

Michael McCarthy

PROFESSIONAL EXPERIENCE

CURRENT POSITION

April 1997 – August 2018

GLOBAL LIVESTOCK SOLUTIONS ... (formerly Professional Agricultural Services Pty Ltd)

Based in East Brisbane, Queensland.

Principal/Managing Director, whilst self-employed as an Agricultural/Veterinary Consultant

Self employed as an agricultural/veterinary consultant servicing the livestock industries both in Australia and overseas. Global Livestock Solutions (see website www.livestocksolns.com.au) conducts business under the following headings:

- Food Security
- Carbon
- Supply Chain
- Breeding Solutions

The work has addressed a range of issues confronting livestock industries over a 20-year period. Projects have varied. Some have been very specific addressing animal health issues such as ventilation and heat stress on livestock vessels. Others have been more general (exploring the market options for “out of spec” cattle in the pastoral areas of Western Australia). Many have been management related (Industry best practice). The work has entailed short-term (sometimes very short) overseas experience in livestock related matters in countries such as China, Israel, Jordan, Russia, Indonesia, Saudi Arabia, Ethiopia, Philippines, Qatar, UAE, Oman, Sri Lanka, Kuwait, Bahrain, Malaysia, Egypt, Mexico and New Zealand. A list of research achievements is shown in the appendix attached to this document.

PREVIOUS POSITIONS

April 1996 – April 1997

HEYTESBURY PASTORAL COMPANY PTY LTD Based in Brisbane, Queensland

General Manager - Beef Production

Engaged as part of the **senior executive management team** involved in the strategic decision making for the company (consisting of 14 properties running 235,000 head of cattle) run from a central office in Perth. The **General Manager of beef production** was responsible for the overall management of the company’s backgrounding and fattening properties in Queensland (5 properties) and Western Australia (2 properties).

The company had strong interest in supply chain management and downstream processing. A strategic push into South East Asia involved a series of joint venture and downstream value adding proposals, some of which were implemented.

The position involved the coordination of cattle movements between properties and had a focus on improved productivity and weight gains. A high level of financial control of on-property capital and operating expenditure was required, as were facilitation and group management skills. The company was forced to rationalize its assets late in 1996.

June 1988 – June 1992

ESPERANCE LAND AND DEVELOPMENT COMPANY (later ELD Farms) ...

Based in Esperance, W.A.

Livestock Manager

The **Livestock Manager** supervised the management of livestock on 10 large properties situated both east and west of Esperance run from a central office in Esperance. The company ran 300,000 sheep, 15,000 cattle and

cropped 35,000 acres. The position required skills in livestock marketing, property co-ordination and staff management.

The livestock manager negotiated the marketing of all the cattle, sheep and wool produced by the company. This included the seasonal supply of consistently high quality "grain fed" cattle to Woolworths. In the 1990/1991 financial year, the company produced 8,226 bales of wool (one the largest individual annual wool clips ever sold in Australia). This was followed by more difficult times as the company was guided through the drought of 1991/1992 and the collapse of the reserve price scheme for wool. 75,000 sheep were successfully marketed during the year in keeping with the national flock reduction scheme.

The livestock manager was required to solve many animal health problems associated with the company's livestock. There was a focus on improving the productivity of the company's breeder herd by improving calving rates, shortening joining periods and increasing average weaning weights and adjusting the breeding program. The position also supervised the management of the company's cattle stud which produced bulls for the large breeding herd. This involved the genetic selection of both bulls and semen based on the performance recording of cattle within the stud herd.

In 1991/1992, the company implemented an ambitious genetic upgrading program involving a nucleus upgrading flock (as an adjunct to the existing sheep stud) selected on the basis of both subjective and objective fleece measurements. Over 1\$M was spent on genetic upgrading over a two-year period.

The company went on to be a successful mixed farming enterprise and passed through multiple ownerships including the Chase Bank (U.S.A.) and National Mutual Life (AXA). The enterprise was finally broken up into smaller holdings in 2005.

January 1986 - January 1987

ANGLO-AUSTRALIAN FOODS PTY LTD

Based at Camballin Farms/Liveringa Station, West Kimberley

Sales Complex/Feedlot Manager

Responsible for the resuscitation and management of the large Inkata **selling complex** which was part of a fully integrated irrigation and pastoral property. Under foreign ownership, the irrigation project had the potential to irrigate 10,000 acres and the property ran 16,000 head of cattle.

In 1986, the position involved conducting a series of live appraisal sales (with up to 7,000 head in any one sale) that involved the feeding, dipping, drafting and trucking of cattle required to facilitate the movement of cattle to the south of the State. It also used the resuscitated feedlot facility to conduct a **pilot feedlot project** using lupins and forage sorghum that was grown in the company's irrigation project.

January 1982 – December 1984 and again from April 1994 – April 1996

AGRICULTURE WESTERN AUSTRALIA ... Based at Derby, West Kimberley.

District Veterinary Officer

Involved in the early implementation of the **Brucellosis and Tuberculosis Eradication (BTEC) program** in the West Kimberley region of Western Australia. This was a challenging time involving the development of eradication plans for all the properties involved.

Few properties had the financial capacity to eradicate the disease without considerable financial assistance. The role also involved the determination of assistance measures that were suitable for the remote areas.

The position also assisted producers to identify market opportunities, acquire overseas clients, obtain export licenses, engage vessels, organise L/C's, complete health protocols and put together cattle for the consignments. Several sites suitable for the use as a pre-feeding centre for cattle prior to export were also evaluated.

In 1994, Michael had the opportunity to return to the Kimberley as District Veterinary Officer and witness the completion of the disease eradication plans that had been determined some 10 years earlier.

QUALIFICATIONS - Tertiary Education

Bachelor of Veterinary Medicine and Surgery (BVMS)

Completed at Murdoch University (Dec 1979) Perth, Western Australia with a focus on food animal production.

Diploma of Agricultural Economics (Dip Ag. Econs)

Completed at Sydney University (Dec 1987) Sydney, New South Wales.

Attended Full time in 1985 and externally via University of New England in 1986 and 1987.

Subjects included:

AREC2002/3002 - Agricultural Marketing, Commodity Market and Price Analysis

ECOS3006 - Agricultural Policy/International Trade

AREC3005 - Agricultural Finance and Risk

Masters of Animal Science - Animal Breeding Management (MSc ABMgt)

Completed online at Sydney University Sydney (Jan 2010 - Dec 2013), Sydney, New South Wales.

Subjects included:

VETS8004 – Advanced Animal Genetics

VETS8002 – Genetic evaluation and breeding program design

RESEARCH PROJECT A – Calculating the value of genetic gain

RESEARCH PROJECT B – Calculating the economic value of sex-sorted semen

RESEARCH PROJECT C – The economic value of other products derived from advanced reproductive techniques

RESEARCH PROJECT D – The modern breeding dilemma

VETS8017 – Advanced Reproductive Technologies

VETS7025 – Leadership, People and Organisations

Certificate IV in Assessment and Workplace Training

Completed at Great Southern College of T.A.F.E. (Dec 2000) Albany, Western Australia.

Completed with a focus on the development and delivery of tailored short courses. The course qualification also provided the ability to assess competency.

Certificate IV in Business Management

Completed at Metropolitan South Institute of T.A.F.E. (July 2013) Brisbane, Queensland.

QUALIFICATIONS - Secondary Education

Educated at Guildford Grammar School, Perth, Western Australia

(School Prefect, Captain 1st XVIII)

PERSONAL DETAILS

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RESEARCH ACHIEVEMENTS

The following projects have been completed over a 20-year period.

- Conducted a project that **identified opportunities to improve the onboard live export feed ration** on livestock vessels leaving Australia. This evaluated the industry requirements in terms of both pellet quality (durability and nutritional content) and quantity. The main references were the NRC Nutrient requirements of cattle and small ruminants and CSIRO's Nutrient Requirement of Domesticated Ruminants (NRDR) (2018). *Client: MLA*
- Conducted a short, sharp, "**Review of the live export of sheep to the Middle East during the Northern Summer**". This was at the behest of the Minister for Agriculture and Water Resources in the wake of disturbing footage of animal welfare breaches on a vessel travelling to the Middle East the previous year. The **McCarthy Review** was conducted as an intense, high level study aimed at providing the live export industry with a road map to move forward. It relied heavily on a large body of **science** that had been put together over a 20-year period. To conduct the review, it was necessary to consult extensively with the minister, industry bodies, animal welfare groups and the Department of Agriculture and Water Resources (DAWR). The review was commenced on the 10th April and delivered on the 11th May. All 24 recommendations were accepted. (2018). *Client: Chief of Staff, Minister of Agriculture and Water Resources.*
- Completed a 6-month contract with a start-up **pharmaceutical company** based at Gosford (North of Sydney) **assessing the prospects of a range of potential products** aimed at the livestock industries within Australia (2017/18). *Client: Kato Labs.*
- Conducted a review of the **heat load forecasting service** utilised by the Australian Feedlot Industry. The heat load forecasting is a world class service that utilises a complex model to factor both predicted and actual weather data and its effect on heat load. The model utilises a heat load index (HLI) to determine an accumulated heat load. It also makes reference to a list of risk factors to determine a heat stress threshold. (2016). *Client: MLA/Australian Lot Feeders Association.*
- Conducted a literature review that investigated **bedding management and air quality on livestock vessels**. This modelled the factors that affect pad moisture and air quality such as ventilation, temperature and humidity, water intake and urination, stocking density, bodyweight and airflow (2015). *Client: MLA*
- Completed a project that developed and implemented an industry approach to the welfare assurances required for Australian dairy cattle overseas as part of a **dairy cattle export industry review** (2014). *Client: MLA.*
- Explored the **market options for "out of spec" cattle in the pastoral areas of Western Australia** subsequent to the suspension of the Indonesian live cattle trade (2013). *Client: Industry Funding Scheme (WADA).*
- Investigated **the prevalence and management of the scabby mouth virus** within the live sheep export supply chain and the effectiveness of the then current Saudi export/import protocol (2012). *Client: MLA.*
- Completed a project aimed at **identifying knowledge gaps and research priorities** within the Australian livestock export industry. This evaluated the extent of existing research within an industry framework for both long and short haul voyages of both sheep and cattle from Australia (2007). *Client: MLA.*
- Assisted in a project that **compared the Australian Standards for the Export of Livestock (ASEL)** to the standards that existed in other livestock exporting countries (2006). *Client: Alliance Resource Economics/MLA.*
- Assisted in the **design of experimental heat rooms** to simulate onboard conditions at Murdoch University and assisted in research into **heat stress and its effect on electrolyte balance**. Conducted experimentation to determine the benefits of electrolyte supplementation (2004). *Clients: Murdoch University/MLA.*
- Assisted in experimentation that determined the benefits of **wetting cattle to alleviate heat stress on livestock vessels**, conducted at the University of Queensland. Used practical experience to provide advice in the role as industry consultant (2003). *Client: UQ/MLA.*
- Assisted in an investigation into the cause of **premature lactation in dairy heifers** during the livestock export process (2003). *Client: MLA/Ian Lean & Assoc.*

- Completed an investigation into the live export of pregnant dairy heifers, culminating in a report outlining **best practice recommendations for the management of dairy heifers on livestock vessels** (2002). *Client: MLA.*
- Conducted an investigation into **ventilation efficiency on livestock vessels**. This was a large study examining the linkages between ventilation and livestock performance. The project was preceded by a comprehensive literature review, followed by six voyages. Measuring techniques were developed, information collected and collated and a final report produced (2000). *Client: MAMIC/MLA.*
- Developed the initial set of **best practice management recommendations** designed for the live cattle export industry that later became the basis for the Australian Livestock Export Standards (ALES). These recommendations were determined by wide industry consultation together with a comprehensive literature review to identify scientific support for the report recommendations (1999). *Client: Australasian Livestock Services Pty Ltd/LiveCorp/MLA.*
- Completed a **study into the Indonesian cattle market** shortly after the currency devaluation in early 1998. This included an assessment of the size and make-up of the Indonesian cattle herd, the potential for downstream and joint venture involvement and a look at feedlot profitability. It outlined the complementary business model that is a feature of the live export trade with Indonesia (1999). *Client: Adnam & Associates/LiveCorp.*
- Investigated the likely **impact of an outbreak of foot and mouth disease in the livestock export supply chain**. This was one of a series of six workshops conducted throughout Australia, culminating in a final report for Animal Health Australia (1999). *Client: Alliance Consulting and Management and Animal Health Australia.*
- Conducted a **Philippine meat consumption survey**. This assessed the attitudes and habits of a range of consumers in the regions of the Philippines. Results were analysed of the results and presented to industry stakeholders (1998). *Client: MLA/Adnam & Associates.*
- Assisted in the design and delivery of the early **stockman's training and accreditation workshops** for stockman travelling on long haul journeys to the Middle East and North Africa. This included the development of the **Stockman's Handbook** designed to assist stockmen on the vessels (First revision 1998). *Client: Australasian Livestock Services Pty Ltd/Livecorp.*
- Completed a comprehensive **financial analysis of a S.E. Asian joint venture feedlot and downstream processing proposal** using a sophisticated spreadsheet model with the capacity to look at changes in exchange rates and other variables (1998). *Client: Adnam & Associates.*
- Accompanied over 65 long haul shipments of live cattle and sheep from Australia to the Middle East, China, Russia, South East Asia and Mexico as an **accompanying veterinarian (AAV)** reporting to AQIS/DAWR and LiveCorp. *Clients: Australian Rural Exports (Austrex) North Australian Cattle Company (NACC), International Livestock Exports (ILE), Halleen Livestock Traders, Wellards Rural Exports, Fares Rural, Emanuel Exports, Livestock Shipping Services, Fonterra, Otway Livestock Exports, Total Livestock Genetics, Kuwait Livestock Transport and Trading, Rural and Export Trading (WA).*

June 1992 – April 1994

- Completed several **property acquisition proposals** for pastoral properties in the north of Western Australia. *Client: ATSIC and John Garland International.*
- Designed and operated a **joint venture feedlot** in the Esperance region of Western Australia that produced cattle for the "out of season" domestic market using new low capital feeding techniques. *Client: Woolworths/Wilson Traders.*

December 1986 – June 1988.

- Completed a **feasibility study into a lupin processing proposal to produce pellets for the live sheep export trade**. This involved negotiation with the Grain Pool of W.A. and the development of several overseas clients. *Client: Larchill N/L.*
- Serviced the requirements of the live export industry in regards to the **health protocols** designated by importing countries. This included work in Adelaide (S.A.) and Portland (Victoria) as well as cattle exports from Western Australia. *Clients: Farnborough and Anemtech W.A.*