

Robert Dunn Education Officer Tocal Agricultural College



CB Alexander Agricultural College

Tocal Paterson

Lower Hunter

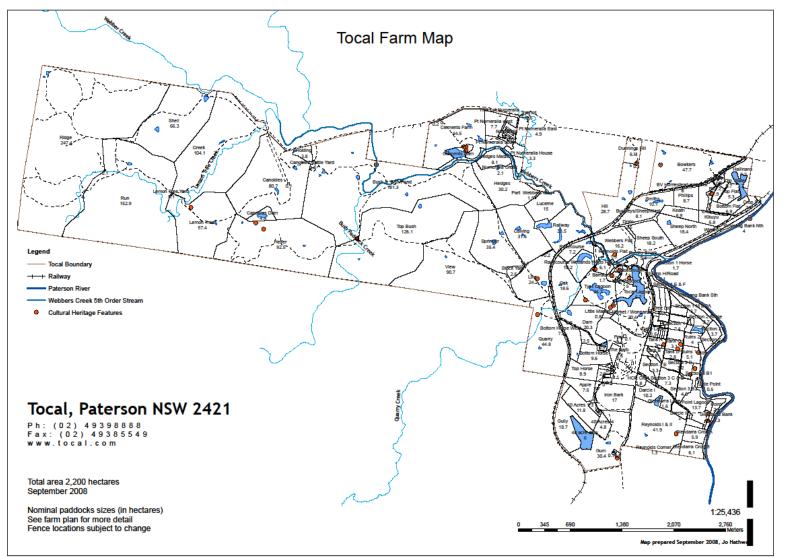
2200 Ha

Established in 1965

120 Fulltime Students

30 Dairy and Rural Trainees







Beef 1100 head 600 Brangus Cows

Angus, Brangus and Charolaise Bulls

Sale of yearlings on local stores market

Calving mainly in spring 93% calving 950 mm (38") rainfall





Bona Vista (sheep)

Purchased1974

100 hectares

200 Dohne breeders and130 future breeders

Wool Production Over 1.5 tonne per year





Dairy Area 300 hectares

360 in herd (Fresian and Illawarra)

Weekly average production is 37,500 litres/week

Per Cow lactation 7,700 litres

Ryegrass, white clover, red clover, Kikuyu and Lucerne





Stock horses

20 Australian Stock Horses (ASH) for working cattle

20 breakers for student training

21 ASH mares for breeding replacements

2 ASH Stallions

20 Foals 20 Yearlings





Numeralla (Free range eggs)

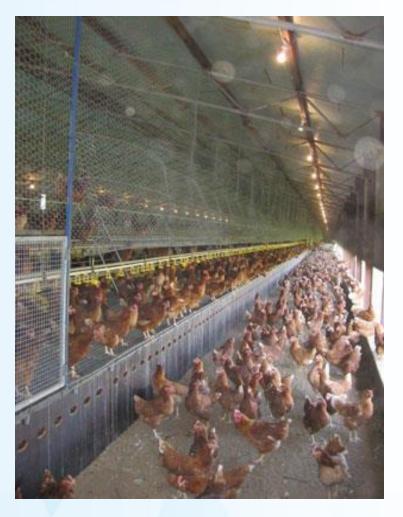
Purchased1981

by CB Alexander Foundation

Shed Area 8,762 sq m,

90,000 hens laying 70,000 eggs/day

16,000 eggs packed/hour off conveyors





Challenges to Tocal's Sheep Breeding Enterprise

950 mm rainfall average **High humidity** Flooding forcing sheep onto a small area. 50ha area available to run the sheep.





Challenges to Tocal's Sheep Breeding Enterprise

Distance from markets Internal parasites Wild dogs and Town dogs Dry November and **Decembers** Pasture quality variability





Since the year 2000 close to 200 dogs have been eliminated.

Dogs are kept under control by Shooting, Baiting, Trapping and use of a Sheep Protection dog since 1996.







Positives of Tocal's Sheep Breeding Enterprise

Educational opportunities for all Tocal students Cert III

Handling, medicating, marking, culling, ewe and ram selection, weighing and recording, selling.

Cert IV

Managing joining, lambing, mothering and tagging, shearing and crutching, wool classing.





The expectation of both a learning place and a workplace & National Curriculum

Hands on learning is an integral part of the a Tocal students experience and is an important part of Tocal students studies within the National Australian Qualifications Framework competencies for Certificate levels III and IV





2008 flock established with 50 scanned in lamb maiden ewes from Roseville Park Dohne stud.

2009 purchased 50 cast for age ewes from Roseville Park.

On going Ram purchases from Roseville Park Dohne stud.

All ewe progeny are retained for training purposes.

2015 was the first year where a full confirmation and wool cull was

undertaken.

The self replacing flock in 2016 130 mixed aged ewes 104 maiden ewes 114 ewe hogget's Future 100 mixed age ewes 100 maiden ewes 100 ewe hogget's





Dohne and XB \$ Comparisons 2009 to 2012

XB and Dohne wether lambs same price on the same market Cast for age returns for Dohne and XBs ewes was equal. Wool and meat returns for Dohne and XBs was equal. The Dohne PLUS are the replacement keeper ewe lambs. Saving Tocal \$20,000 to \$25,000 every 6 years.





Tocal 2015 cast for age and surplus to requirements sale sheep Store weaner wethers \$75 Ewes sold at Dubbo Av \$84





Tocal 2015 drop wether weaner lambs sold as stores in December 2015 growing out well in January for the new owner.





2008 Lambing XB Dohne 2009 Lambing XB Dohne 2010 Lambing XB Dohne 2011 Lambing XB Dohne 2012 Lambing XB Dohne 2013 Lambing Dohne Ewe **Dohne Maiden** 2014 Lambing Dohne Ewe Dohne Maiden 2015 Lambing Dohne Ewe **Dohne Maiden**

120% 95% 135% 115% 123% 123% 107% 117% 120% 120% 127% 112% 110% 94% 102% 77%



Wool statistics 2011 Fleece 19.9 mic 2012 Fleece 19.9 mic 2013 Fleece 19.3 mic 2014 Fleece 19.4 mic 2015 Fleece 19.5 mic

Cut 5.1 kg av Cut 4.2 kg av Cut 3.8 kg av Cut 4.2 kg av Cut 4.6 kg av Clean 1472 c/kg Clean 1061 c/kg Clean 1260 c/kg Clean 1231 c/kg Clean 1342 c/kg





Industry visits are an important part of the students learning process









Tocal has a policy of including students in all aspects of the Tocal Farms. This hands on approach and students being encouraged to take responsibility for their own learning forms:

Attitude (internal beliefs) Culture (collection of reinforced behaviours) and Behaviour (what people say and do)

The hands on experiences and responsibilities working with the Dohne flock gives the students a sense of pride and accomplishment.



