and Water Conservation. 44(6). Nov/Dec, 1989.
21. "Constraints to Conservation Farming in Java's Uplands." Journal of Soil and Water Conservation. 45(3). May/June, 1990. With Harold C. Cochrane.
22. "Subsidization of Upland Conservation in West Java: The Citanduy II Project." Bulletin of Indonesian Economic Studies. 26(2). August 1990. With Harold C. Cochrane.
23. "Sustainability of Indonesia's Upland Conservation Projects." Bulletin of Indonesian Economic Studies. 30(1), April 1994. With Hadi S. Pasaribu and Sapta P. Ginting.
24. "Critical Environmental Costs of the Paraguay-Paraná Waterway Project in South America." Ecological Economics, 15(1), October 1995. With Enrique H. Bucher.
25. "Project Evaluation and Economic Development: On Using Benefit-Cost Analysis to Evaluate Hidrovia." Ecological Economics. December, 1996. Vol. 19, No. 3. With Enrique H. Bucher.
26. "Colorado Soil Conservation Policy and the Potential for Increased Efficiency." Forum of the Association for Arid Land Studies, Vol 12, 1996. With Anne C.S. Renfrow.
27. "The South American Hidrovia Debate." Choices. First Quarter 1997. With Jennie S. Hughes.
28. "Reviving the Chaco's Living Dead." World Conservation. IUCN. March 1997. With Enrique H. Bucher.
29. "Indonesia's Upland Soil Sprouts Seeds of Change." Forum for Applied Research and Public Policy. Vol. 12, No. 4, Winter, 1997.

30. "Economics of Natural Resource Conservation in the Argentinian Chaco." Desarrollo Agroforestal y Comunidad Campesina. No. 28. [Note: This is an invited publication in GTZ's journal for South America]. September, 1997. With Enrique H. Bucher.
31. "Overestimating Benefits and Underestimating Costs: The Case of the Paraguay-Paraná Navigation Study" Journal of Impact Assessment and Project Analysis. 16(4), December 1998.
32. "Sustainable Management of the Gran Chaco of South America." Journal of Environmental Management. (1999) 57. With Enrique Bucher.
33. "Efficiently Allocating Soil Conservation Funds: A Case Study in Colorado." Forum of the Association for Arid Land Studies. Vol. XV (1999). With Todd C. LaBandt.
34. "Reducing Wind Erosion and Attaining Air Quality Standards: Preliminary Findings and Research Agenda." Forum of the Association for Arid Land Studies. Vol. XV (1999). With Todd C. LaBandt.
35. "Estimating the economic benefits of maintaining residential lake levels at an irrigation reservoir: A contingent valuation study." Water Resources Research, 41, W08405, doi:10.1029/2004WR003812 (2005). With John Loomis and Adam Smith.

#### BOOKS, MONOGRAPHS AND CHAPTERS IN BOOKS

1. Economics of Irrigation System Consolidation, Technical Bulletin 105, Experiment Station, Colorado State University, Fort Collins, CO, December 1969. With D. W. Seckler and D.D. Rohdy.
2. Evaluation of Irrigation Water and Nitrogen Fertilizer in Corn Production, Technical Bulletin 197, Experiment Station, Colorado State University, Fort Collins, CO, January 1970. With Melvin D. Skold and R.E. Danielson.
3. "Evaluating Alternative Futures in the West," in Population and Development: Alternative Futures in the West, Victor A. Koelzer, Maurice L. Albertson, and Janakiram Subramanian, editors. (Fort Collins: Colorado State University, 1974.) With David W. Seckler.
4. Assessment of Research on Natural Hazards. (Cambridge: The MIT Press, 1975.) Contributor with Gilbert F. White, et al.
5. Frost and Freezing Hazard in the United States: A Research Assessment, Program on Technology, Environment, and Man, Monograph #NSF-RA-E-75-015, (Boulder Institute of Behavioral Science, University of Colorado, 1975.)

6. Hurricane Hazard in the United States: A Research Assessment, program on Technology, Environment, and Man, Monograph #NSF-RA-E-75-007, (Boulder Institute of Behavioral Science, University of Colorado, 1975). With Waltraud A.R. Brinkmann, et al.
7. Consolidation of Irrigation Systems: Phase II, Engineering, Legal, Socio-logical and Economic Requirements for Consolidation, Completion Report Series No. 52, Environmental Resources Center, Colorado State University, Fort Collins, CO, January 1975. With G.V. Skogerboe, G.E. Radosevich, and E.C. Vlachos.
8. "An Environmental Case for Marketing Irrigation Water," Colorado Agribusiness Roundup, Cooperative Extension Service, Fort Collins, CO, Winter 1978-1979.
9. "An Economic Systems Approach To Reducing Irrigation Return Flow Pollution," in Environmental Systems Analysis and Management, S. Rinaldi, ed., (Amsterdam: North-Holland Publishing Company, 1982).
10. Increasing the Economic Efficiency and Affordability of Storm Drainage Projects, Colorado Water Resources Research Institute, Colorado State University, Fort Collins, CO, September 1983. With Harold C. Cochrane.
11. "Economics of Plowing Fragile Grassland in Colorado," Colorado Economic Issues, Cooperative Extension Service, Fort Collins, CO. Vol. 8, No. 6 (February 1984), With John E. Young.
12. "Policy Assessment on Plowing Fragile Grassland in Colorado," Colorado Agribusiness Roundup, Cooperative Extension Service, Fort Collins, CO, Spring 1984.
13. Off-Site Economic Costs of Wind Erosion in New Mexico, ANRE Research Report AR:85-3, Department of Agricultural and Natural Resource Economics, Colorado State University, Fort Collins, CO, July 1985.
14. "Assessing Economic Benefits Of Soil Conservation: Indonesia's Upland Model Farm Program." William C. Moldenhauer and Norman W. Hudson, ed., Conservation Farming on Steep Lands. (Ankeny, Iowa: Soil and Water Conservation Society and World Association of Soil and Water Conservation, 1988). With Harold Cochrane.
15. "Government Incentives for Soil Conservation." Sitanala Arsyad, Istiqlal Amien, Ted Sheng, and William Moldenhauer, ed., Conservation Policies for Sustainable Hillslope Farming. (Ankeny, Iowa: Soil and Water Conservation Society, 1992).
16. "Sustainability and Subsidies in the Upland Agricultural and Conservation Project." Lokakarya Nasional Pembangunan Daerah Dalam Rangka Pengelolaan Usahatani Lahan Kering Dan Perbukitan Kritis. (Jakarta, Indonesia: Proyek Pertanian Lahan Kering Dan Konservasi Tanah, 1993). With Hadi Pasaribu and Sapta Ginting.

17. Hidrovia: An Initial Environmental Examination of the Paraguay-Parana Waterway. (Manomet, Mass.: Wetlands for the Americas, 1993). With Enrique Bucher, et. al.
18. "Sustainability of Indonesia's Upland Conservation Project." Ted Napier (ed). Adopting Conservation on the Farm: An International Perspective on the Socioeconomics of Soil and Water Conservation. Ankeny, Iowa: Soil and Water Conservation Society, 1994. With Hadi S. Pasaribu and Sapta Putra Ginting.
19. "The Evolving Economic Evaluation of Hidrovia: Problems and Issues" in Hidrovia: Bright Future or Development Nightmare?, ed. Otto T. Solbrig. Cambridge, MA. Harvard University, David Rockefeller Center for Latin American Studies, 1996.
20. "Socio-Economics of Soil Conservation in Indonesia" in S.A. El-Swaify and D.S. Yakowitz (ed), Multiple Objective Decision Making for Land, Water and Environmental Management, St. Lucie Press, Boca Raton, FL, 1998 (ISBN:1-57444-091-8).
21. "Including Economics in the Sustainability Equation: Soil Conservation in Indonesia" in H.P. Blume, H. Eger, E. Fleischhauer, A. Hebel, C. Reij, and K.G. Steiner (ed.), Towards Sustainable Land Use: Furthering Cooperation Between People and Institutions. Reiskirchen, Germany: GeoScience Publisher, 1997 (ISBN: 3-923381-42-5).
22. "Sustainable Land Use Management in the South American Gran Chaco" in H.P. Blume, H. Eger, E. Fleischhauer, A. Hebel, C. Reij, and K.G. Steiner (ed.), Towards Sustainable Land Use: Furthering Cooperation Between People and Institutions. Reiskirchen, Germany: GeoScience Publisher, 1997 (ISBN: 3-923381-42-5). With Enrique H. Bucher and Carlos Saravia Toledo.
25. Fact or Fiction: A Review of the Hydrovia Paraguay-Paraná Official Studies. 1999. Toronto, Canada. World Wildlife Fund/World Wide Fund for Nature (WWF). pp. 217. Huszar, et.al.
26. Incentives in Soil Conservation: From Theory to Practice. 1999. Enfield, New Hampshire. Science Publishers, Inc. (ISBN 1-57808-061-4). Editor with David Sanders, Samran Sombatpanit and Thomas Enters.
27. "Reducing Wind Erosion Damages and the Conservation Reserve Program." Soil and Water Conservation Policies and Programs: Successes and Failures. Napier, T.L., Napier, S.M. and Tvrdon, J. (ed). New York: CRC Press, 2000. With Jennie Hughes and Dana Hoag. (ISBN 0-8493-0005-3).
28. "Is Soil Conservation Policy in the U.S. Sustainable Development?" Soil and Water Conservation Policies and Programs: Successes and Failures. Napier, T.L., Napier, S.M. and Tvrdon, J. (ed). New York: CRC Press, 2000. With Jennie Hughes and Dana Hoag. (ISBN 0-8493-0005-3).

29. "Socioeconomic consequences of land degradation in the Gran Chaco of South America" in Response to Land Degradation ed. by E.M. Bridges, I.D. Hannam, L.R. Oldeman, F.W.T. Penning de Vries, S.J. Scherr and Samran Sombatpanit. Enfield, New Hampshire: Science Publishing, Inc., 2001 (ISBN 1-57808-153-X).

#### CONTRACT AND CONSULTING REPORTS

1. Study of Risk Hedgeability for Cattle Feeders in the Western States, Commodity Exchange Authority, Chicago, IL, June 1972. With David W. Seckler and Forrest E. Walters.
2. "Economic Incentives and Disincentives," in Exploring Options for the Future: A Study of Growth in Boulder County, Vol. VI, Boulder Area Growth Study Commission, Boulder, CO, November 1973. With David W. Seckler.
3. Cost Effectiveness Comparison of Alternative Data Collection Systems, Western Scientific Services, Inc., Fort Collins, CO, September 1974. With S. Lee Gray. (Reprinted in Use of the ERTS-1 Satellite Data Collection System in Monitoring Weather Conditions for Control of Cloud Seeding Operations, U.S. Department of the Interior, Bureau of Reclamation, July 1974.)
4. Study of Fort Collins-Loveland Airport Expansion Plan, report to the Fort Collins City Council, Airport Committee, Designing Tomorrow Today, Fort Collins, CO, April 1975.
5. Cost-Effectiveness Analysis of the LANDSAT-2 Data Collection Systems, Western Scientific Services, Inc. (for inclusion in a study for the Bureau of Reclamation), September 1975. With S. Lee Gray.
6. Merger of Irrigation Systems for Water Management, Office of Water Resources and Technology, OWRT Project #B-083-COLO, Environmental Resources Center, Colorado State University, Fort Collins, CO, 1976. With E.C. Vlachos, G.E. Radosevich, and G.V. Skogerboe.
7. Evaluation of Colorado Regional Population Projections 1970 to 2000: The CPE II Model, Larimer-Weld County Council of Governments, Loveland, CO, February 1976.
8. Interindustry Analysis and Economic Profile of the Larimer-Weld Region, Larimer-Weld County Council of Governments, Loveland, CO, October 1976. With S. Lee Gray and John R. McKean.
9. Economic Impact Analysis of Superior Oil Shale Development in Northwestern Colorado, U.S. Bureau of Land Management, January 1978. With S. Lee Gray and J.R. McKean.

10. Socio-Economic and Institutional Factors in Irrigation Return Flow Quality Control, Vol. 1: Methodology, Robert S. Kerr Environmental Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Ada, Oklahoma, August 1978. With E.C. Vlachos, et al.
11. Socio-Economic and Institutional Factors in Irrigation Return Flow Quality Control, Vol. 2: Yakama Valley Case Study, Robert S. Kerr Environmental Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Ada, Oklahoma, August 1978. Senior author with E.C. Vlachos, et al.
12. Socio-Economic and Institutional Factors In Irrigation Return Flow Quality Control, Vol 3: Middle Rio Grande Valley Case Study, Robert S. Kerr Environmental Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Ada, Oklahoma, August 1978. With W.L. Trock, et al.
13. Socio-Economic and Institutional Factors in Irrigation Return Flow Quality Control, Vol. 4: Grand Valley Case Study, Robert S. Kerr Environmental Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Ada, Oklahoma, August 1978. With G.V. Skogerboe, et al.
14. Socio-Economic and Institutional Factors in Irrigation Return Flow Quality Control, Executive Summary, Robert S. Kerr Environmental Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Ada, Oklahoma, August 1978. With E.C. Vlachos, et al.
15. Economic Evaluation of Flood Adjustments in the Dry Creek Drainage, City of Fort Collins, CO, January 1981. With Harold C. Cochrane.
16. Economic Evaluation of Flood Adjustments in the Spring Creek Drainage, City of Fort Collins, CO, August 1981. With Harold C. Cochrane.
17. Fiscal Impact Analysis of the Loveland Housing Authority Program, prepared for the Loveland Housing Authority, Loveland, CO, May 1982.
18. Increasing the Economic Efficiency and Affordability of Storm Drainage Projects, State Organized Research Program, Colorado Commission on Higher Education, Denver, CO, September 1983. With Harold C. Cochrane.
19. Off-Site Costs of Wind Erosion in New Mexico, Soil Conservation Service, U.S. Department of Agricultural, Albuquerque, New Mexico, July 1985.
20. Analysis of Economic Impact of a Landslide at Beaver Creek. Prepared for Saunders, Snyder, Ross & Dickson, Denver, CO., September, 1985. With Harold C. Cochrane.

21. Analysis of Grand Junction and Mesa County Economies With Emphasis On the Hotel/Lodging and Eating/Drinking Sectors. Prepared for Calkins, Kramer, Grimshaw & Haring, Denver, CO., April, 1986.
22. Benefits of Soil and Water Conservation Projects in Indonesia: An Analysis of the Beneficiary Impact Study of the Citanduy Watershed Area. A cooperative study of the Unit Studi Dan Evaluasi Sosial Ekonomi (USESE), Ciamis, Indonesia and the International School of Agricultural and Resource Development (ISARD), Colorado State University, Fort Collins, CO USA. February, 1986. With Bungaran Saragih and Harold C. Cochrane.
23. On the Correlation and Analysis of Socio-Economic and Physical Land Resource Data for the Model Farm Projects. Report to U.S. Agency for International Development and Unit Studi Dan Evaluasi Sosial Ekonomi, Indonesia. International School for Agricultural and Resource Development, Colorado State University, November, 1986.
24. Economics of On-Site Conservation Practices In Terms of Off-Site Benefits. Final Report to Soil Conservation Service, USDA, Albuquerque, NM. Fort Collins, CO: Department of Agricultural and Resource Economics, Colorado State University, November 1987.
25. Economic Analysis of the Model Farm Program and Its Subsidization Under the Citanduy II Project: Phase 1 Report. Report to U.S. Agency for International Development, Indonesia. Fort Collins, CO: Department of Agricultural and Resource Economics, Colorado State University, August 1987. With Harold C. Cochrane.
26. Economic Analysis Of The Model Farm Program And Its Subsidization Under The Citanduy II Project: Phase 2 Report. Report to U.S. Agency for International Development, Indonesia. International Center for Agricultural & Resource Development, Colorado State University, June, 1988. With Harold C. Cochrane.
27. Economic Analysis Of The Model Farm Program And Its Subsidization Under The Citanduy II Project: Executive Summary. Report to U.S. Agency for International Development, Indonesia. International Center for Agricultural & Resource Development, Colorado State University, June, 1988. With Harold C. Cochrane.
28. Economic Analysis Of The Model Farm Program And Its Subsidization Under The Citanduy II Project: Phase 1 Report. Report to U.S. Agency for International Development, Indonesia. International Center for Agricultural & Resource Development, Colorado State University, January, 1988. With Harold C. Cochrane.

29. Economic Impact Analysis of the Upland Agricultural and Conservation Project. Report to U.S. Agency for International Development, Indonesia. International Center for Agricultural & Resource Development, Colorado State University, August 1988. With Harold C. Cochrane.
30. Economic Analysis of Demand and Need for Supplemental Irrigation Water in the Savery Creek/Little Snake River Drainage. Prepared for the U.S. Environmental Protection Agency, Denver, Colorado. May 15, 1990.
31. Recommendations for Economic Impact Analysis of the Upland Agriculture and Soil Conservation Project. Prepared for Development Alternatives, Inc. for USAID/Jakarta. January 18, 1991.
32. Economic Impact Analysis of the Upland Agriculture and Soil Conservation Project. Prepared for Development Alternatives, Inc. for USAID/Jakarta. January 24, 1992.
33. Sustainability of Upland Agriculture Soil Conservation Project." Prepared for Development Alternatives, Inc. for USAID/Jakarta. February 6, 1993.
34. Hidrovia: An Initial Environmental Examination of the Paraguay-Parana Waterway. Prepared for Wetlands for the Americas, Manomet, Mass. March, 1993. With Enrique Bucher, et. al.
35. "Evaluation of Analisis De Optimizacion Economica Y Evaluacion Financiera De Las Obras De Navegacion." (i.e., Evaluation of the Economic Feasibility Study for Hidrovia conducted by Hidroservice, Louis Berger and EIH.) Prepared for the United Nations Office for Project Services. May 21, 1996.
36. "Review and Critique of the Hydrovia Paraguay-Paraná Economic Feasibility Study." Prepared for the World Wildlife Fund, Toronto, Canada. July 1997.
37. "Evaluation of Financial and Environmental Operation of Sociedad Financiera Ecuatorial, Ecuador." Prepared for the Multilateral Investment Fund, Inter-American Development Bank, Washington, D.C. July 2003. With Sergio Castello.

#### PAPERS PRESENTED AT PROFESSIONAL MEETINGS

1. "Urban and Regional Growth: An Optimality Model," *Bureau of Land Management Natural Resources Economics Institute*, Colorado State University; Fort Collins, CO, December 1972.
2. "An Economic Evaluation of Alternative Futures in the West," *Proceedings Conference on Development and Population: Alternative Futures in the West*, Colorado State University, Fort Collins, CO, August 1973. With David W. Seckler.

3. "The Permanently Increasing Price of Beef," *Joint American Agricultural Economics Association/Western Agricultural Economics Association/Canadian Agricultural Economics Meetings*, Edmonton, Canada, August 1973. With David W. Seckler.
4. "Correcting the Live Cattle Futures Price Bias," *Southern Agricultural Economics Association Meetings*, Memphis, TN, February 1974. With Forrest E. Walters.
5. "A Theory and Application of Land Values as a Social Indicator," *Western Regional Science Association Meetings*, Long Beach, CA, February 1974.
6. "The Live Cattle Futures Market Failure: An Alternative," *Proceedings of the Western Agricultural Economics Association Meetings*, Moscow, ID, July 1974.
7. "Basis of the Growth/No Growth Controversy," *Conference of Colorado State County Treasurers*, Colorado State University, Fort Collins, CO, October 1974.
8. "Equity and Urban Growth: A Study of Real Land Appreciation in San Jose, California," *Western Regional Science Association Meetings*, Palm Springs, CA, February 1975.
9. "A Market Solution to Irrigation Return Flow Pollution: A Case Study of the Yakama Vally," *Western Regional Science Association Meetings*, Tucson, AZ, February 1977. With Melvin B. Sabey.
10. "Projecting Population With an Input-Output Model: /A Case Study of Colorado Planning Region 2," *Western Regional Science Association Meetings*, Sacramento, CA, February 1978.
11. "Improving Regional Population Projections with Input-Output Models: A Case Study," *Western Regional Science Association Meetings*, Bozeman, MT, July 1978.
12. "An Economic Approach to Correcting Pollution From Irrigated Agriculture," *Water Resources and Land use Planning Conference*, Sponsored by NATO, Lovain-la-Neuve, Belgium, July 1978.
13. "Impact Analysis of Oil Shale Development on the Economy of Northwestern Colorado," *Western Regional Science Association Meetings*, San Diego, CA, February 1979. With S.L. Gray and J.R. McKean.
14. "Fiscal Balance and Urban Parks: A Case Study of Fort Collins, Colorado," *Western Regional Science Association Meetings*, Monterey, CA, February 1980. With Teri L. Perkins.
15. "A Fiscal Case of Investing in Urban Parks," *Western Regional Science Association Meetings*, Newport Beach, CA, February 1981. With Sherry L. Malone.

16. "An Economic Systems Approach to Reducing Irrigation Return Flow Pollution," in *Environmental Systems Analysis and Management*, Rome, Italy. September 1981.
17. "Economic Optimization of Stormwater Drainage Systems: A Case Study," *Western Regional Science Association Meetings*, Santa Barbara, CA, February 1982. With Harold C. Cochrane.
18. "Economics of Grassland Plowing and Its Regulation," *Soil Conservation Society of America Meetings*, Hartford, CT, August 1983. With John E. Young.
19. "Policy Assessment on Plowing Fragile Grassland in Colorado," *Howard E. Conklin Conference on Rural Land Use and Public Policy*, Cornell University, Ithica, NY, October 1983. With Kenneth C. Nobe and John E. Young.
20. "Timing Public Investments in Storm Drainage Projects," *Western Regional Science Association Meetings*, Monterey, CA, February 1984. With Harold C. Cochrane.
21. "Sodbuster Economics," *Western Regional Science Association Meetings*, San Diego, CA, February 1985.
22. "Economics of Plowing Fragile Grassland in Colorado," *Joint Western Social Science Association/Association for Arid Land Studies Meetings*, Fort Worth, TX, April 1985.
23. "Off-Site Economic Costs of Wind Erosion in New Mexico," *Proceedings of Symposium On the Off-Site costs of Soil Erosion*, Co-sponsored by the Conservation Foundation and the Soil conservation Service, Washington, DC, May 1985.
24. "Nature and Causes of the Plowout Problem In Colorado," *Arid Lands Today and Tomorrow: An International Arid Lands Research and Development Conference*, Tucson, AZ, October, 1985.
25. "Off-Site Costs of Wind Erosion in New Mexico," *Proceedings of International Erosion Control Association Conference*, Dallas, TX, February 1986.
26. "Urban Costs of Wind Erosion in New Mexico," *Western Social Science Association/Association for Arid Land Studies Meetings*, Reno, NV, April 1986.
27. "Off-Site Costs of Wind Erosion in New Mexico." *Proceedings of International Erosion Control Association Conference XVIII*, Dallas, TX, February 27-28, 1986.
28. "Economic Analysis of Indonesia's Citanduy Watershed Project." *Proceedings of Conference XVIII of the International Erosion Control Association*. Pinole, CA: International Erosion Control Association, February 1987. With Bungaran Saragih and Harold C. Cochrane.

29. "Economic Benefits of Agricultural Production and Conservation Projects in Indonesia." *Western Regional Science Association Meeting*, Kona, Hawaii, February 18-22, 1987. With Bungaran Saragih and Harold C. Cochrane.
30. "Assessing Economic Benefits of Soil Conservation: Indonesia's Uplands Model Farm Program." *Workshop on Soil and Water Conservation on Steep Lands*. Sponsored by the SCS, USAID and World Resources Institute. San Juan, Puerto Rico, March 22-27, 1987. With Harold C. Cochrane and Bungaran Saragih.
31. "Economic Analysis of Subsidies for Reducing Soil Erosion in Indonesia: Phase 1." *Proceedings of the International Erosion Control Association's XIX Annual Conference*. New Orleans, LA. February 1988. With Harold C. Cochrane.
32. "Economics of Off-Site Damages and Control of Wind Erosion." *Proceedings of 1988 Wind Erosion Conference*. Lubbock, Texas. April 1988. Sponsored by Texas Tech University and the Soil Conservation Service.
33. "Targeting Wind Erosion Reduction Measures." *Western Regional Science Association Meetings*. San Diego, CA. February 19-22, 1989.
34. "Economic Versus Physical Criteria for Targeting Wind Erosion Control." *Association of Arid Land Studies/Western Social Science Association Meetings*. Albuquerque, NM. April 26-28, 1989.
35. "Economic Impacts of Off-Site Damages from Wind Erosion." *Proceedings of the Great Plains Agricultural Council Annual Meetings*. Lubbock, TX. June 6-8, 1989.
36. "Potential Off-Site Benefits from Targeting Wind Erosion in New Mexico." *Proceedings of the Western Agricultural Economics Association*. Coeur d'Alene, Idaho. July, 1989.
37. "Subsidization of Upland Conservation in West Java: The Citanduy II Project." *Western Regional Science Association Meetings*. Molokai, Hawaii. February 24, 1990. With Harold C. Cochrane.
38. "Economics of Bench Terracing in West Java." *Western Regional Science Association Meetings*. Monterey, California, February 24-28, 1991.
39. "Government Incentives and Subsidies for Soil and Water Conservation in West Java." *Proceedings of International Workshop on Conservation Policies for Sustainable Hillslope Farming*. Solo, Indonesia, March 11-15, 1991.
40. "Economics of Wind Erosion Control." *Proceedings of International Wind Erosion Workshop of GIGR*. Budapest, Hungary, September 10-12, 1991.

41. "Sustainability and Subsidies in the Upland Agricultural and Conservation Project." *Proceedings of the National Workshop on the Management of Upland Farming*. Jakarta, Indonesia, February 2-4, 1993. With Hadi S. Pasaribu and Sapta Putra Ginting.
42. "Sustainability of Indonesia's Upland Conservation Projects." *Western Regional Science Association Meetings*, Tucson, Arizona, February 26, 1994. With Hadi S. Pasaribu and Sapta Putra Ginting.
43. "Trade and the Environment: Mercusor, Hidrovia and the Pantanal" at Resource Policy Consortium's *International Environmental Management and National Policy Symposium*, Washington, D.C., May 16-17, 1994, sponsored by USDA, ERS, SCS, EPA, Office of Policy, Planning and Evaluation, USAID, The World Bank, and The Farm Foundation. With Enrique H. Bucher and Terry Boyle. (Invited paper)
44. "The Economics of MERCOSUR's Hidrovia Project When The Environmental Impacts To The Pantanal Are Included" at *Third Pacific Regional Science Institute on Microregional Interaction in a Free Trade Environment: Potential Costs, Potential Benefits*, Cuernavaca, Mexico, June 11-15, 1994. With Enrique H. Bucher.
45. "Assessing the Economic Returns from the CRP Program as a Basis for Future Policy" at *49th Soil and Water Conservation Society Meeting*, Norfolk, Virginia, August 7-10, 1994. With Jennie Hughes and Dana Hoag.
46. "The Salta Model: Economic Feasibility" at *The South American Chaco: Priorities for Sustainable Development and Biodiversity Conservation International Workshop*, Salta, Argentina, November 13-19, 1994, sponsored by The John D. and Catherine T. MacArthur Foundation, W. Alton Jones Foundation, et. al. With Carlos Saravia Toledo.
47. "A Preliminary Ecological-Economic Evaluation of Hidrovia." *Western Regional Science Association Meetings*, San Diego, California, February 22-26, 1995. With Enrique H. Bucher.
48. "Biodiversity Conservation and Economic Feasibility of a Multiple-Species Production System in the Western Chaco of Argentina". *Annual Meeting of Society for Conservation Biology*, Fort Collins, Colorado, June 7-11, 1995. With Enrique H. Bucher, Carlos Saravia Toledo and Jose M. Chani.
49. "An Economic Evaluation of the Conservation Reserve Program's Impacts on Wind Erosion". *Western Agricultural Economic Association Meetings*. Rapid City, South Dakota, July 9-12, 1995. With Jennie S. Hughes and Dana L. Hoag.
50. "Critical Environmental Costs of the Paraguay-Paraná Waterway Project in South America." *Western Agricultural Economic Association Meeting*. Rapid City, South Dakota, July 9-12, 1995. With Enrique H. Bucher.

51. "Adaptive Management: Adapting It To Species-Rich and Capital-Poor Conditions". *World Wildlife Workshop on Consumptive Use of Wild Species*. Washington, D.C., June 19-21, 1995. With Enrique H. Bucher.
52. "Socio-Economics of Soil Conservation in Indonesia." *First International Conference on Multiple Objective Decision Support Systems for Land, Water, and Environmental Management: Concepts, Approaches, and Applications*. Honolulu, Hawaii, July 23-29, 1995. With Sapta Putra Ginting and Hadi S. Pasaribu.
53. "Ecological-Economics of a Sustainable Management System for the South American Gran Chaco." *Western Regional Science Association Meetings*, Napa, California, February 25-29, 1996. With Enrique H. Bucher and Carlos Saravia Toledo.
54. "Trade Versus the Environment? An Economic Analysis of Hidrovia." *Western Regional Science Association Meetings*, Napa, California, February 25-29, 1996. With Jennie S. Hughes and Enrique H. Bucher.
55. "The Evolving Economic Evaluation of Hidrovia: Problems and Issues." *Paraná-Paraguay Hidrovia Conference*, The David Rockefeller Center for Latin American Studies, Harvard University, Cambridge, Massachusetts, April 3-4, 1996.
56. "Colorado Soil Conservation Policy and the Potential for Increased Efficiency." *Western Social Science Association and Association for Arid Land Studies Meetings*, Reno, Nevada, May 1996. With Anne C.S. Renfrow.
57. "Ecological Economic Analysis of a Sustainable Management System for the South American Gran Chaco." *Ecological Summit 96*, Copenhagen, Denmark, August 19-23, 1996. With Enrique H. Bucher and Carlos Saravia Toledo.
58. "Including Economics in the Sustainability Equation: Soil Conservation in Indonesia." *9th Conference of the International Soil Conservation Organisation*, Bonn, Germany, August 26-30, 1996. With Sapta Putra Ginting and Hadi S. Pasaribu.
59. "Sustainable Land Use Management in the South American Gran Chaco." *9th Conference of the International Soil Conservation Organisation*, Bonn, Germany, August 26-30, 1996. With Enrique H. Bucher and Carlos Saravia Toledo.
60. "Reducing Wind Erosion Damages and the Conservation Reserve Program." *International Symposium on Soil and Water Conservation Policies: Successes and Failures*. Prague, Czech Republic, September 17-19, 1996. With Jennie Hughes and Dana Hoag.
61. "Is Soil Conservation Policy in the U.S. Sustainable Development?" *International Symposium on Soil and Water Conservation Policies: Successes and Failures*. Prague, Czech Republic, September 17-19, 1996. With Jennie Hughes and Dana Hoag.

62. "Review and Critique of the Paraguay-Paraná Hidrovia Economic Feasibility Study." *Western Regional Science Association Meetings*. Monterey, California. February 18-22, 1998.
63. "Research Needs in the Economics of Wind Erosion" Invited presentation at symposium at the *American Agricultural Economics Association Meetings*, Salt Lake, Utah, August 1998.
64. "Economic Dimensions of Land Degradation in the Gran Chaco of South America." Keynote address at the *Second International Conference on Land Degradation*, Khon Kaen, Thailand, January 24-29, 1999.
65. "Efficiently Allocating Soil Conservation Funds: A Case Study in Colorado." *Western Social Science Association and Association for Arid Land Studies Meetings*, Fort Worth, Texas, April 22-24, 1999. With Todd C. LaBandt.
66. "Reducing Wind Erosion and Attaining Air Quality Standards: Preliminary Findings and Research Agenda." *Western Social Science Association and Association for Arid Land Studies Meetings*, Fort Worth, Texas, April 22-24, 1999. With Todd C. LaBandt.
67. "Political Economy of the Paraguay-Paraná Hidrovia Project in South America." *Western Regional Science Association*, Kauai, Hawaii, February 26 - March 1, 2000.
68. "The Economic Potential of Environmentally Oriented River Management." *International Conference on Waterways and Sustainable Development*, Königswinter, Germany, June 15-17, 2000. [Invited speaker]
69. "Economic Barriers and Bridges to Sustainable Resource Management in the Gran Chaco of South America." *11th International Soil Conservation Organization Conference*. Buenos Aires, Argentina, October 22-27, 2000. With E.H. Bucher.
70. "Economic Health Benefits of Soil Conservation in the Southwestern United States." *Western Regional Science Association Meetings*, Palm Springs, CA, February 25-28, 2001. With Todd C. LaBandt.
71. "Urban Values of Agricultural Water and Infrastructure". *Western Regional Science Association Meetings*, Monterey, CA, February 17-20, 2002. With Bridget N. Abraham.
72. "Microfinance in Ecuador: A Case Study of Sociedad Financiera Ecuatorial" *Western Regional Science Association Meetings*, Maui, Hawaii, February, 2004. With Sergio A. Castello.
73. "Evaluation of an Innovative Microfinance Operation in Ecuador" *Southwestern Economics Association Meetings*, New Orleans, March, 2005. With Sergio A. Castello.

