

CONTRIBUTED PAPER PROGRAM



**AARES
2022**

THE 66TH ANNUAL CONFERENCE
OF THE AUSTRALASIAN
AGRICULTURAL & RESOURCE
ECONOMICS SOCIETY

7–11 February/Online

| Contributed Paper Session A | | Tuesday 8 February 14:30-16:00 | |
|------------------------------------|---|---|---|
| | A1: CLIMATE CHANGE | A2: DECISION ANALYSIS / IMPACT EVALUATION | A3: RESILIENCE / VULNERABILITY |
| Time | Chair: Oscar Cacho | Chair: David Hadley | Chair: Derek Baker |
| 14:30-14:50 | Alec Zuo Drought and hotter temperature impacts on suicide: Evidence from the Murray-Darling Basin, Australia {26} | Feng YE Study on Impact of Corn Collection and Storage System Reform on Farmers' Productivity -Evidence from National Fixed Point Survey {128} | Mara Hammerle Vulnerable households and effects of energy efficiency: An Australian study {15} |
| 14:52-15:12 | Stephanie F. McWhinnie The effectiveness of the UN-REDD Programme as a guardian of tropical forests in developing countries {42} | Mohammad Mahbubur Rahman Impact of Agricultural Extension service on Farmer's Welfare: Evidence from Bangladesh {41} | Quentin Grafton Resilience to Anthropogenic Drought in the Northern Murray-Darling Basin, Australia {45} |
| 15:14-15:34 | German Puga The Impact of Climate Change on Grape Yields in Australia {109} | Pratikshya Kandel Estimating the Socio-economic Impacts of Protected Area Policy on Household Welfare: Evidence from Chitwan National Park, Nepal {66} | Maryam Abdolrahimi Effect of Natural Disasters on Income Distribution {87} |
| 15:36-15:56 | Thomas Nordblom Adaptations to climate change in Australia {111} | Marcela Del Carmen Vieira Measuring the economic impacts of exotic dung beetles on livestock productivity in Western Australia. {50} | Rayen Gho-Inzunza Economic assessment of planning restrictions to decrease flood risk in Queensland, Australia {163} |

| Contributed Paper Session B | | Tuesday 8 February 16:30-18:00 | |
|------------------------------------|---|--|--|
| | B1: BEHAVIOUR / EXPERIMENTS | B2: ENERGY SECTOR / EMISSIONS | B3: TECHNICAL EFFICIENCY PRODUCTIVITY |
| Time | Chair: Susie Hester | Chair: Oscar Cacho | Chair: Rene Villano |
| 16:30-16:50 | S M Rahaman Behavioural insights on farmers reservations in adopting Conservation Agriculture-based Sustainable Intensification technologies in Bihar, India {146} | Julia Manchester How are renewable generation and coal generator revenues related?: Empirical evidence from the NEM {97} | Wanglin Ma Off-farm work and technical efficiency of wheat production in China {57} |
| 16:52-17:12 | Krishna P. Timsina Can behavioural factors better explain the adoption of zero tillage technology in wheat farming?: Evidence from Nepal {147} | Jorrit Gosens A highly granular model of China's coal production and consumption system shows how China's decarbonization and energy security plans will affect coal imports {48} | Steele Christian West Productive performance in a dynamic setting: The application of DEA windows analysis to the estimation of total factor productivity efficiency amongst farm businesses {21} |
| 17:14-17:34 | Adnan M S Fakir Healthy, nudged, and wise: Experimental evidence on the role of cost reminders in healthy decision-making {16} | Xueting Jiang Asymmetric Response of Carbon Emissions to Recessions and Expansions and Oil Market Shocks {67} | Sofina Maharjan Technology choice, output mix and farm performance in the Indo Gangetic Plains of India: A directional distance function analysis {141} |
| 17:36-17:56 | Shu-Wing Chan How to improve context saliency in economic experiments using immersive features of virtual reality tools? {123} | John Gibson The impact of gas flaring on child health in Nigeria {83} | Le Van Cuong Rice production and productive efficiency in the upland areas of Vietnam {145} |

| Contributed Paper Session C | | Tuesday 8 February 18:30-20:00 | |
|------------------------------------|--|---|---|
| | C1: AGRICULTURE | C2: CLIMATE CHANGE | C3: GENDER: Resourcing gender equity |
| Time | Chair: Terence Farrell | Chair: Oscar Cacho | Chair: Alison Sheridan |
| 18:30-18:50 | Bill Malcolm Nitrogen for better and worse {60} | Thi Tam Ninh Nguyen Estimating climate effects on Robusta coffee production in the Central Highlands of Vietnam: a panel household data analysis {151} | David Lefor Rethinking 'gender in agriculture and climate change' in the context of funding ecosystems {129} |
| 18:52-19:12 | Bimal Sharma Patterns of Agriculture Labour Productivity in Agro-Ecological Zones of the Brahmaputra Valley, India {62} | Laurent Cishahayo Does social capital improve farmers' climate change adaptations? Evidence from banana production in China {24} | Maria Cresilda M. Caning Linking innovation capability to the business performance of rural-based women entrepreneurs {158} |
| 19:14-19:34 | Hiroki Kiriya Nitrogen Stock, Pesticide Use and Farmer's Behavior under Rice Policy Change: Estimation of Translog Cost Function for Japanese Rice Production {155} | Shimels Wassie, Andreas Wilkes Livestock Data Collection for GHG Inventory: upgrading to Tier 2 in Ethiopia {93} | Constantin Johnen Digital Credit and Financial Inclusion of Women: Empirical Evidence from Kenya {35} |
| 19:36-19:56 | Yan Jin Assessing the Importance of Localised Agronomic and Environmental Characteristics for Farm Level Yield and Intensity on Pastoral Based Livestock Systems {49} | | Annkathrin Possner Female Smallholder Farmer's Preferences for Digital and Conventional Credit Attributes: Evidence from Madagascar {17} |

| Contributed Paper Session D | | Wednesday 9 February 08:00-09:30 | | |
|------------------------------------|---|---|---|--|
| | D1: AGRICULTURE | D2: WATER | D3: REGIONAL DEVELOPMENT | |
| Time | Chair: Rod McInnes | Chair: Lin Crase | Chair: Derek Baker | |
| 08:00-08:20 | Tom Ndebele Balancing Support versus Severity for Household-Level Environmental Restrictions: An Illustration for Residential Fertilizer Use {156} | Md Sayed Iftekhar Non-market value of protecting groundwater in the Great Artesian Basin {76} | Michael Coleman Growing the NSW Agricultural Economy: constraints and opportunities as perceived by farmers {55} | |
| 08:22-08:42 | Hamish Gow Insights into the influence of indigenous values in NZ's dairy industry {107} | Maruge Zhao Market microstructure of Australian water market: lessons from the last decade {101} | Edward Lefley Research for the region, by the region: an analysis of author affiliations for the Namoi Unlimited Region in the field of agriculture. {132} | |
| 08:44-09:04 | Robbie Maris An Analysis of Operating Profit Margin: A Valuable Tool for New Zealand Dairy Farmers {110} | Anik Bhaduri Exploring the relationship between welfare and groundwater dependence: An Application of dynamic agricultural-household model with intergenerational features {106} | Tarek Soliman The value of lost agricultural production from erosion: A spatial explicit analysis from New Zealand {32} | |
| 09:06-09:26 | Chinthani Rathnayake Implications from the Ban on Glyphosate for the Farm Sector of the Sri Lankan Tea Industry {47} | Mohammad Hossen How to mitigate transboundary water sharing disputes {72} | Franklin Soriano Plans for Assessing Australian Business Vulnerability to Natural Disasters using BLADE {138} | |

| Contributed Paper Session E | | Wednesday 9 February 14:30-16:00 | |
|------------------------------------|---|---|--|
| | E1: DATA | E2: NON-MARKET VALUATION | E3: GENDER: Gender in a South Asian context |
| Time | Chair: Rohan Nelson | Chair: Maksym Polyakov | Chair: Alison Sheridan |
| 14:30-14:50 | Pike Stahlmann-Brown Honey bee losses and underlying causes in New Zealand, 2015-2021 {39} | Alaya Spencer-Cotton Estimating the value of self-drive recreation to the remote Kimberley: sensitivity to multi-destination trips and the value of travel time {84} | Sophie Lountain Technology, gender, and sustainable livelihoods: Insights into preferences for irrigation pumps in West Bengal {27} |
| 14:52-15:12 | Matthew Wysel Anonymous tolls and the value of insight. {142} | Abbie Rogers The value of non-market valuation {108} | Nishith Zahan Tanny Development interventions and rural gender-based food security: Linking processes and expected outcomes in Bangladesh {20} |
| 15:14-15:34 | T.R. Hutchings How accurate is the ABARES data? An audit of the Agsurf database {18} | Curtis Rollins Accounting for non-attendance and preference heterogeneity underlying the price parameter in choice models {122} | Sadia Abbas Top manager's gender and firm level innovation in South Asia: the moderating role of institutional quality and financial constraints {22} |
| 15:36-15:56 | Rohan Nelson Recognising and building on the systems' attributes of the Australian Agricultural Forecasting System {161} | Michael Burton Deriving monetary values from Case 1 Best Worst Scaling - using multiple anchors {130} | Sujana Adapa Reimagining Women's Role in Agriculture - Evidence from India {131} |

Contributed Paper Session F **Thursday 10 February 16:30-18:00**

| | F1: GENDER: Valuing women's contributions on farms | F2: VALUE CHAINS / AGRI-FOOD | F3: DECISION ANALYSIS / IMPACT EVALUATION |
|-------------|--|---|---|
| Time | Chair: Alison Sheridan | Chair: Derek Baker | Chair: Franklin Soriano |
| 16:30-16:50 | Rene Villano Women's Empowerment in Integrated Cattle-Farming Systems in Indonesia {92} | Don Gunasekera Assuring quality food procurement for the aged care sector {33} | Wanglin Ma Effects of information and communication technology on objective and subjective well-being inequality in China {56} |
| 16:52-17:12 | Wole Kinati Gender Attitudes toward Empowerment Resources and Agency: A case of livestock keepers in mixed and livestock-based systems in rural Ethiopia {95} | Daniel Hill Can value chain interventions be used to support broadscale land use change for environmental and social outcomes? A case study in Bandung, Indonesia {59} | Wen Wang Economic Impacts of National Forest Conservation Program in China {149} |
| 17:14-17:34 | Isaac Koomson Women's empowerment and life satisfaction: Evidence from integrated livestock farming system in Indonesia {98} | Tian Jihadhan Wankar Potential target markets for selling differentiated Nusa Tenggara Barat (NTB) beef in Indonesia {74} | Clarisse M. Gonzalvo Impacts of biotech corn adoption among farmers in Pampanga, Philippines: Analyzing farmer decision-making in connection with their self-concept and social identity {116} |
| 17:36-17:56 | Shahzad Kouser Women's Contributions to Pulses Value Chain and Household Food and Nutrition Security in Pakistan {154} | Wei Yang The Role of Credence Attribute Claims in Food Product Launch - A Comparative Study of New Zealand and Australia {38} | Simon Hone Discount rates and the treatment of risk in the economic analysis of agricultural projects {160} |

Contributed Paper Session G **Thursday 10 February 18:30-20:00**

| | G1: GRAINS: GRDC sponsored | G2: ECOSYSTEM SERVICES | G3: RECYCLING / POLLUTION | G4: AGRI-FOOD / FOOD SECURITY |
|-------------|---|---|--|--|
| Time | Chair: Mikayla Bruce | Chair: David Hadley | Chair: Oscar Cacho | Chair: Derek Baker |
| 18:30-18:50 | Nicola Thomas Alternative Fertiliser Management Methods to Increase Crop Productivity and Farmer Utility {14} | Md Sayed Iftekhar How does outcome uncertainty affect the regulator's incentive strategy when paying landholders for conservation works? {133} | Ying Xu Identifying impacts of factors on waste generation and recycling {61} | Hue T Vuong Vietnamese consumer's demand for improved food safety {103} |
| 18:52-19:12 | Masood Azeem Tell us something we don't know: the potential for herbicide resistance testing to inform weed management decisions {40} | Cristiano Franceschinis Attitudes and Preferences Towards Soil-Based Ecosystem Services: How Do They Vary Across Space? {70} | Christine Parfitt Reducing consumption of single-use plastics by hospitality businesses and customers {135} | Alana Hollestelle, Robert Pattinson Implications of the net zero transition for the Australian agri-food industry {90} |
| 19:14-19:34 | Richard J. Culas Risk management in Australian wheat export: A descriptive analysis of market outlook and options for price risk management {43} | Chi Nguyen Social Desirability Bias in People's Willingness to Participate in Payments for Forest Ecosystem Services (PFES) Schemes in Vietnam: An Inferred Valuation Approach {137} | Amit Batabyal Tanneries in Kanpur and Pollution in the Ganges: A Theoretical Analysis {25} | Peggy Schrobback Agri-food export barriers: An Australian perspective {31} |
| 19:36-19:56 | Fabian Frick Innovation Behaviour and Sustainability Performance - Empirical Evidence on the Farming Sector {85} | Florence Briton Aiming for eco-viability in multispecies fisheries under catch regulation {164} | | Glory Dee A. Romo Policy responses and food security impacts of the COVID-19 pandemic in the Philippines' agri-food supply chain {94} |

| Contributed Paper Session H | | Friday 11 February 09:30-11:00 | |
|------------------------------------|---|---|---|
| | H1: CLIMATE RISKS | H2: CONSUMER PREFERENCES / WTP | H3: TRADE / MARKETS |
| Time | Chair: Oscar Cacho | Chair: Masood Azeem | Chair: Wanglin Ma |
| 09:30-09:50 | Sarah C. Smith Weather-induced losses in field-level quality, yield, and revenue {36} | Sara Thaichon Exploring the impact of the COVID-19 pandemic on the purchase and consumption of fruits and vegetables: A social media analytics approach {63} | Kym Anderson The Relative Importance of Global Agricultural Subsidies and Tariffs, Revisited {124} |
| 09:52-10:12 | Neal Hughes Defining drought from the perspective of Australian farmers {162} | Azad Rahman Consumer preferences in China for imported fresh produce and its attributes: Application of a discrete choice experiment {139} | James Fell Non-tariff measures: An applied methodology for the quantification of bilateral trade effects of policy measures at a commodity level {153} |
| 10:14-10:34 | Thi Mui Nguyen Importance of drought perception in New Zealand {75} | Angie Higuchi Quality uncertainty and willingness to pay for organic quinoa - Evidence of organic-labelled quinoa in Peru {51} | Adam Voak Closed Borders: The invisible nexus between Passenger Flights and Air-Freight and its Implications for Australian farm exports {96} |
| 10:36-10:56 | Paul Deane Risk and Uncertainty - the challenges and implications of incorporating future climate risk into agricultural decision-making {140} | Alba J. Collart Consumer Preferences for Blockchain-based Traceability of Leafy Greens {52} | |

| Contributed Paper Session I | | Friday 11 February 14:30-16:00 | |
|------------------------------------|--|---|---|
| | I1: TECHNICAL EFFICIENCY PRODUCTIVITY | I2: GENDER: Changing gender roles in Australian agriculture | I3: NON-MARKET VALUATION |
| Time | Chair: Chris O'Donnell | Chair: Alison Sheridan | Chair: Steve Schilizzi |
| 14:30-14:50 | Abebayehu Girma Geffersa On the estimation of the impact of improved maize adoption on technical efficiency: evidence from smallholder maize farmers in Ethiopia {69} | Margaret Alston Have women broken through the Grass Ceiling? An analysis of the contemporary role of farm women - {29} | Mark Tocock The Valuation of Threatened Raptors in Tasmania {114} |
| 14:52-15:12 | Jack Pezzey Calibrating world spending and wealth: estimating the roles of human and knowledge capitals, natural resources and total factor productivity growth {89} | Alison Sheridan Gender and intergenerational farm succession in Australia: An exploratory study {37} | Jeremy De Valck Investigating the environmental and amenity values of the Great Barrier Reef using discrete choice experiments {152} |
| 15:14-15:34 | Omphile Temoso Estimates of productivity growth for South African table grapes producing regions (2010 - 2020): A Fare-Primont index approach {104} | Lucie Newsome Motivations to enter and remain in sustainable, small scale agriculture: New female farmers in the Australian context {99} | Maksym Polyakov The value of restoring and protecting native vegetation in New Zealand {105} |
| 15:36-15:56 | Chris O'Donnell Greenhouse Gas Emissions and Productivity Change in Selected Sectors of the Australian Economy {53} | Sally Bristow Rural mothers' experiences of caring for a child with a chronic health condition: Implications for public policy {159} | Claire Doll The importance of greenness in greenspaces: Landscape preferences in urban parks {82} |

| Contributed Paper Session J | | Friday 11 February 16:30-18:00 | |
|------------------------------------|--|---|--|
| | J1: ENVIRONMENT / NAT RES | J2: WATER / NATURAL RESOURCES | J3: DEVELOPMENT / SMALLHOLDERS |
| Time | Chair: David Hadley | Chair: Jeff Connor | Chair: Derek Baker |
| 16:30-16:50 | Sandra Walpole Achieving better value for money when purchasing Natural Resource Management services {125} | Deepa Basnet Identifying opportunities and barriers for adaptive management of Phewa lake basin, Nepal using Ostrom's design principles {120} | Rizky Rahman Evidence against the Environmental Kuznets Curve (EKC) from a regional analysis for Indonesia {64} |
| 16:52-17:12 | Greg Smith Assessing and reporting on nature-related risks for Australian forestry {54} | Geetha Mohan An Input-output framework strengthens resilient economies and societies through improved water management plans in water-scarce coastal districts in India. {117} | Tshering Samdrup The Impact of Foreign Direct Investment on Food Security in Developing Countries- Evidence from Exploratory Meta-analysis {86} |
| 17:14-17:34 | Maria Luiza Almeida Luz Trade-Offs in Restoration Areas for Carbon Market and Koala Conservation {71} | Himaushu Hardikar The Impacts of Disputed Exclusive Economic Zones on Fisheries in the South China Sea {134} | Zenal Asikin Gains to smallholder production systems associated with differentiated business models within a smallholder population {91} |
| 17:36-17:56 | Asjad Tariq Sheikh Land managers' participation in the land restoration and conservation program to remediate the irrigated salt-affected farmland in Punjab, Pakistan {77} | | Dinesh Babu Thapa Magar Determinants of return migration and occupational choice of the return migrants in Nepal {144} |