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AARES

Australian Agricultural and Resource Economics Society, Inc.

AARES Conference 2006

**50th AARES Conference
Sydney, 8-10 February 2006**

Plenary and Invited Papers

Available **conference papers** can be viewed on the [Ag Econ Search](#) website.

Opening Plenary Session

Alan Randall, *Ohio State University, USA*

Sustainability - Searching for Grand Principles, or Just Looking for Clues at the Scene of the Crime?

Presidential Address

Deborah Peterson, *Productivity Commission*

Precaution: Principles and Practice in Australian Environmental and Natural Resource Management

Distinguished Fellows Keith Campbell Address

Brian Fisher, *ABARE*

Agricultural Policy Reform in an Economy Wide Context: What Would Keith Campbell Have Thought?

After-Dinner Address

M. John Phillips

50th Anniversary of Agricultural and Resource Economics Society

Invited Speaker Session on "A 50 year perspective on Agricultural and Resource Policy"

Geoff Edwards, *La Trobe University*

50 Years of Agricultural Policy

David Godden, *NSW Department of Environment and Conservation*

Natural Resources and the Environment

J. Kerin

A Retrospective on Policy Making

Invited Speaker Session on "Frontiers in Economics"

David Bessler, Texas A&M University, USA	World Wheat and World Money: An Examination of Price Leadership among World Wheat Producers
Chris O'Donnell, University of Queensland	Some Econometric Options for Dealing with Unknown Functional Form
Bob Chambers, University of Maryland, USA	Some Empirical Implications of State-Contingent Production Models

Invited Speaker Session on "Climate Change"

Neville Nicholls, Monash University	Climate Change: Consensus or Controversy?
Ross Kingwell, WA Department of Agriculture	Is Hanrahan Sort of Right? Will Climate Change Ruin Us All?
Anna Matysek, ABARE	Perspectives on Alternative Approaches to International Climate Policy

Invited Speaker Session on "Resource Sectors and the Australian Economy"

Mick Keogh, Australian Farm Institute	In Australia's Services-Dominated Economy, Should Policymakers take any Notice of Agriculture?
Karen Schneider, ABARE	The Energy Sector in the Australian Economy
Ross Garnaut, Australian National University	The China Boom: Cyclical or Structural Change in Mineral and Energy Markets?

Contributed Papers

Below is a list of contributed papers (in alphabetical order by authors surname). Available **conference papers** can be viewed on the [Ag Econ Search](#) website.

David Adamson, Thilak Mallawaarachchi, and John Quiggin	State-contingent modelling of the Murray Darling Basin: Implications for the design of property rights PDF Part 1 PDF Part 2
Frank W. Agbola	World chickpeas market: An overview of the dynamics in global production, trade and price
Helal Ahammad and Raymond Mi	Modelling the land-use change and greenhouse gas emissions in GTEM: Some illustrative scenarios
Khorshed Alam, John Rolfe, and Peter Donaghy	An Economic Analysis of Improved Water Quality
Andrew R. Alford, Oscar J. Cacho, Garry R. Griffith, and Roger S. Hegarty	Jointly achieving profitability and environmental outcomes: methane abatement from genetic improvement in the Australian beef industry
Matthew Arthur	The Economics of Australia's Ban on New Zealand Apple Imports
John Asafu-Adjaye	Willingness to adopt soil conservation measures: A case study of Fijian cane farmers
Junfei Bai and Thomas I. Wahl	Dairy consumption in China: An empirical analysis of an urban consumer

	survey
Rodney Beard	Rent seeking, interest groups and environmental lobbying: Cane farmers versus Great Barrier Reef protectionists
Rodney Beard and Stuart McDonald	Equitable derivatives for water trading
Stephen Beare, Anna Heaney, and Lili Pechey	Irrigation infrastructure charging: Non-rival access, cost sharing and exclusion
Jeff Bennett, Chen Xie, Jincheng Zhao, Dan Liang, Lei Zhang, Guangcui Dai, and Xuehong Wang	Livelihood impacts of the conversion of cropland to forest and grassland program in North West China
Olvar Bergland	Benefit transfer: A Bayesian approach
Regina Betz	Emissions trading to combat climate change: The impact of scheme design on transaction costs
Katie Bicknell, Ross Bicknell, and George Frisvold	The joy of abstinence: Estimating the gains from asexual seed formation in rice
Katie Bicknell and Glen Greer	Clean air policy in Christchurch: Implications for efficiency
Katie Bicknell, Freisen, and McDonald	Life may be too short to drink bad wine, but how can you tell before the bottle is open?
Donna Brennan	The efficiency and equity implications of Perth's inclining block urban water tariffs
John P. Brennan and Peter J. Martin	Developing Cost Functions for a Wheat Breeding Program
Leighton Brough and Rodney Beard	A multi-agent simulation model of the impact of eutrophication on the Great Barrier Reef Lagoon using the dynamic information architecture
Michael Burton and Dan Rigby	"I won't eat it, and you can't make me": Double-hurdle models of non-participation in choice modelling experiments
Oscar J. Cacho, Susan Hester, and Daniel Spring	Applying search theory to determine the feasibility of eradicating invasive populations
Isabelle Schlupe Campo and John C. Beghin	Dairy Food Consumption, Production, and Policy in Japan
Colin A. Carter and Caroline Gunning-Trant	Do U.S. Agricultural Antidumping and Countervailing Duties Result in Trade Diversion?
Diana Chalil and Fredoun Ahmadi-Esfahani	A linear-quadratic model to estimating market power in the Indonesian palm oil industry
Adam Chambers, Jeff Connor, and Darran King	Modelling the Cost of Irrigator Response to Lower River Murray Salinity
Jeremy Cheesman and Jeff Bennett	An integrated approach for modelling the impacts of land and water resource use in the Dak Lak plateau, Viet Nam
Andy Sungnok Choi and Jeff Bennett	A Critique of Conventional Non-market Valuation: Attitudes and Action
Helena Clayton	Motivating participation in landscape recovery: Critical perspectives on responses to market incentives

Bruno Coelho and Paul Chapman	Collaborating to compete: the imperative for the South Australian citrus industry
Emma Comerford and Jim Binny	Lessons learned from the Queensland Vegetation Incentives Program - Applying auction theory to vegetation protection
Giovanni B. Concu	Conservation policies, environmental valuation and optimal jurisdiction
Jeffery Connor, John Ward, and Brett Bryan	How Cost Effective are Conservation Auctions?
David C. Cook and Mark Lonsdale	A strategic protection approach to biosecurity: Policy implications of an 'immune system' model for addressing the risks and consequences of invasive species
Bethany Cooper and Lin Crase	Equity and Efficiency Tradeoffs in Water: Prospects for Choice Modelling
Lin Crase	Cap and Trade versus Water Recovery
Lin Crase and Rob Gillespie	A Preliminary Consideration of Use and Non-Use Values Circumscribing the Lake Hume Water and Foreshore Management Plan
Jim Crosthwaite and Bill Malcolm	Farmer decisions, public policy and risk information in management of native pastures
Jim Crosthwaite, Jim Moll, Josh Dorrrough, and Bill Malcolm	Profitability and financial feasibility of strategies to increase native vegetation in Victorian hill country
Bronwyn Crowe, Bob Lindner, and Rick Llewellyn	The benefits and beneficiaries of "public" investment in herbicide use research and development
Richard J. Culas	Farmer's decision parameters on diversification and supply responses to dryland salinity
Richard J. Culas	Forestry, non-forest sector policies and the environment: a review
Tim Davis and Fredoun Ahmadi-Esfahani	Disequilibrium in the Australian wine industry: A product diversity approach
Peta Derham and Pam Welsh	Trial recommendations for the amelioration of a degraded chromosol landscape: Duri District, Northern NSW
Graeme J. Doole	Numerical Optimisation of Multiple-Phase Systems Incorporating Transition Costs
Roderick Duncan	Costs and consequences of the expropriation of FDI by host governments
Brenda Dyack and Romy Greiner	Natural Resource Management and Indigenous Well Being
Brenda Dyack and M. Ejaz Qureshi	The regional and sectoral impact of environmental water flows: Case study of tourism and recreation in the Murray Basin
Jeffrey Englin	Selection between conditional and unconditional models of recreation demand: An analysis of count and multinomial Dirichlet models
Jacinto F. Fabiosa, John C. Beghin, Fengxia Dong, Amani Elobeid, Frank H. Fuller, Holger Matthey, Simla Tokgoz, and Eric Wailes	The Impact of the European Enlargement and Common Agricultural Policy Reforms on Agricultural Markets: Much Ado about Nothing?
Mohamad Farida and Fredoun Ahmadi-Esfahani	Corruption and economic development: A critical review of literature

Iain Fraser and Robert Waschik	A Computable General Equilibrium Analysis of Export Taxes in the Australian Wool Industry
Rob Fraser	On the Choice of Tax Base to Reduce Greenhouse Gas Emissions in the Context of Electricity Generation
Vasant P. Gandhi, Lin Crase, and Gamini Herath	Comparing Indian Irrigation Institutions: What Determines Institutional Behaviour and Performance? Preliminary Empirical Observations
Tesfaye A. Gebremedhin	The Dynamics of Poverty in Urban Ethiopia
Quentin Grafton and Tom Kompas	Sydney water: Pricing for sustainability
Tennille Graham and David Pannell	Determining the potential net benefits from government intervention: A hypothetical analysis of market failure
Emily Gray and Fredoun Ahmadi-Esfahani	Is protection for sale? Agricultural biotechnology regulation in Australia
Jared Greenville and T. Gordon MacAulay	A Bioeconomic Analysis of Protected Area use in Fisheries Management
Jared Greenville and T. Gordon MacAulay	Protected Areas and the Management of Fisheries: An Institutional Perspective
Romy Greiner and Allyson Lankester	Debt-for-conservation swaps – a possible financial incentive for on-farm biodiversity conservation?
Stefan Hajkowicz	Taking a closer look at multiple criteria analysis and economic evaluation
Ahmed Hafi, Anna Heaney, and Stephen Beare	Investment in irreversible irrigation technology under uncertainty: A case study of the Murrumbidgee Irrigation Area
Jin Han, Zhang-Yue Zhou, and Natalie Stoekl	Achieving Sustainable Development in Poverty-Stricken Mountainous Areas in Rural China: Issues and Countermeasures
Steve Hatfield-Dodds	What do we need to achieve sustainable farming systems? Insights from adaptive governance for Australian native vegetation
John Hawkins, Rodney Beard, and Stuart McDonald	A multi-agent simulation model of fishery fleet dynamics for the Queensland coral reef line fishery
Robyn Hean, Oscar Cacho, and Tom Nordblom	Spatially-explicit modelling for salinity management at the catchment level
Benjamin B. Henderson, Lynn Henry, and T. Gordon MacAulay	Investment and Change in the Coconut Industry of North Sulawesi: An Equilibrium Displacement Analysis
Greg Hertzler	The First, and Still Best, Method for Non-market Valuation
Greg Hertzler and T. Gordon MacAulay	Small Holders under Risk
Ziaul Hoque and Andrew Bathgate	The economic potential of managing salinity with perennial pastures
Nazrul Islam, MoonJoong Tcha, and John Stanton	Effects of Exchange Rates on World Prices of Australian Wool
Elizabeth Jackson, Mohammed Quaddus, Nazrul Islam, Zohurul Hoque, and John Stanton	Selling raw wool by forward contract: A qualitative analysis of the pros and cons

Michael Johnson, Ian O'Connor, and Bill Malcolm	Effects of Including Agribusiness Assets in Investment Portfolios
Joshi, Singh, et al.	Economic growth, utilisation of resources and changing economic conditions of farmers
Frank Jotzo	Climate change adaptation in Asia-Pacific: An agenda for research and international collaboration
Frank Jotzo	Price caps in emissions trading: Potential and pitfalls
Olessya Karamysheva and Rob Esvelt	Integrating Triple Bottom Line Thinking Into Primary Sector Strategic Planning and Resource Management
Matt Kendall, Tom Nordblom, and Mark Quilter	Comparing economic criteria for prioritising salinity abatement in the Murray-Darling Basin (Australia) and the Colorado River Basin (USA)
Adam M. Komarek and Fredoun Ahmadi-Esfahani	An economic analysis of Ugandan agricultural constraints
Tom Kompas, Nhu Che, and Van Ha	Optimal plant surveillance measures against an exotic pest or disease in an uncertain environment
Lisa Yu-Ting Lee, Tihomir Ancev, and Willem Vervoort	Weighing Up the Cost: Economic Impact of Water Scarcity and Environmental Targets
Gudbrand Lien, J. Brian Hardaker, and Ola Flaten	Risk and economic sustainability of crop farming systems
Bob Lindner	Evaluating the Economic Impacts of Accelerated R&D
Hengyun Ma, Allan N. Rae, Jikun Huang, and Scott Rozelle	Enhancing Productivity on Dairy Farms in China: Taking the Cows to Town
John Madden	The integration of economics into community decision making in groundwater reform in NSW
John Madden	The role of indicators in agricultural policy making
Sally P. Marsh, Rick S. Llewellyn, and Stephen B. Powles	Social costs of herbicide resistance: the case of resistance to glyphosate
Jim C. McColl and Mike D. Young	Managing Change: Lessons for Water
Mark Morrison and Darla Hatton McDonald	Valuing biodiversity: A comparison of compensating surplus and compensating tax reallocation
Geoffrey Muldoon and Bill Johnston	Market chain analysis for the trade in live reef food fish
John Mullen and Jason Crean	Trends in R&D investment and productivity growth in Australian agriculture
Mark Neal and Bill Fulkerson	One size fits all? – The relationship between the value of genetic traits and the farm system
Rohan Nelson, Steve Hatfield-Dodds, et al.	A systems perspective on Australian drought policy
Jonathan Newby and Anna Heaney	Are implicit subsidies environmentally harmful? Implications of irrigation water charges in Australia
Elizabeth Nolan and Fredoun	Plant variety protection ten years after TRIPS: A critical review of the

Ahmadi-Esfahani	literature
Tom Nordblom, Iain Hume, Robyn Hean, Oscar Cacho, Michael Reynolds, John Finlayson, and Jason Kelly	Tests of policies aimed to deliver environmental service targets: Water yields and salt loads
Rina Oktaviani	Avian Influenza and its Impact on the Indonesian Economy: a CGE Approach
Rina Oktaviani and Benjamin B. Henderson	The coconut industry in North Sulawesi and its impact on the regional and Indonesian economy
David J. Pannell and Anna M. Ridley	A framework to select policy tools for dryland salinity
Ian Patrick, Graham Marshall, Muktasam Abdurrahman, and I.G.A.A. Ambarawati	Determining the Role of Social Capital in Linking Smallholders with Agribusiness
Lili Pechey	Rationalising investment in irrigation infrastructure
Liz Petersen, Greg Hertzler, and Steven Schilizzi	The impact of price and yield risk on the bioeconomics of reservoir aquaculture in north Vietnam
Liz Petersen and Geoff Muldoon	Wholesale and retail price integration in the live reef food fish trade
John C.V. Pezzey	Neither the rock nor the hard place: using payment thresholds to balance the politics and the economics of emissions control
Shauna Phillips and Fredoun Ahmadi-Esfahani	Exchange rates and FDI in the agrifood sector: A review of the theoretical and empirical literature
Nicholas Piggott and Michele Marra	Modern determinants of U.S. soybean acreage: The effects of biotechnology and recent farm policy
Jananee Raguragavan, Ben White, and Robert C. Chambers	Contracts for Land Retirement under Asymmetric Information
Andrew Reeson and John Tisdell	When good incentives go bad: An experimental study of institutions, motivations and crowding out
Richard Reeve	The economics of surface water management in rural WA towns
Trudi Rodgers, Euan Fleming, and Renato Villano	Analysis of Price and Product Competition from Imports in the Preserved Mushrooms Market in Australia
Maria Fay Rola-Rubzen and J. Brian Hardaker	Improving Market Access for Smallholders: Challenges and Opportunities
Maria Fay Rola-Rubzen, Christine Storer, and Mark Pringle	Which chain is best for me? The case of supply chain for wheat in Western Australia
John Rolfe, Peter Donaghy, and Judith Wake	Designing incentive mechanisms for cane growers at Mackay to improve water quality
John Rolfe and Prabha Prayaga	Estimating Values for Recreational Fishing at Freshwater Dams in Queensland
John Rolfe, Jill Windle, Andrew Reeson, and Stuart Whitten	Assessing the incentives needed to improve riparian management in grazing systems: Comparing experimental auctions and choice modelling approaches

Glenn Ronan, Stephen Blacketer, and Lyndal Sterenberg	Evaluating the Potential of VineAccess to Improve Supply Chain Efficiency in Australian Viticulture and Perennial Horticulture
Helen Scarborough and Jeff Bennett	Estimating intergenerational utility distribution preferences
Bassim Shebeb	Measuring Productivity Growth in the Bahraini Agriculture and Fisheries Sector
Tian Shi	Applying MBIs for sustainable natural resource and environmental management in South Australia: Challenges and opportunities
Tian Shi	Enhancing the capacity of Australian irrigation industry through better policy making: What can we learn from the past?
Phil Simmons	The Effect of Avian Influenza on Sector 3 Poultry Farms in East Java: Preliminary Results from a Survey
Rajinder Pal Singh, John P. Brennan, and John Lacy	An Economic Evaluation of the Ricecheck Extension Program in NSW
Singh and Kingra	Agrarian crisis and economic condition of landless labour in Indian Punjab: Emerging issues and policies
Stephanie Szakiel, Nhu Che, Peter Gooday, and Lisa Elliston	Measuring Capacity in Commonwealth Fisheries
Peter Tait and Ross Cullen	Some External Costs of Dairy Farming in Canterbury
Talukder	Food security, self-sufficiency and nutrition gap in Bangladesh
Jen Tatum, Nordy Waney, et al.	Replanting strategies for smallholder coconut farms in North Sulawesi
Huilan Tian and Robert D. Cairns	Sustained Development of a Population and a Resource PDF Part 1 PDF Part 2
Peter R. Tozer	The Benefits of Management Changes in Beef Enterprises on Pastoral Stations in Western Australia
Peter R. Tozer and Jeffrey R. Stokes	Optimal Feed Mill Blending
Lindsay N. Trapnell, Anna M. Ridley, Brendan P. Christy, and Robert E. White	Sustainable grazing systems: Economic and financial implications of adopting different grazing systems in North-east Victoria
Truong Truong and Tihomir Ancev	Alternative water rights regimes and implications for contracting in water markets
Sakiusa Tubuna, Henry Haszler, Phillip Hone, and Waiski Gonemaitubai	Policy Responses to Threats to Rural Household Incomes: The Case of Fiji
David Vanzetti	Open Wide: Vietnam's Agricultural Trade Policy
David Vanzetti and Ralf Peters	Another Look at the WTO Negotiations on Agriculture
Tyron J. Venn and John Quiggin	Accommodating Indigenous Cultural Heritage Values in Resource Assessment
George Verikios	Distribution of Research Gains in Multistage Production Systems: A General Equilibrium Analysis of Wool

Renato Villano, Euan Fleming, Terence Farrell, and Pauline Fleming	Productivity Change in the Australian Sheep Industry Revisited
Xuehong Wang and Jeff Bennett	Estimating Non-Market Environmental Benefits of the Conversion of Cropland to Forest and Grassland Program: a choice modeling approach
John Ward, Brett Bryan, Glenn Gale, and Trevor Hobbs	Market-Based Instrument approaches to implementing priority revegetation in the South Australian Murray-Darling Basin
John Ward, John Tisdell, and Stuart Whitten	Experimentally Testing Institutions And Policy Instruments to Coordinate Groundwater Recharge in the Coleambally Irrigation Area
Peter Warr	Productivity Growth in Thailand and Indonesia: How Agriculture Contributes to Economic Growth
Peter Warr	Roads and Poverty in Rural Laos
Annette Weier	Legal Definitions of Taxation Terms – Implications for the Design of Environmental Taxes and Charges
Glyn Wittwer	Modelling future urban and rural water requirements in a CGE framework
Jayden Woolley, Mark Caputo, and Melissa Bright	Bridging the Gap Between Economic Theory and Fisheries Management - A Case Study of the South Australian Snapper Fishery
Mitoshi Yamaguchi and M.S. Srigowri Sanker	Adjustment of Exchange Rate and its Impact on Sri Lanka's Agriculture under Policy Reforms
Shion Yee and John Rolfe	Evaluating the Efficiency of a Devolved Grants Program: A Central Queensland case study
Amalia Yiannaka and Murray Fulton	Getting away with robbery? Patenting behavior with the threat of infringement
Young and Louise Adcock	The benefits to growers from investing in the rice industry's Environmental Champions Program
Zhang-Yue Zhou and Wei-Ming Tian	China's Grain Production: the Evolving Trends after WTO Accession
Tatevik Zohrabyan and David A. Bessler	On Price Dynamics in International Wheat Markets
Andrew Zull, Roger Lawes, and Oscar Cacho	Management of perennial weeds in the North Queensland rangelands