

AUSTRALIA AGRICULTURAL TOUR

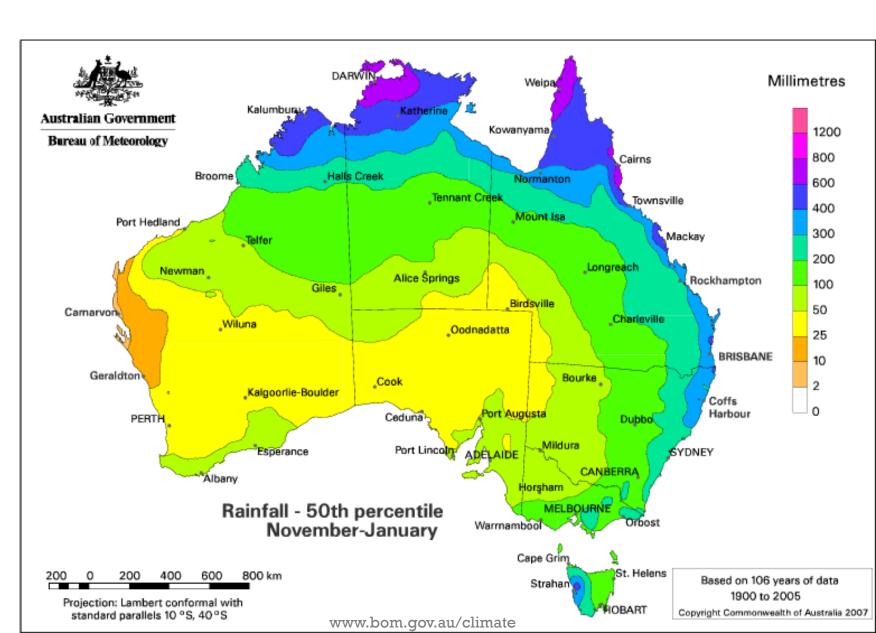






AUSTRALIA AGRICULTURAL OVERVIEW

- Due to it's large land base, Australia's agriculture varies regional based on weather and rainfall condition.
- The majority of our trip was spent in Queensland and part of it included New South Wales
- Queensland's agriculture is made up of:
 - Beef
 - Field Crops
 - Horticulture
 - Sheep Meat and Wool
 - Pigs
 - Poultry
 - Dairy



DAY 1: LOS ANGELES

- During a layover in L.A. on our way to Australia we took a bus tour of the city
- We walked on the Hollywood Walk of Fame, saw the Hollywood sign, Chinese Theatre, and the Kennedy Memorial





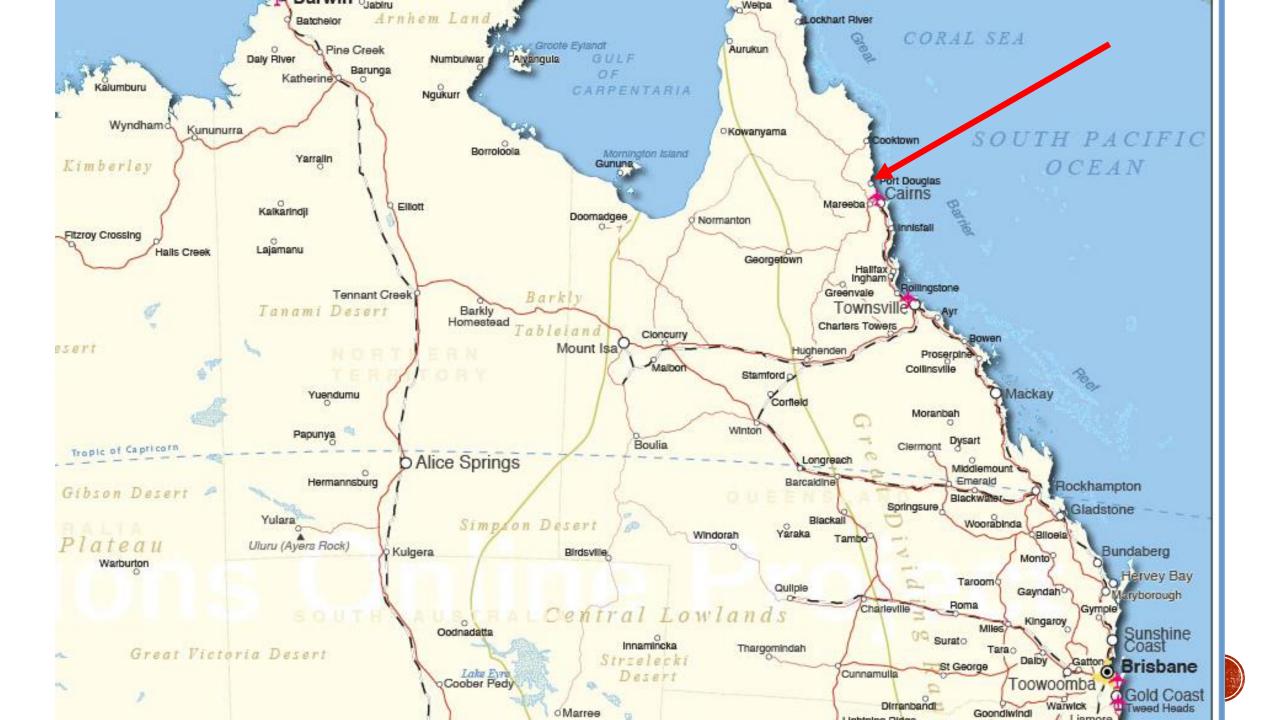






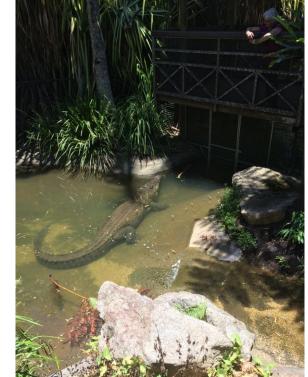




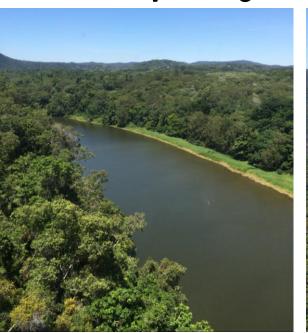


DAYS 2 & 3: THE RAINFOREST

- The wet tropics of Australia has an annual temperature around 24°C
- Average annual rainfall is 2800 mm (110 inches), but can be as high as 10,000mm (394 inches)
- The rainforest cover 2 million hectares (4,942,107ac) in Australia, which is actually only 0.3% of the continent
- Aboriginal culture here dates back to more than 10,000 years ago











Our time in the rainforest included:

- Rainforest train tour
 - 15 hand made tunnels
 - 37 bridges
 - Sea Level to 328m up the range
- Skyrail ride
- Aboriginal presentation
- Amphibious vehicle
- Barron Gorge and Falls
- Kuranda Zoo















DAY 4: THE GREAT BARRIER REEF

- 1 of the 7 wonders of the natural world
 - The world's largest coral reef
- Contains over 3000 individual reef systems and coral cays
- The Foothills group viewed the reef with the option of snorkeling, submarine, helicopter, snuba, and scuba







DAY 5: WETHERBY STATION

- Outback cattle station "ranch"
- Established in 1878
- Restored homestead
- Droughtmaster beef cattle and tourist destination



- On the western edge of the "Great Divide"
- The Great Divide is the name given to the mountain range which separates the coastal cities from inland Australia
- It is the third longest landbased range in the world





DAY 5: KUREEN FARMS

- Blueberry, macadamia nut, banana, and avocado farm
- 9,000 10,000 blueberry trees
- The blueberries are grown in pots as the soil is not suited for them
- Tarps protect from the sun and wind
- Irrigated using drip irrigation

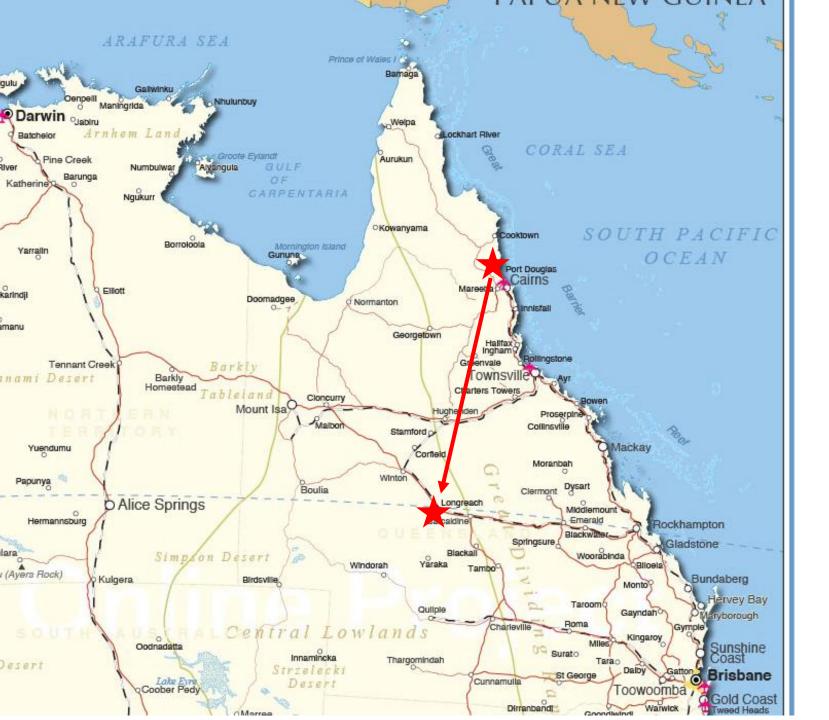






- Macadamia trees are native to Queensland
- They take approximately 8 years to produce nuts
- Harvest is done by a machine which simply scoops them off the ground
- The outer husk is removed and the seed is sold as a commodity





The group then flew from Cairns to Longreach; the Australian "outback"







DAY 6-7: THE AUS OUTBACK, LONGREACH



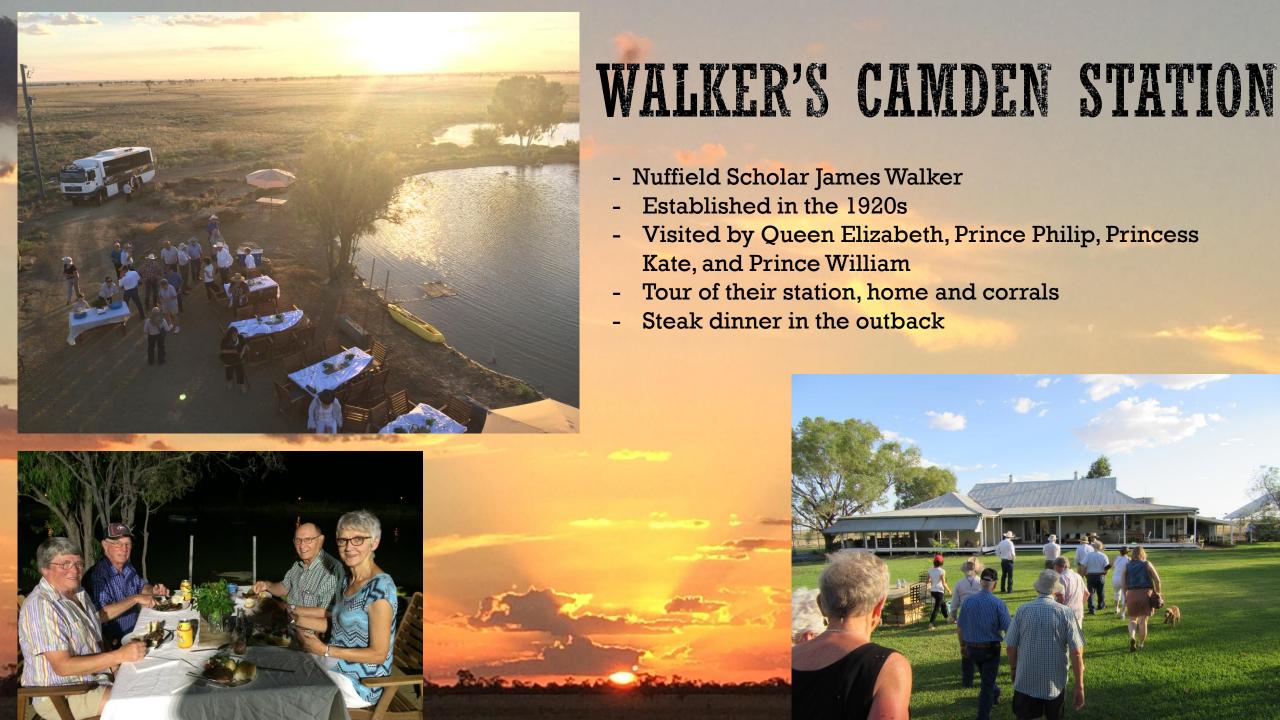
- Longreach is named after the "long reach" of the Thomson River which it sits
- The town was founded in 1887, and 1892 it grew with the railway
- On the Tropic of Capricorn
- Population of 3,137
- Main industries are cattle, sheep, and more recently tourism



- Ilfracombe The Wellshot Hotel
- Cowboy Poetry
- Stockman's Hall of Fame

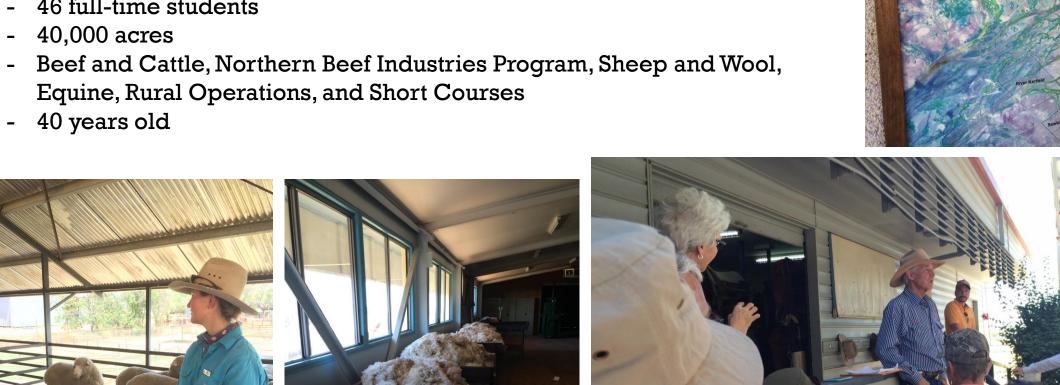






DAY 8 — LONGREACH PASTORAL COLLEGE

- Hands-on learning for "jackaroos" & "ringers"
- 46 full-time students



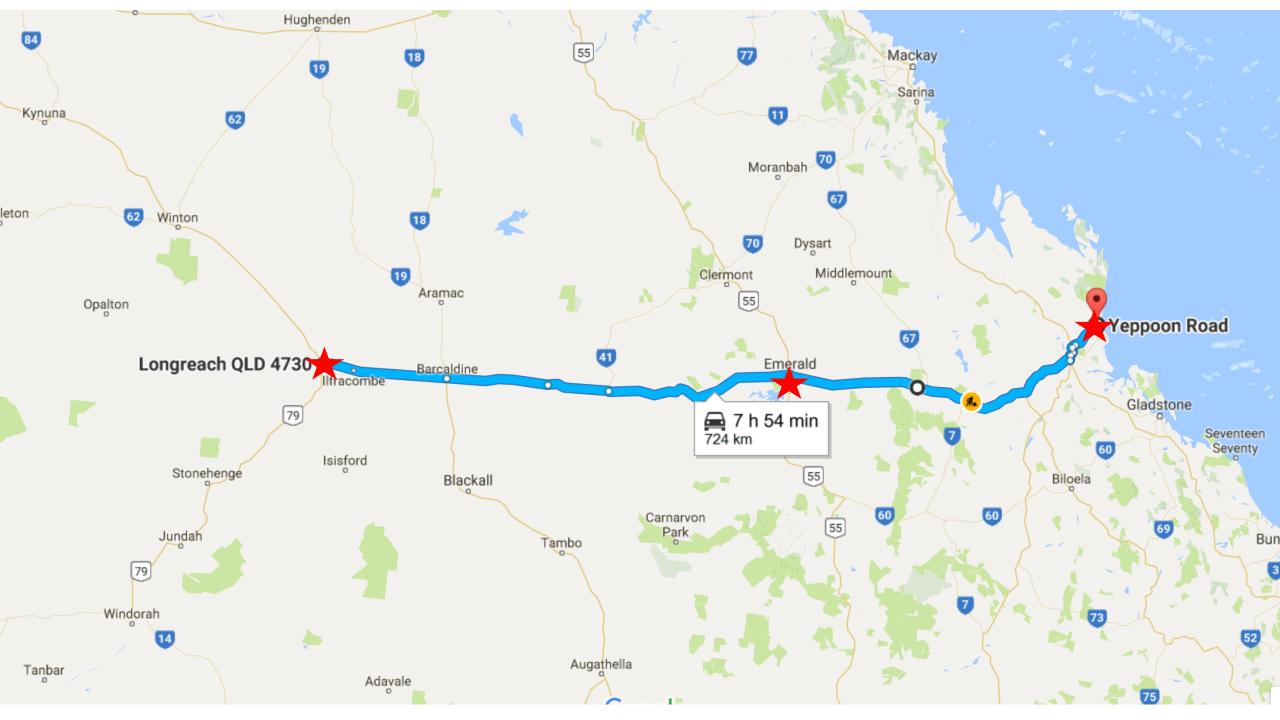














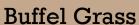


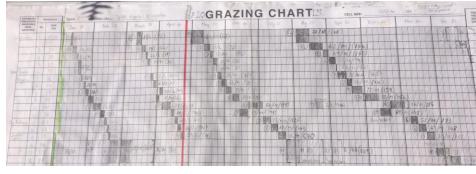
DAY 9: MELTON GRAZING

- In between Longreach and Emerald
- Rotational Grazing
- Grazing Plan
- Electric fence powered by solar panels
- Grass-fed Cattle
- Purebred Red Brahman Bulls and Brangus
- Organic, EU, MSA, and PCAS Accredited











DAY 10: 2PH FARMS

- Citrus Farm mandarins, lemons, and limes
 - Returns in citrus takes approximately 8 years
 - Minimum wage for workers is \$22.60/hour
 - Over 500 seasonal workers
 - Most seasonal workers come from Papua New Guinea, Indonesia, Malaysia, and the Philippines
- Grape Farm green grapes
 - 160 grape pickers
 - Trim all small grapes off (purely aesthetics)
 - Packed in sulphur and at 4°C













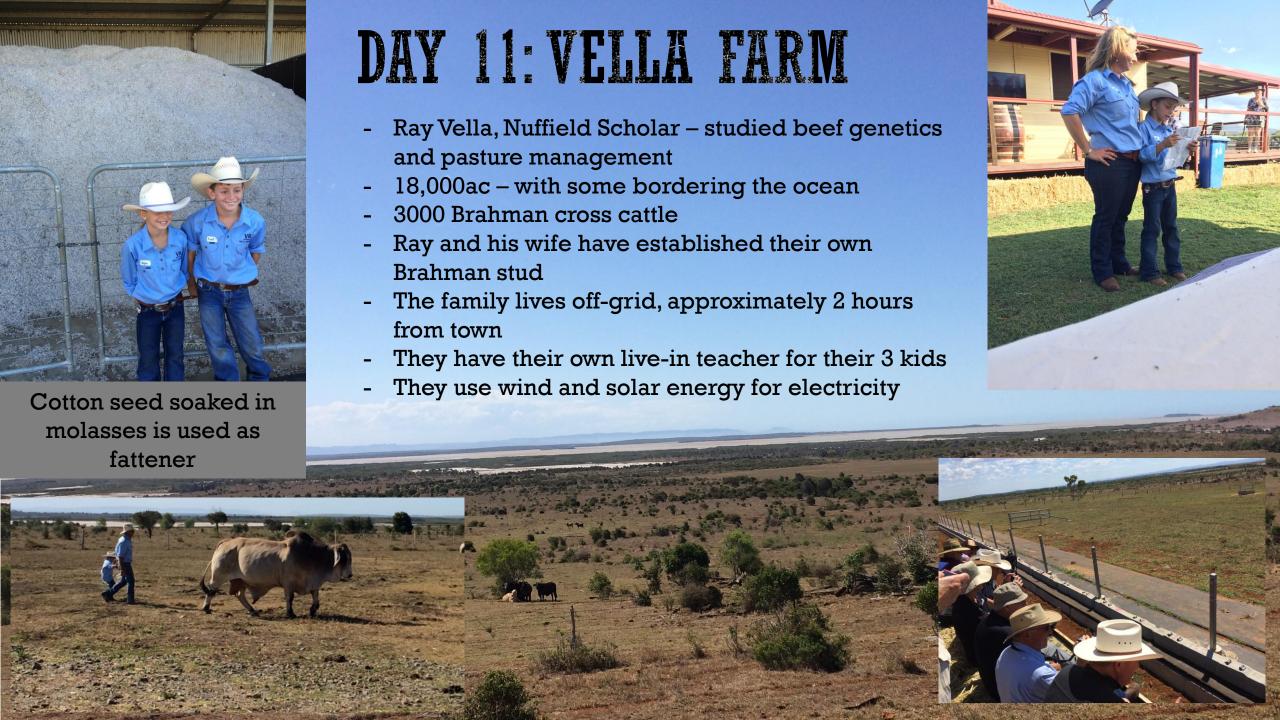
- Grain and cattle farm
- 27,000ac, 5,500ac of cropland
- 1000 certified organic cattle
- Sorghum, corn, mung beans, wheat, and chickpeas











DAY 12: CROCODILE FARM

- Koorana Crocodile Farm is an approved farm under the Australian Government's strategic conservation program
- Opened in 1981 first commercial crocodile farm in Oueensland
- Originally started out as a means of removing dangerous crocodiles
- Currently have over 3000 crocodiles at their farm
- Females produce between 40-60 eggs
- Meat/leather crocodiles are harvested around 3-4 years old
- Crocodile leather is the most durable leather in the world
- Koorana is home to the world's second largest crocodile in captivity at 10cm shy of the world record of 5.48 m (17 ft 11 in)









Dip Used to Remove Ticks



DAY 13: ROSEHALL STATION

- Kara Knudsen, Nuffield Scholar
 - Studied large scale artificial insemination techniques for northern cattle herds
- Santa Gertrudis Cattle
- Forest Country and Native Pastures
- Genetics focused
- "Calf or Carcass" rule
- Fixed Time Artificial Insemination used extensively
- Bulls are tested annually and non-performing breeders are culled
- Over 15km of river is fenced off to enhance water quality, biodiversity, and animal health



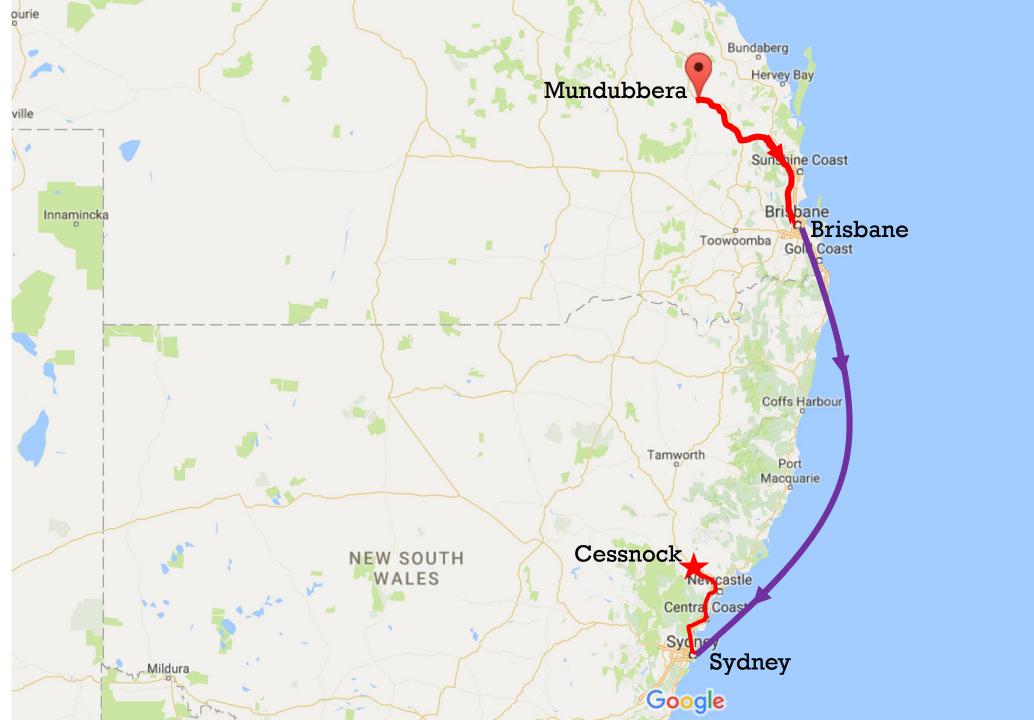


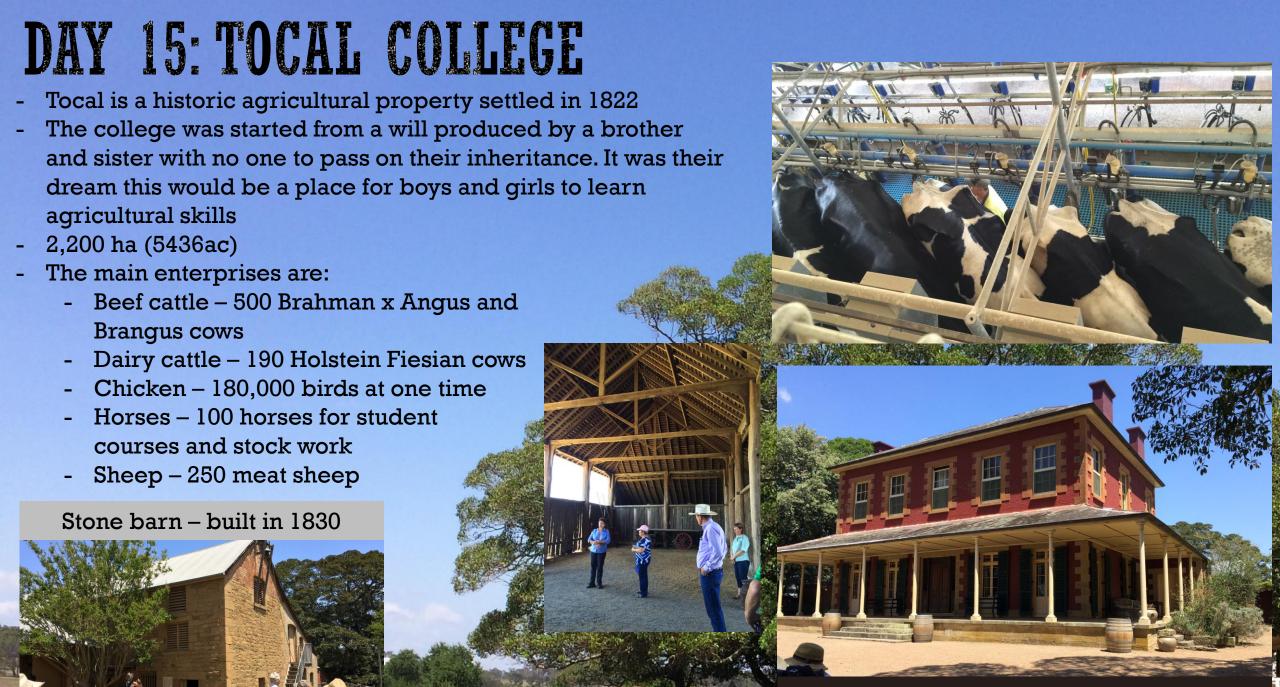




DAY 14: GLENDEN BULLOCK TEAM

- Bullock's were traditionally used to clear the forest land for agriculture and development
- History dates back to 1795 in Sydney,
 New South Wales for hauling building material
- Traditionally used for logging and transporting essential food and station supplies to isolated areas
- Bullocks were used because they were less excitable, tougher, and more dependable than horses
 - Team was controlled by a "Bullocky" who would use a whip and commands to indicate direction and keep the bullocks in line





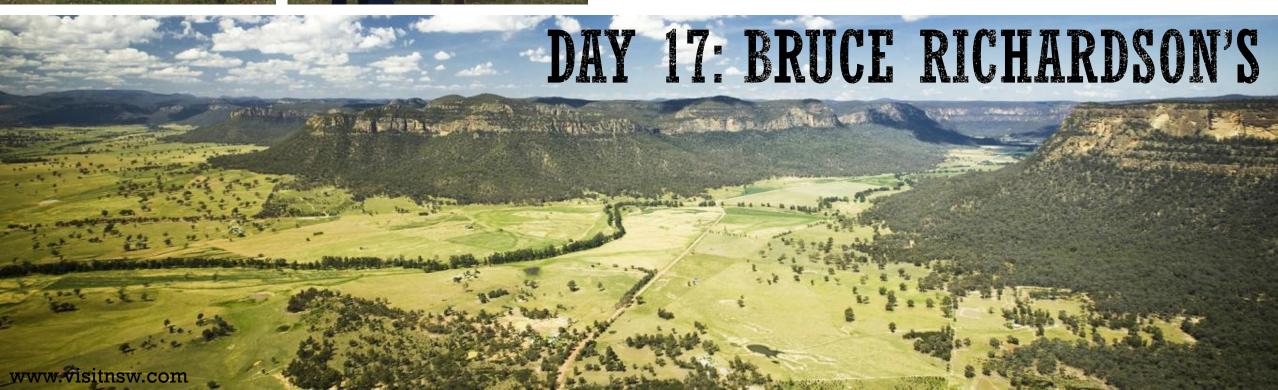
Original Homestead







- Bruce and his wife Lyn live in the world's second largest canyon, the Capertree Valley
- They recently sold their cattle since we visited and have gone into breeding race horses, some of which have won many titles
- Lyn is a member of the Australian Stock Horse
 Society and raises thoroughbreds and Australian
 Stock Horses.
- She was a jockey in the past and now teaches lessons



DAY 18: TOULON PASTORAL

- Holistic managed sheep farm
- Merino wool producer
- Grazing management and pasture rotation
- Part of "green movement"
- His "Rule of Thirds": Graze 1/3, Trample 1/3, Leave 1/3
- Owns electric truck charged by solar power



DAY 18: GLENWOOD MERINOS

- Early adopter of Australian Sheep Breeding Values (ASBVs)
 - Key economic traits and rapid genetic gain
- 5th generation woolgrowers
- Sell breeding studs, and starting in their own wool products
- Sheering done once every 8 months, costs approximately \$100,000 in labour and fees
- Norm Smith has won "Farmer of the Year"
- Rotational grazing, pasture management









DAY 19: SYDNEY OPAL EXPERIENCE

- Opal is a hydrated amorphous form of silica
- It forms within rocks and even fossils
- The type of rock it forms in, determines it's color
- Opal is the national gemstone of Australia
- Home to the world's largest gem opal, the "Olympic Australias"



- Sydney architecture is characterized by early 19th century colonial Sydney sandstone, Federation style, and later high rises following WWII
- All new buildings must be approved architecture and historic buildings are to be left and built around/renovated on

DAY 20: SYDNEY AND HARBOUR CRUISE















QUESTIONS?















