Nuffield
2018 Scholars
Introduction
Alison Larard, 2018 Nuffield Scholar supported by Westpac Agribusiness

• Home farm at Evelyn in Far North Qld, Australia
• Limousin cattle seedstock operation
• Undergoing succession
• Ag economist working as a business consultant
• Servicing govt projects & private beef businesses
• 2 sons, Ian & Andrew
Study Topic: Better Business Management & Succession Planning in North Queensland Beef Businesses

Is “succession at all costs” the smartest option for families or the industry?

Is a Whole of Business (WoB) approach to strategic planning and management the answer?

I can’t decide if I should give’em away now, or feed’em out and then give’em away.
Nuffield study:
Technical and economic feasibility of a mobile dairy processing plant

- Investment
- Lack of market studies
- Training in dairy processing
- Sizing of the equipment
- Time to reach a mature market
- Food safety issues
- Viability of project
- Focus on some dairy products
Kees Hemminga
Dairy Farming
The Netherlands
Nuffield research topic

• Hoe do global trends and developments influence my dairy farm and the dairy industry?

• How do I deal with these kind of changes?
Can Institutional Investment Capital Provide Opportunities for Family Farmers and Young Farmers in the UK?
Can Institutional Investment Capital Provide Opportunities for Family Farmers and Young Farmers in the UK?
Signals for success in dairy farming

Understanding how animal and people behaviour impacts on performance!
Nuffield Canada

- Originally from Prince Edward Island
- Currently live in Nova Scotia
Nuffield Topic

- Attributes of beef production that consumers are willing to pay for
- Production that may be implemented on farm in Canada
- Links in the value chain
- Europe, Hong Kong, Japan, USA
Nuffield Topics
1) How the diversification and integration of production systems act increasing the farm profitability;
2) How the unions can create and deliver value to the farmers.
Andre Henry - 2018 Nuffield Scholar Australia

Family farm and food retail business - 300ha at Appin South, Victoria

Tomatoes -> pasta sauce, passata and vegan jerky
Wheat -> pasta
Barley, canola, shaftal clover
Study Topic-

Engineering and Energy uses for crop residues
Rapid Diagnostics: What Can We Learn From The Medical Industry??

Charlotte Evans

Point of care diagnostics:
What can we learn from the medical industry?
Rapid Diagnostics: What Can We Learn From The Medical Industry?

Point of care diagnostics: What can we learn from the medical industry?
Andrew Slade

2018 Australian Nuffield Scholar

• 5500ha South Coast WA
• 8500 composite ewes
• 800 Sussex/Angus Cows
• 2500ha Barley, Wheat and Canola
Precision Livestock Management

**Issues**
- Finite natural resource
- Declining skilled workforce
- Farmers exiting livestock production
- Social licence to farm livestock??

**Potential Solutions**
- IoT’s farming
- Virtual Fencing
- Real time remote pasture monitoring

And whatever else the Nuffield Journey sends my way
Tom Ormesher

Water Markets and Farm Productivity
Tom Ormesher

Water Markets and Farm Productivity
Mixed farm, family business, 12,000 hectare in Jibberding:
Grains: Canola, Lupins, Barley, Wheat, Oats & Hay
Live Stock: 2000 head of Merino and SAM cross’s

Nuffield study in 2018:
Readying Growers to Ride the Robots Back:
A study into preparation for the Robotic Revolution
Emily Norton

Breaking the silos - best practice in global agricultural policy for farm business innovation
Emily Norton

Breaking the silos - best practice in global agricultural policy for farm business innovation
Simon Cook
2018 Nuffield New Zealand scholar
Kiwifruit Orchardist with a mix of Green and Gold varieties.
Own and manage orchard contracting business specialising in kiwifruit and avocado spraying

Nuffield study in 2018:
Biosecurity. Maximising our protection from pre-border to farmgate
Colin Burnett
2018 Australian Nuffield Scholar
Beef Producer North West Queensland
Beef Production - 9000 Head of Brahman Cross Cattle – 85 000 Hectares – Family Owned and Operated - 4th Generation – Julia Creek, QLD

Study Topic: Business Sustainability in North West QLD – Environmental, Social, Economic.
Dudley Mitchell

2018 Nuffield Scholar
Nuffield Topic 2018: Trends in canopy management in high density avocado orchards

- 50ha established avocado orchard + 50ha new orchard
- Clonal propagation nursery
- Packing
- Marketing
Julien Hérault
Farm machinery adviser & Arable farmer

Conseils Agroéquipements

My business:
- Improving equipment efficiency
- Managing machinery cost
- Teaching farm machinery
- Carrying out tests and diagnostics

Arable farm, 55 hectares:
OSR– Wheat– Barley– Corn– Faba bean–
Minimum tillage & Cover crops

Nuffield study:
Reducing the costs of mecanisation: how to reach an optimum level of investment in agricultural equipment?

www.conseils-agroequipements.com
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Nuffield study:
Reducing the costs of mecanisation: how to reach an optimum level of investment in agricultural equipment?
Barry O‘Boyle

Innovation & entrepreneurship - Relevance for business growth post Brexit?
Barry O‘Boyle

Innovation & entrepreneurship - Relevance for business growth post Brexit?
1 Karol Kissane
Ireland  2018 Nuffield scholar
1 Dairy farm, family business, 50 hectare in Kerry: New entrant – converted from Beef – Previous career in banking and Financial Services

Nuffield study in 2018: How to attract the next generation to a career in farming
6000ha cropping, family business, low rainfall region of Western Australia: Wheat, Barley, Canola, Lupins. Income completely dependent on rainfall which is becoming more erratic.

Nuffield study in 2018: Financial tools which can be used to protect business risk from climate variability
1.800 pigs
45 hectare arable land
Sugarbeets, Lucky Clover, Canna, Mais, Barley and Alfalfa

How to turn pig manure into a soil improver?
NUFFIELD STUDY IN 2018: WHAT ARE THE CONTRIBUTING FACTORS TO FLOOR EGGS?

- 10 shed set up (10,000-12,500 hens/shed)
- Automatic egg collection with Jansen nesting system and packing machine
- Only automatic farm to reach near 2% this current batch for floor eggs
- Other nesting systems in complex include PAX, JD and Vencomatic
- Produced just over 100,000 eggs a day in peak production with an average of 93% hatchability
Agriculture & the natural environment - building cross section relationships for the benefit of future policy

Kate Mayne

Agriculture & the natural environment - developing cross sector relationships to benefit future policy
Agriculture & the natural environment - building cross section relationships for the benefit of future policy

Kate Mayne

Agriculture & the natural environment - developing cross sector relationships to benefit future policy
GAVIN ROBERTSON
- Winemaker, Vineyard Manager and Instructor
- Owner and Cidermaker
THE NUFFIELD PLAN...
Grant Pontifex - Paskeville, South Australia

2018 Nuffield scholar supported by Nufarm Australia.

‘Improving soil health with organic amendments and cover cropping’
5th generation family farm

- Continuous crop, full residue retention system
- Jointly owned and managed with brother
- 6700ha in two different locations
- Diverse grain and cover crops
- Focus on soil health
- Chicken manure application
Explore New Ways In Which Eggs Can Be Marketed To Maintain A Steady Increase In Egg Consumption.
Explore New Ways In Which Eggs Can Be Marketed To Maintain A Steady Increase In Egg Consumption.
Klaus Laitenberger
Ireland

2018 Nuffield scholar
Organic Horticulturist, organic inspector, vegetable seed company, Passionate about growing edible crops

Nuffield study in 2018: Explore the potential of new and underutilised food crops
Oca, Yacon, Ulluco, Mashua
“The Lost Crops of the Incas”
James Hawkins

2018 Nuffield Australia Scholar
Mixed farm, family businesses, 4,500 hectare in Western Victoria:
Sheep (wool, meat) – Irrigated Lucerne seed/grazing - Cereal grain, Oil Seeds, Legumes – Contract
Manage Pigs, Compost production, Farm research

Nuffield study in 2018:
Overcoming soil constraints through soil amelioration
Many thanks to Nuffield Australia and Rural Bank my generous sponsor
Guillaume Milard

Farmer in no-till system with cover-crops, working in two family farms

Our productions
Wheat/Barley/Canola/Sugar Beet/Potatoes/Maiz/Soya/lentils/Peas

- Member of Farmers Organisation called MAGELLAN

Permanent cover-crops of alfalfa started into canola field

NUFFIELD 2018
Nuffield Project

Nutrients quality analyses and comparison between Conventional and agro-ecological system

- Do we produce healthier production in agro-ecological system?

- How can we use this enhanced quality on the domestic and international market?

- New communication & economic Partnerships
Angela Kirkwood

Growing the British Pig Industry
Angela Kirkwood

Growing the British Pig Industry
Futureproofing our Investments

Biosecurity

Andy Elliot
Transitioning our exports into Nutritional solutions and Ingredients
James Stacey – 2018 Nuffield Scholar
Australia
Mixed Farm 210 Ha Lucerne Hay and Seed, Cereal Crops, Beef Cattle, Contract Hay and Grain Harvesting.

Nuffield 2018 – Challenges and Opportunities for Agriculture in the Peri Urban Zone
Kununurra, Western Australia
Issues Relevant to Tropical Cotton Production

- Farm Manager for Kimberley Agricultural Investment
- Development and farming in the Kimberley region of WA. Have access to 25,000 Ha for irrigation development
- 2018 is the fourth crop, Chia, Quinoa, Maize, Chickpea, Mung bean, Sorghum and fodder grown previously. First cotton crop this year
- Research will focus on maximising cotton production to build an industry and complement our existing crops
- Irrigation methods, Staff, Resource, Environmental and Biosecurity Management, Rotation Crops. Overcoming the challenges of “wet season” cropping
- Supported by Cotton Australia and CRDC
Adam Banks

Insects as Food: Opportunities and challenges to farming insects for human consumption in the UK
Insects as Food: Opportunities and challenges to farming insects for human consumption in the UK
Marty Gransden
Cumulus Vineyards
Orange, New South Wales - Australia
2018 Nuffield Scholar

Wine Australia for Australian Wine
Nuffield
2018 Scholars

Break
Nuffield
2018 Scholars

Introduction part 2
“Explore the possibility’s for farmers to bring their innovative idea’s into practice”

Marten Dijkstra
Nuffield Scholar
2017
Organic dairyfarm “De Skans”

- Marten (36) & Linda (35)
- Tessel (10), Friso (8) & Steffen (5)
- For almost 200 years owned by the family Dijkstra
- 80 cows with 50 youngstock, 53 hectares
- Agricultural nature for meadowbirds
- Agricultural childcare for 12 kids a day
- Boardmember agricultural coop
506 Hectare Cool Climate Wine Grape Vineyard
12 Varieties – Premium to Ultra Premium Wine

Nuffield Study in 2018:
Alternative Wine Grapes for the Australian Wine Industry.
Varieties that better suit Australia’s climate, a changing climate
and a changing consumer palate.
Bisi Oladele  PhD UNSW
Technical Manager
• Automation in pack house
• Human capital requirement for increasing automated and expanding industry
• collaboration??
• Promoting career pathways in horticulture

Supported by
The William Buckland Foundation
Mauro Tadashi Nakata
2018 Nuffield Scholar
• Family Business in Fartura, State of São Paulo, Brazil;
• Tilápia farm, Processing plant and Distribution;
• Nuffield Study: competitiveness of Brazilian Aquaculture, focusing on costs, efficient production systems.
Where next for soft fruit in the UK? Addressing the yield gap and providing a path to 500 t/ha
Where next for soft fruit in the UK? Addressing the yield gap and providing a path to 500 t/ha
Joseph Lyng
Nuffield Scholar 2018

• Food and Agri-business Management Degree
• Food Business Strategy Masters
• Grass based dairy farmer along with family members
• Glanbia-Business Manager
“Value in the market for grass based dairy product”

1. Identify markets and companies achieving additional value.
2. Is there health benefits or is it perception? (scientific papers)
3. How is Ireland positioned to take advantage of our grass based system?
4. What will it mean for the producer, Processor and retailer?
Robin Tait
Production Agronomist
Pyrethrum
Botanical Resources Australia

- World leaders in pyrethrum production
- Owned and leased farms – 1400ha
- Potatoes, Poppies, Pyrethrum, Onions, Carrots, Wheat, Brassicas etc

Project
Investigate how Regeneration Agriculture Principles can be integrated into a high value cropping system to reduce synthetic inputs.
Investigate developing and existing technologies for carcass grading and payment that can improve UK meat quality through producer/processor incentivisation.
Investigate developing and existing technologies for carcass grading and payment that can improve UK meat quality through producer/processor incentivisation.
Dairyfarm Vof de Vor
- 115 dairy cows
- 31 hectare grass and 7,5 hectare corn
- Soil type: clay on peat
Study: soil subsidence, threat or opportunity?

The working of underwater drainage

Duckweed as protein substitute?
Sarah Bolton
2018 Nuffield Scholar
Sponsored by Dairy Australia and the Australian Dairy Conference
Co-manager 300 cow dairy farm north of Grafton, NSW with on farm bottling plant
Owner/operator 220 acre beef farm - growing out dairy beef calves
District Vet for NSW government - disease surveillance, animal health, welfare & production

Nuffield study topic in 2018: Dairy beef production - how Australia can turn a waste product into a valued commodity, thereby diversifying farm outputs and addressing animal welfare, industry social license, food waste and sustainability issues
Just Been Laid – Australia’s first online egg subscription business

100% mobile system

100% online
www.justbeenlaid.com.au

100% about the chook
Getting the eggs from the caravan to the cafe

Who am I?
- Chemical engineer
- 5th generation farmer
- Worked in food security for the World Bank and Syngenta
- Developed Rabobank’s continuous improvement program in Australia
- Super average dog trainer

Team Meeting

What’s my topic?
- Different business models to take a premium product, add value and then gain scale
Turi McFarlane
Senior Farm Environmental Consultant
2018 Nuffield Scholar
Senior Farm Environmental Consultant – Ravensdown Environmental
South Island Committee Member – Tahuri Whenua

Nuffield study in 2018:
Design and delivery of Environmental Sustainability tools in Agriculture
The prevalence and importance of indigenous bacterial cultures in raw milk cheese
The prevalence and importance of indigenous bacterial cultures in raw milk cheese
CANADIAN SCHOLAR: SHELLEY SPRUIT
PARTICIPATORY PLANT BREEDING PROGRAMS FOR CEREAL CROPS

VARIETY TRIALS FOR WHEAT AND BARLEY
Brian Dougherty
Recovering dairy farm addict - 2018 Nuffield Scholar

The home farm in Waukon, Iowa – Central United States
Nuffield study in 2018:
Manure management in Iowa cropping systems for improved soil health and water quality
Victor Monseff de Almeida Campos
Nuffield Brazil
- Ribersolo – Agricultural Analysis Laboratory
- Coffee and Cattle Producer
- Farm consultant focused on sustainable coffee production

Nuffield Study:
New technologies for soil and plant evaluation, including soil health
New approaches to pest management in agricultural landscapes; from hard sell to crisis management

Sarina Macfadyen  (Sarina.Macfadyen@csiro.au), Research Scientist
(Slower growing) broilers
Dairy cows
23 ha pasture
70% coverage electricity use
Sustainable heat from roof and milk
Loose housing system dairy cows
Natural ventilated poultry house
Bretton Estate
(Owner/Manager - Average Rainfall 450-500mm rainfall in Western Victoria)

- 2000ha owned land, 900ha leased land
- Mixed farm operation 6000 Merino Ewes for wool and lamb production
- Dryland Cropping (Wheat, Barley, Canola, Legumes)
- Hay Production
- Lamb finishing feedlot (Bretton Auto Feeder)

- **NUFFIELD study topic** – ‘Research ways technology can help modernise and improve profitability in the sheep and wool industry’.
Neil Eastham

How can UK dairy farmers use Genomics to breed a better herd?
Neil Eastham

How can UK dairy farmers use Genomics to breed a better herd?
Shannon Notter
Nuffield Australia
2018 Nuffield Scholar
350ha spring calving dairy farm. 500 crossbred cows. Family owned business. Located in South West Victoria, 2 hours west of Melbourne

Nuffield study in 2018:
Increasing Australian dairy farmers’ focus on profitability
Can UK agronomy learn from best practice abroad to better serve arable farmers with advice and crop protection inputs?
Can UK agronomy learn from best practice abroad to better serve arable farmers with advice and crop protection inputs?
Sonya Comiskey
Beef Producer from Queensland Australia
2018 Nuffield Scholar supported by Rabobank
“Old Mount Stuart”, 24,500 acre cattle property Central Highlands of Queensland
Commercial cross bred Bazadais cattle // Bazadais cattle stud // Part of extended family company
New business to launch May ’18 // Producer-led beef brand for “authentic French heritage beef”

My Nuffield study centres around PRODUCER LED BEEF BRANDS
Supply chain models (pre- and post-farm gate) + opportunity for co-operatives // Provenance, niche markets + premiums // Technology such as Blockchain for traceability // Engaging with provenance
Solis Norton, New Zealand
Nuffield topic: Optimising farm systems under energy constraints
Alexa Parker

Where Corporate meets Family in Business
Steve Grist 2018 Nuffield Scholar
Cairns Australia
First generation farmer growing Microgreens, microherbs and edible flowers

Study Topic- Bio-intensive and closed loop farming systems

Sponsored by
STEWART BORG

2018 NUFFIELD SCHOLAR

SPONSORED BY MEAT AND LIVESTOCK AUSTRALIA
MARKLANDS STATION

“Marklands” is a 6500 acre mixed grazing, farming and soon to be feedlot operation nestled on the North Queensland tropical coast, 45km south of Mackay and the beautiful Whitsundays. 2500 head of cattle and 1000 acres of mixed farming
Steven Archie Griffin
2018 Nuffield International Scholar
Only child - Family Business operated with my Mother and Father
~1700 Acres or ~700 Hectare in Washington, NC
Sweet Corn – Field Corn – Wheat – Soybeans – Tobacco
Soybeans and Wheat are grown for seed

Nuffield Study: Transformational ways crops are sustainably planted, cultivated, harvested and brought to market through innovation and technology.
Chris Rose

On-farm anaerobic digestion: maximising use and enhancing the value of CO2, heat and nutrients
Chris Rose

On-farm anaerobic digestion: maximising use and enhancing the value of CO2, heat and nutrients
Stuart McDonald
2018 Nuffield Scholar from Canowindra NSW, Australia
Area of Study: To sustain a continuous cropping system in a high rainfall environment by incorporating livestock

“Belmont” 1380Ha Family Farm Producing-Wheat, Canola, Chickpeas, Lupins, Merino Sheep, Stud Illawarra Dairy Cattle
Jonathan Gill

How do we embrace Automation in Agriculture?
Jonathan Gill

How do we embrace Automation in Agriculture?
YVON JASPERS

2004 - 2018

ON A MISSION
IN SEARCH OF GOOD AND INSPIRING EXAMPLES
50 ha Family Dairy Farm in County Cork

Milking 140 spring-calving crossbred cows.
Tom Robinson

Commercial Pipi Fisher
(Who can’t fish)

Software developer
(And can’t code)
Can we manage our fisheries smarter by replacing paper based reporting with iPads?
Environmental consultancy business servicing cross sector agri-businesses (Sheep & Beef, Dairy, Horticulture, & Viticulture) to solve variety of regulatory and land management related challenges; Technology Solutions; Environmental Considerations part of Strategic Farm Planning; Family Dairy Farm

2018 Nuffield Study Topic
“the policy/technology nexus – practical solutions for reducing the environmental footprint of agriculture”
Riding the slime wave: Gathering global data to enhance slug control in the UK
Jenna Ross

Riding the slime wave: Gathering global data to enhance slug control in the UK