



Agribusiness & Economics Research Unit  
Lincoln University, Canterbury

# Annual Report

## 2009

## AERU STAFF 2009

<b>Professor Caroline Saunders</b>	Director, Professor of Trade and Environmental Economics
<b>Dr Bill Kaye-Blake</b>	Deputy Director
<b>Professor Paul Dalziel</b>	Professor of Economics
<b>Dr John Fairweather</b>	Principal Research Sociologist
<b>Glen Greer</b>	Senior Research Officer
<b>Dr Jane Higgins</b>	Senior Research Officer
<b>Dr Lesley Hunt</b>	Research Officer
<b>Dr Simon Lambert</b>	Research Officer
<b>Meike Guenther</b>	Research Associate
<b>Rachel Campbell</b>	Research Associate
<b>Tiffany Rinne</b>	Research Associate
<b>Lars-Christian Sorensen</b>	Research Associate
<b>Komathi Kolandai</b>	Research Associate
<b>Tim Driver</b>	Research Assistant
<b>Paul Rutherford</b>	Research Assistant
<b>John Saunders</b>	Research Assistant
<b>Sini Hakola</b>	Research Assistant
<b>Tawhai Matunga</b>	Research Assistant
<b>Hayley Neil</b>	Research Assistant
<b>Eric Kanyoke</b>	Research Assistant
<b>Oliver Black</b>	Research Assistant
<b>McLeish Martin</b>	Research Assistant
<b>Mark Ward</b>	
<b>Emeritus Professor Tony Zwart</b>	
<b>Teresa Cunningham</b>	PA/Administrator
<b>Chris Lyne</b>	Accountant

It has been a big year in the AERU. Firstly, we were made an independent research centre within Lincoln University (as was the Bioprotection centre of research excellence). Also, we took over the whole of The Lodge and now have a stylish reception area.

There have been changes on the personnel front. Bill became Associate Professor William Kaye-Blake and my Deputy. Paul Dalziel joined us full-time. Meike Guenther is back with us and we have also been joined by Rachel Campbell. We said goodbye to Lars Sorenson, who has gone to the Danish Consulate in Canberra. We also have been helped this year by Ollie Black, Tawhai Matunga, Eric Kanyoke, Hayley Neil and Sini Hakola from Finland has just joined us. Also, a huge thanks to the regulars: John Fairweather, Glen Greer, Lesley Hunt, Simon Lambert, Tiffany Rinne, Jane Higgins and Teresa Cunningham.

We have had 34 projects this year. Our involvement in FRST projects is continuing to produce interesting results: that is the ARGOS programme; the Education Employment Linkages programme; the Technology Users' Innovation programme; and the AgResearch Rural Futures programme. Paul and Caroline along with local EDA officers updated the Canterbury Regional Economic Development Strategy. Alongside CDC, we have developed an economic model to aid the selection of sectors for regional growth and an accompanying economic impact assessment model.

Bill and Caroline with the help of others have expanded the trade model to include forestry. Andrew Barber and Caroline have been involved in a number of carbon projects including development of business carbon calculator and carbon foot printing of shipping. Bill continues his work in discrete choice analysis and alongside Caroline and Tony Zwart is developing a survey to go overseas next year. Paul and Caroline had two separate projects for the OECD: Caroline's on carbon labelling; and Paul's on skills training in small to medium-sized enterprises.

The AERU continue to publish with 88 publications across a wide area. Other happenings were Paul being elected President of ANZRSIAI, Bill being re-elected onto the NZAE Council, Caroline being elected Vice President of Business Development for the Royal Society and Caroline being made an Officer of the New Zealand Order of Merit.

This year is an interesting one. Bill is running the NZAE annual conference being held in Auckland and Caroline is running the European Union conference being held at Lincoln. We are also offering postgraduate scholarships for people wanting to do thesis research in the AERU.

# Publications 2009

## Agribusiness & Economics Research Unit

### Journal Articles - Non-Refereed

Fairweather J R, Hunt L M, Bengé J. Understanding Kiwifruit Orchard Systems. *NZ Kiwifruit Journal* March/April:13-16. 2009.

### Journal Articles - Refereed

Fairweather J R, Rosin C, Hunt L M, Campbell H R. Are Conventional Farmers Conventional? Analysis of the Environmental Orientations of Conventional New Zealand Farmers. *Rural Sociology* 74: (3) : September:430-454. 2009.

Fairweather J R, Hunt L M. Can farmers map their farm system? Causal mapping and the sustainability of sheep/beef farms in New Zealand. *Agriculture and Human Values* 1-12. 2009.

Fairweather J R, Klonsky K. Response to Vanclay et al. on Farming Styles: Q Methodology for Identifying Types and its Relevance to Extension. *Sociologia Ruralis* 49: (2) : April:189-198. 2009.

Fairweather J R, Mulet-Marquis S. Changes in the age of New Zealand farmers: problems for the future?. *New Zealand Geographer* 65: 118-125. 2009.

Greer G, Kaye-Blake B H. Comparative performance of organic, conventional and integrated producer in New Zealand. *Aspects of Applied Biology - Integrated Agricultural Systems: Methodologies, Modelling and Measuring* 93: 241-244. 2009.

Kaye-Blake W H. Results from the NZAE 2008 Web Survey. *Routledge* 43: (3) : December:315-326. 2009.

Kaye-Blake W H, Abell W L, Zellman E. Respondents' ignoring of attribute information in a choice modelling survey. *The Australian Journal of Agricultural and Resource Economics* 53: (4) :547-564. 2009.

Saunders C M, Kaye-Blake W H, Marshall L, Greenhalgh S, Aragao Pereira M d. Impacts of a United States' biofuel policy on New Zealand's agricultural sector. *Energy Policy* 37: (9) : September:3448-3454. 2009.

Saunders C M, Kaye-Blake W H, Campbell R. The Impact of the Reintroduction of EU and US Export Subsidies on NZ and Australian Trade. *Farm Policy Journal* 6: (3) : August Quarter:23-29. 2009.

Saunders C M, Kolandai K, Greer G, Kaye-Blake B H, Sorensen L. An application of agri-environmental indicators to panels of New Zealand farms. *Aspects of Applied Biology - Integrated Agricultural Systems: Methodologies, Modelling and Measuring* 93: 139-142. 2009.

Wreford A B, Cagatay S, Saunders C M. Climate change and agriculture: Integrating agricultural greenhouse gas emissions into an agricultural trade model to assess the economic and environmental implications of extreme weather events and bio-energy policy. *Aspects of Applied Biology - Integrated Agricultural Systems: Methodologies, Modelling and Measuring* 93: 41-46. 2009.

### Report for External Body

Fairweather J R, Hunt L M, Bengé J, Campbell H R, Greer G, Lucock D L, Manhire J, Meadows S, Moller H, Rosin C (+ 1 other). New Zealand Farmer and Ordardist Attitude and Opinion Survey 2008: Characteristics of organic, modified conventional (integrated) and organic management, and of the sheep/beef, horticulture and diary sectors. Agriculture Research Group on Sustainability (ARGOS); Christchurch: 2009.

Fairweather J R, Hunt L M, Rosin C, Bengé J, Campbell H R. Kiwifruitcasual mapping in 2008: Comparisons to 2005 and to other sectors. Agriculture Research Group on Sustainability; Christchurch: 2009.

Fairweather J R, Hunt L M, Rosin C, Moller H, Norton S. New Zealand Farm Attitude and Opinion Survey 2008: Management systems and farming sustainability. Agriculture Research Group on Sustainability (ARGOS); Christchurch: 2009.

Kaye-Blake W H, Black O, Dalziel P C, Kissling C C, Sleeman R, Wilson M M J. Economic Impacts of an Improved Joint Border Management System. Agribusiness and Economics Research Unit; Christchurch: 2009.

Saunders C M, Kaye-Blake B H, Sorensen L, Flager B. New Zealand Medical Technologies: A Sector Overview. 2009.

### Report for Internal Use

Kaye-Blake W H, Greenhalgh S, Turner J, Holbek E, Sinclair R, Matunga T, Saunders C M. A Review of Research on Economic Impacts of Climate Change. 314. Lincoln University: AERU. 1-35. 2009.

### **Book Chapter**

Dalziel P C, Maclean G A C, Saunders C M. Economic Policy and Cultural Well-being: The New Zealand Experience. In: Michio Yamaoka, Naoka Sajima, Yuichi Marumo editor(s). *The Roles of New Zealand and Japan in the Asia-Pacific: From Standpoints of security, Economy and Cultural Exchange*. Tokyo, Japan: Ronasha Publishing House; p. 139-170. 2009.

Dalziel P C, Saunders C M, Kaye-Blake B H. The Role of Universities in Theories of Regional Development. In: James E. Rowe editor(s). *Theories of Local Economic Development; Linking Theory to Practice*. Surrey, England: Ashgate; p. 193-212. 2009.

Hunt L M. Moving to the country for a graduated retirement: constructing new meaningful lives. In: Francesca Merlan, David Rafferty editor(s). *Tracking Rural Change: community, policy and technology in Australia, New Zealand and Europe*. University Printing Services, The Australian National University, Canberra ACT 0200, Australia: ANU E Press; p. 111-113. 2009.

### **Conference Proceeding - Full Conference Paper - Non-Refereed**

Kaye-Blake W H, Li F, McLeish M, McDermott A, Neil H, Rains S T. A review of Multi-Agent Simulation Models in Agriculture. *NZ Agricultural and Resource Economics Society: 27/08/2009 - 28/08/2009*; Nelson, New Zealand. 1-18. 2009.

### **Conference Proceeding - Abstracts - Non-Refereed**

Lambert S J. An overview of Maori farming through Te Ahuwhenua: A new take on social capital. *Agri-Food XVI*; 25/11/2009 - 27/11/2009; University of Auckland, NZ. 11-11. 2009.

### **Conference Proceeding - Full Conference Paper - Refereed**

Saunders C M, Barber A, Sorensen L. Food Miles, Carbon Footprinting and their potential Impact on Trade. *AARES 53rd Annual Conference: 10/02/2009 - 13/02/2009*; Cairns, North Queensland. 2-32. 2009.

### **Conference Proceeding - Abstracts - Refereed**

Hunt L M, Fairweather J R, Greer G, Rosin C, Campbell H R, Moller H, Norton S, Lucock D L, Bengé J, Manhire J. Linking farmer and orchardist orientations and actions. *Agri-food XVI*; 25/11/2009 -27/11/2009; University of Auckland, NZ. 9-10. 2009.

Hunt L M, Rosin C, Fairweather J R, Campbell H R. Doing the unthinkable: Is breadth of view very important in bringing innovation to organic practices?. *Organics Aotearoa New Zealand: 2009 Organic Sector Conference "Innovate: Go Organic"*; 13/11/2009 -15/11/2009; University of Waikato, NZ. 17-17. 2009.

Manhire J, Saunders C M, Campbell H R, Fairweather J R, Moller H. Go Organics! Using the challenge of other management systems to innovate and grow the organic market and industry. *Organics Aotearoa New Zealand: 2009 Organic Sector Conference "Innovate: Go Organics!"*; 13/11/2009 -15/11/2009; University of Waikato, NZ. 43-43. 2009.

### **Conference Presentation - Unpublished**

Kaye-Blake B H. Economics, Lacan and Food. *Centre for Lacanian Analysis 2nd Annual Conference*; 12/02/2009 - 15/02/09; The University of Auckland. 2009.

Saunders C M. Carbon Footprint for the Dairy Industry. *Joint Conference of NSW Farmers' Association Dairy Section and Dairy NSW*; 03/06/2009 - 04/06/2009; Sydney, Australia. 2009.

Saunders C M. Feeding the world: the role of New Zealand's food exports. *44th Otago Foreign Policy School*; 28/06/2009 - 26/06/2009; University of Otago, Dunedin. 2009.

### **Unpublished Conference Poster**

Dalziel P C. Schumpeter's Vision and the Teaching of Principles of Economics. *Teaching Ideas and Projects*; 03/01/2009 - 05/01/2009; San Francisco, USA. 2009.

### **Extension Presentations**

Kaye-Blake B H. NZ Medtech: An Overview. 14/04/2009, Latimer Lodge, 30 Latimer Square, Christchurch. 2009.

## AERU Projects 2009

Description	Source of Funding
<b>Consulting Contracts:</b>	
Resident course	AUT
To update the emissions factors for the Carbon Calculator	Qualmark
Carbon Calculator	Min. Economic Development
Advising centres of expertise	Canterbury Development Corp
Economic Model	Canterbury Development Corp
Carbon accounting and labelling	OECD
Skills in SMEs	OECD
Benefits of Irrigation	Hurunui District Council
NZ Kiwifruit Benefits	NZ Trade & Enterprise
Manukau Land Use	Manukau City Council
ISO Standards	MAF
Food miles	American Universities Ltd
Joint Border Management System Economic Advice	New Zealand Custom Services
Rural Futures	Agribusiness Group
Financial comparison of integrated versus conventional pest management on arable farms	Plant & Food
Carbon footprinting of shipping	360° Quality Ltd
Uptake of ICT on West Coast	Venture West Coast
Pounamu	Ngai Tahu
Trade Modelling Research	Harris Consulting
<b>Research Contracts:</b>	
Carbon footprinting	MAF
Carbon footprinting	ZESPRI
Data Analysis	Agribusiness Group
Tag Data Analysis	Agribusiness Group
ARGO—Pathways to Sustainability	FRST
Education Employment Linkages (EEL)	FRST
Networks and Innovation Governance	FRST
Statistic for Sustainable Development: an indicators framework for New Zealand	Statistics NZ
BRANZ	BRANZ
GIN8903 Good Industry—Good Investment	MAF
Review and update of CED Strategy	Canterbury Development Corp
Skills of workforce	Min. Economic Development
Climate Change and Trade	MAF
The Economic Cost of Bovine Tuberculosis in the Hawkes Bay region	Hawkes Bay Regional Council



