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# 34TH ANNUAL CONFERENCE

AUSTRALIAN AGRICULTURAL ECONOMICS SOCIETY  
UNIVERSITY OF QUEENSLAND, BRISBANE,  
12-15 FEBRUARY 1990

## Presidential address

Fisher, B. S. (Australian Bureau of Agricultural and Resource Economics), 'Issues in resource management'.

## Invited papers

- Carter, C. and Alston, J. (University of California, Davis), 'The benefits and costs of farm programs'.
- Chambers, B. (University of Maryland), 'What do aggregate supply and demand curves mean?'.
- Dowrick, S. (Australian National University), 'Industrialisation and economic growth'.
- Green, G. (Australian Bureau of Agricultural and Resource Economics), 'Management policies for the southeast trawl fishery: an economic analysis'.
- Kraft, D. (University of Manitoba), 'Returns to research on biotechnology'.
- Lawrence, D. and Zeitsch, J. (Industries Assistance Commission), 'A disaggregated model of agricultural production response'.
- Lindner, B. (University of Western Australia), 'Something fishy in the individual transferable quotas market'.
- Martin, W. (Australian National University), 'Agriculture in economic development'.
- Mullen, J. (NSW Agriculture & Fisheries), 'Returns to farm R&D in the wool industry'.
- Piggott, R. (University of New England), 'What is meant by market instability?'.
- Sandrey, R. and Reynolds, R. (MAFCorp New Zealand), 'Economic liberalisation: consequences for New Zealand agriculture'.
- Webb, I. (NSW Egg Corporation), 'Deregulation of the egg industry: a progress report'.
- Wright, B. (University of California, Berkeley), 'Smoothing the income of primary product exporters'.

## Contributed papers

- Ahmadi-Esfahani, F. Z. (University of Sydney), 'The political economy of the Canada-US free trade agreement'.
- Ahmadi-Esfahani, F. Z. (University of Sydney), 'An open model of curriculum content knowledge in agricultural postgraduate degree programs'.
- Antony, G., Anderson, J. R. and Kauzi, G. Y. (University of New England), 'Prediction of the aggregate effects of agricultural research: *ex-ante* analysis of export-crop research in Papua New Guinea'.
- Arch, A. M. J. (Department of Agriculture and Rural Affairs, Victoria), 'Pesticide costs - measuring welfare costs with marginal analysis'.

- ...ley, P., Cashin, P. and Verspay, H. (Department of Agriculture and Rural Affairs, Victoria), 'Assessing the equity and efficiency effects of price underwriting schemes - an application of option pricing theory'.
- ...tterham, R. L. and MacAulay, T. G. (University of Sydney), 'Price-linked farm and spatial equilibrium programming models'.
- Bewley, R., Brakey, J. and Phillips, S. (University of New South Wales), 'The current account, the dollar, and Australia's potential to export: the effects of tight monetary policy'.
- Braden, J. B., Herricks, E. E. and Larson, R. S. (University of Illinois), 'Impact targets versus discharge standards in agricultural pollution management'.
- Brakey, J. and Bewley, R. (University of New South Wales), 'The demand for Australian oil reserves: issues in long term forecasting'.
- Brennan, D. and Lindner, R. K. (University of Western Australia), 'Economies of throughput and peak transport costs in the grain distribution system'.
- Brennan, J. P., Warham, E. J. and Byerlee, D. (Department of Agriculture, NSW), 'Evaluating the economic impact of quality reducing, seed-borne diseases: lessons from karnal bunt of wheat'.
- Briggs, D. (NSW Agriculture & Fisheries), 'The optimal control of corn rootworm in Minnesota'.
- Buningh, T. W. (Queensland Department of Primary Industries), 'An economic evaluation of reverse osmosis for interregional milk transportation in Australia'.
- Chandra, S. (Australian International Development Assistance Bureau, Canberra), 'Australian aid experience in the agriculture, forestry and fisheries sectors of the less developed countries'.
- Chenhall, D., Fraser, R. and Lloyd-Smith, J. (University of Western Australia), 'Beef quality preferences in Western Australia'.
- Chisholm, A. H. (La Trobe University), 'Global climatic change: an economist's view'.
- Collins, D. and Poulter, D. (Australian Bureau of Agricultural and Resource Economics), 'Estimation of welfare gains from the parasite control program "wormkill"'.
- Cora, G., Harris, D. and Dickson, A. (Australian Bureau of Agricultural and Resource Economics), 'Pacific basin meat trade: the impact of a change in feed grain prices'.
- Cumming, R. and Parton, K. A. (University of New England), 'An investigation of the relationship between business and financial risk arising target - MOTAD: a case study in the Victorian Mallee'.
- Darwell, G. (Australian Meat and Livestock Corporation), 'The economic impact of the ban(s) on hormonal growth promotants: strategies for Australia'.
- Davidson, B., MacAulay, T. G. and Powell, R. (University of New England), 'A spatial equilibrium model of eastern Australian dairy industry'.
- Davis, J. and Bantilan, M. C. (ACIAR/National Development Studies Center), 'Import replacement and export enhancement as an



- objective of agricultural research policy: interpretation and measurement'.
- Delforce, J. (University of New England), 'Programming model of Tongan smallholder agriculture: profit maximization, subsistence consumption and risk'.
- Dickson, A., Harris, D. and Corra, G. (Australian Bureau of Agricultural and Resource Economics), 'South Korean beef industry: potential impact from liberalization'.
- Ekanayake, R. (Australian National University), 'A review of public policy in agricultural research in the United States'.
- Ekanayake, R. (Australian National University), 'Women and access to sources of household energy: value of labour and resource scarcities in peasant economies of South Asia'.
- Eshan, A. (Department of Industry, Technology and Resources, Victoria), 'Economic rent, taxation and the water industry'.
- Etherington, D. M. (Australian National University), 'Should agro-industrial research be funded from the public purse? The case of integrated coconut processing for the South Pacific'.
- Evison, D. (Forest Research Institute, New Zealand), 'The New Zealand wood products industry in the 1980's'.
- Farquharson, R. J. and Griffith, G. R. (NSW Agriculture & Fisheries), 'An assessment of the potential economic returns to the Australian beef industry from twinning'.
- Foster, M. and Davidson, H. (Australian Bureau of Agricultural and Resource Economics), 'Forecasting Australia's monthly shorn wool exports'.
- Fraser, K., 'The economics of acid soils'.
- Fraser, R. W. and Murrell, A. J. (University of Western Australia), 'The Australian wool corporation's reserve price scheme: an assessment of price stabilisation and producer benefits'.
- Fry, C. (National Australia Bank), 'Factors influencing the financial viability of the Australian family farm in the 1980's'.
- Gaffney, J. and Sondergeld, L. (Toowoomba), 'The variable costs of providing wheat segregation services in central Queensland'.
- Geen, G., Brown, D. and Pascoe, S. (Australian Bureau of Agricultural and Resource Economics), 'Management policies for the south east trawl fishery: an economic analysis'.
- Gomboso, J. (University of Western Australia), 'Economic modelling of dryland salinity in Western Australia'.
- Griffith, G. R. and Moore, W. B. (NSW Agriculture & Fisheries), 'Processing and marketing margins for lamb, mutton and beef in New Zealand'.
- Harris, D. and Corra, G. (Australian Bureau of Agricultural and Resource Economics), 'The US-Canadian free trade agreement and EC beef sales to Canada: implications for Australia'.
- Harris, M. S. and Lloyd, A. G. (University of Melbourne), 'Evaluating the returns to agricultural research: a survey'.
- Hertzler, G. (University of Western Australia), 'Dynamically optimal adoption of discrete land degrading and renewing farming techniques'.
- Holmes, W. E. (Townsville), 'Effect of changing prices and herd parameters on age of male turnoff from northern beef herds'.
- Yang, T. C. (Ohio State University), 'World soybean market competition: the case of US, Brazil and Argentina'.
- Myberg, B. (USDA Economic Research Service), 'Interactions between agricultural policies and the environment'.
- Jarvis, P., Stent, A. and Harvey, S. (MAFTech, Invermay, New Zealand), 'A stochastic model for financial forecasting at the farm level'.
- Johnson, R. W. M. (Ministry of Agriculture, New Zealand), 'Recent changes in the financial status of New Zealand farmers'.
- Jones, R. and Marshall, G. (NSW Agriculture & Fisheries), 'The economics of salinity, waterlogging and surface drainage in Benerembah irrigation district'.
- Kane, Milham and Sturgiss, 'An analysis of the demand for new horticultural crops: mangoes as a case study'.
- Keyworth, S. W. (Dwyer Leslie Pty. Ltd.), 'Kerang lakes irrigation area impact of irrigation water quality on agricultural sector income'.
- Keyworth, S. W. (Dwyer Leslie Pty. Ltd.), 'Kerang lakes irrigation area agricultural sector structure'.
- Kingston, G. A., Smith, P. and Beare, S. (Australian Bureau of Agricultural and Resource Economics), 'Japanese seafood demand'.
- Kingwell, R. (Western Australian Department of Agriculture), 'Optimal strategies for regional yield tests of wheat cultivars'.
- Kneebone, V., Beare, S., Geldard, J. and Short, C. (Department of Agriculture and Rural Affairs, Victoria), 'Demand for meat in the Middle East'.
- Lawrence, D. (Industries Assistance Commission), 'The supply response of Australian agricultural exports'.
- Lawrence, D. (Industries Assistance Commission), 'A generalised McFadden cost function for Australian agriculture'.
- Lawrence, D. and Zeitsch, J. (Industries Assistance Commission), 'A disaggregated model of Australian agricultural production response'.
- Low, J. and Hinchy, M. (Australian Bureau of Agricultural and Resource Economics), 'Estimation of supply response in Australian broadacre agriculture: the multiproduct approach'.
- MacAulay, T. G., Thomas, W. C. and Musgrave, W. F. (University of New England), 'Simultaneity in the determination of assistance to agriculture: revisited'.
- McDougall, R., Quirke, D. and Zeitsch, J. (Industries Assistance Commission), 'Industry assistance and sectoral factor income'.
- MacIntosh, R. (University of Sydney), 'The factors affecting demand for fluid milk in New South Wales'.
- MacLeod, N. D. and Johnston, B. G. (CSIRO), 'An economic framework for considering rangeland restoration options'.
- McRae-Smith, K. G., Mullen, J. D. and Griffith, G. R. (NSW Agriculture & Fisheries), 'Evaluating R & D activities in the Australian pig industry'.
- Masae, A. and Cramb, R. A. (University of Queensland), 'Women's role in agriculture in Southern Thailand: the impact of new rice technology'.



- Milham, N., Davenport, S. and Penm, J. H. (Australian Bureau of Agricultural and Resource Economics), 'Substitution relations in Australian beverage consumption'.
- Mues, C. (Australian Bureau of Agricultural and Resource Economics), 'An analysis of marketing operations for cotton in Australia'.
- Naik, G. and Leuthold, R. M. (Indian Institute of Management), 'Identifying factors affecting corn basis relationships using a general theory'.
- Nisbet, A. (Nagoya University), 'Wholesale pricing of primal cuts in Japan: a comparison of Wagyu and Holstein cattle'.
- North, R. M., Sellers, J., Katcher, K. J. and Guan, W. (University of Georgia), 'Analyzing alternative water resource management options in South China'.
- Nusantoro, A. and Cramb, R. A. (University of Queensland), 'Land-use targets in Javanese agriculture: an institutional analysis'.
- Ockwell, A. P., Parton, K. A., Nguluu, S. and Muhammad, L. (Australian Bureau of Agricultural and Resource Economics), 'Farming systems of the semi-arid tropics of Eastern Kenya: a case study of 16 farms'.
- O'Mara, L. P. and Walshaw, T. (Australian Bureau of Agricultural and Resource Economics), 'Some implications of inflation adjustment of interest payments on Australia's foreign debt'.
- O'Sullivan, M. H. (Fractionated Cane Technology Ltd.), 'Sugar cane: biological and environmental considerations, alternative uses and economies of scale'.
- Owen, K. (University of New England), 'An analysis of strategic management in the NSW wine production industry'.
- Pandey, S. (University of New England), 'An economic framework for evaluating the size of benefits from weeds research'.
- Passmore, J. G. (Queensland Department of Primary Industries), 'Profitability, stocking rates and land degradation in the Mulga region of south west Queensland'.
- Penm, J. H. and Gerardi, W. (Australian Bureau of Agricultural and Resource Economics), 'Some estimates of the price elasticity of demand for feed grains in Australia'.
- Phillips, S. and Bewley, R. (University of New South Wales), 'The effects of flexible exchange rates on Australian wool prices'.
- Piggott, R. R., Parton, K. A. and Treadgold, E. M. (University of New England), 'Indonesian rice price policy: sufficient for self-sufficiency'.
- Rauniyar, G. P. and Goode, F. M. (Pennsylvania State University), 'Rate of technological adoption for the third world agriculture'.
- Rish, B., McClintock, D. and Johnston, J. (NSW Agriculture & Fisheries), 'The costs and utilization of farm trucks for grain transport in southern NSW'.
- Sappideen, B. (Soil Conservation Service of NSW), 'Dryland salinity in New South Wales: landholder awareness and economic factors'.
- Scobie, G. M., Mullen, J. D. and Alston, J. M. (Scobie Economic Research, New Zealand), 'The returns to farm R & D in the Australian wool industry'.
- Short, C. and Beare, S. (Australian Bureau of Agricultural and Resource Economics), 'Fibre substitution in retail demand for apparel'.
- Simpson, Y. L. and Kaine-Jones, G. (University of New England), 'Cluster analysis of cotton planting strategies in the Namoi Valley'.
- Sinden, J. A. (University of New England), 'Log or preserve? An extension of the characteristics model of consumer choice to value benefits of preserving native forest'.
- Soe, U. T. (University of Sydney), 'Agricultural development in Burma: problems and prospects'.
- Sri-Ramaratnam, S. and Reynolds, R. (MAFCorp New Zealand), 'New Zealand pastoral sector supply responses'.
- Sterland, B. (Australian Bureau of Agricultural and Resource Economics), 'Australian demand for imports in the 1980's'.
- Strong, A., Johnston, J., Green, W. and Marshall, G. (NSW Department of Agriculture & Fisheries), 'Estimating the financial impact on producers of deregulation in the NSW egg industry'.
- Sumner, N. R. (CSIRO), 'Detecting misspecification of functional form in hedonic price equations using recursive residuals'.
- Tisdell, C. (University of Queensland), 'Exploring the demand for farmed giant clams and their components: approaches and problems'.
- Tunstall, A. W. (Charles Sturt University - Riverina), 'Corruption! At Flemington markets?: a case study in public policy'.
- Vere, D. T. and Griffith, G. R. (NSW Agriculture & Fisheries), 'Forecasting in the New South Wales prime lamb market'.
- Verspay, H. (Department of Agriculture and Rural Affairs, Victoria), 'Estimating input demand for the Australian meat processing industry'.
- Vlastuin, C. and Wohlers, T. (University of Queensland), 'The decision to fund a research proposal: some results for wool production research'.
- Voon, J. P. and Edwards, G. W. (La Trobe University), 'Incentives for wheat grain quality improvement research: a multilevel trade analysis'.
- Voon, J. P. and Edwards, G. W. (La Trobe University), 'Economic payoffs from reduction in the incidence of dark-cutting beef in Australia'.
- Voon, J. P. and Edwards, G. W. (La Trobe University), 'Research payoffs from quality improvement: the case of backfat depth in pig carcasses'.
- Voon, J. P. and Edwards, G. W. (La Trobe University), 'A note on the calculation of research benefits with linear and non-linear specifications of demand and supply functions'.
- Wan, G. H. (University of New England), 'Institutional effect on changes in Chinese foodgrain output and its variability'.
- Wang, K. M. and Lindner, R. K. (University of Western Australia), 'Rangeland degradation and rehabilitation under optimal management decisions'.
- Weber, J. and Chadee, D. (Massey University, New Zealand), 'Evaluating the economic impacts of climate change: a framework for policy analysis'.

- Wegener, M. K. (Bureau of Sugar Experiment Stations), 'Rick analysis in sugar cane production'.
- Whan, I. and Johnson, R. (Livestock and Meat Authority of Queensland), 'Payment for export steers according to estimated lean meat yield'.
- Whybrow, E. and Diamond, C. T. P. (Queensland Department of Primary Industries), 'Usage and important attributes of information sources employed in formulating tomato price expectations'.
- Wilcox, C. (Department of Agriculture and Rural Affairs, Victoria), 'Assessing policy options for the Australian dairy industry'.
- Williams, C. H. and Bewley, R. (University of Queensland), 'The transmission of price information at Queensland cattle auctions'.
- Wu, 'Appraising the demand for domestic and imported fruit and fruit products in Taiwan'.
- Young, R. and Carter, M. (CSIRO), 'The economic evaluation of environmental research - south-east forests case study'.