

## MLA and AWI Wool and Sheepmeat Survey Report - Sheepmeat

June, 2019

**Prepared by Kynetec** 



## Contents



Executive Summary	3
Background and Purpose	4
Methodology	5
Survey Respondents	8
MLA Sheep Producing Regions	12
National Results	13
Results by State	17
Results by MLA Reporting Region	21
Regional Snapshots	31



## Executive Summary – Lamb Production



### Number of breeding ewes on hand

42,479,693 total breeding ewes on hand 31,547,950 Merino breeding ewe flock, 74% of total breeding flock 10,931,743 total non-Merino breeding ewes on hand, 26% of total breeding flock Within the Merino flock, 74% for Merino lamb production and 19% for other lamb production

### **Ewe flock intentions for next 12 months**

28% increase61% maintain10% decrease

### Intended method for achieving ewe flock increase

36% Retain more older ewes than normal 58% Retain more replacement ewes than normal 39% Purchase more additional ewes than normal

### Number of lambs on hand

17,196,348 total lambs on hand 9,626,810 total Pure bred Merino lambs, 56% of total lamb flock 7,569,538 total non-Merino lambs, 44% of total lamb flock

## Expected lamb sales in the next four months (1 Jul – 31 Oct)

6,275,217 total lamb sales in the next four months 1,307,025 total Pure meat sales (21% of total lamb sales) 1,771,909 total First cross sales (28% of total lamb sales) 1,935,618 total Merino sales (31% of total lamb sales)

1,260,665 total other breed sales (20% of total lamb sales)

## Number of lambs marked in the past four months (1 Mar – 30 Jun)

5,914,189 total lambs marked in the past four months 2,530,829 total Merino lambs marked (43% of total markings) 3,383,360 total non-Merino lambs marked (57% of total markings)

### Number of ewes joined to produce those lambs

6,451,763 total number of ewes joined to produce those lambs 2,908,203 total Merino lambs joined (45%) 3,543,560 total non-Merino lambs joined (55%)

### Marking rates

87% National Merino marking rate 95% National non-Merino marking rate



## Background and Purpose



### **Survey Background**

The Wool and Sheepmeat survey has been running in various formats for the past 17 years. The survey has been running in its current format since June 2010, following discussions with MLA's Lamb Forecasting Advisory Committee (LFAC), where MLA decided that they needed to use a more vigorous methodology going forward.

Due to the success of the survey, a management agreement between MLA and AWI was negotiated and AWI signed on for the next wave in October 2010.

Since October 2010, MLA, AWI and the LFAC have worked closely to further develop the model, sample and breed code frame for the now combined Wool and Sheepmeat survey.

Kynetec took over from Axiom in October 2016 and have been working closely with MLA and AWI to increase the number of respondents and the amount of data collected by streamlining the online and mail-out surveys.

### Purpose of the research

The project provides MLA and AWI with an accurate representation of flock population, demographics, sheep meat and wool supply information and producer production intentions during key production periods throughout the year.

The survey enables MLA and AWI to provide the Lamb Forecasting Advisory Committee (LFAC) and the Australian Wool Production Forecasting Committee (AWPFC), with solid forward looking information to assist industry projections.

Although information gathered has been extremely useful in flock and production forecasts, MLA and AWI are continuing looking to add further value to the study by better aligning the sample collected with industry production structure and making better use of the results in various internal and external publications.



## Methodology [1/3]



### **Sampling**

The MLA and AWI Wool and Sheepmeat survey for June 2019 was built around the collection of an industry representative sample of sheep producers across all sheep growing regions of Australia. In order to achieve a representative sample, sheep producers were sampled with strong representation within each MLA defined sheep production region. A total number of 2,256 survey responses were achieved in June 2019, up from the 1,675 surveys in February 2019. Given many large producers have multiple properties in different regions and states and their possible impact on weighting, we reported the results based on number of properties rather than respondents. As a result, 3,381 properties were included in the survey.

### **Data Collection**

Three survey methodologies were adopted in order to collect the target sample:

- 1. Online web based survey: This methodology was presented to potential respondents using two different communication tools (email survey links and website survey links).
  - I. Website survey links: Two survey links were given to MLA and AWI to place on their website and to include in selected external communications with producer stakeholders e.g. Friday Feedback and Feedback magazine. Copies of these links were also sent to members of the Lamb Forecasting Advisory Committee (LFAC) to include in their email signatures and place on their websites during June. A total of 20 respondents completed the survey via this method (1% of the total sample).
  - II. <u>Email survey links:</u> A link to the survey was created for email purposes so Kynetec could track the number of completes and partial completes throughout the survey period (1 to 30 June 2019) and send reminder emails accordingly. A total of 13,286 emails were sent to MLA and AWI members via the email addresses provided by MLA and AWI databases. Of those 1,310 emails bounced, giving a total emails delivered of 11,967. A total of five reminder emails were sent to non-respondents with a significant number of completes achieved after each reminder. The email survey link returned a total of 1,535 completed responses (68% of the sample).
- 2. <u>Mail-out survey:</u> A hard copy questionnaire and a reply paid envelope was sent to a random sample of 5,000 producers from the FARM database (Fairfax Agricultural Research and Marketing). This methodology was supported by CATI reminder calls to producers in specific regions (Tasmania, Murrumbidgee and western NSW) in order to boost response rates. A total of 701 producers responded by this methodology (31% of total sample).
- 3. <u>Telephone surveys:</u> In an attempt to boost the sample of very large sheepmeat and wool producers for the study, approximately 100 calls were made to MLA's top 50 sheep levy payers in order to do the survey over the phone. As a result of telephone calls an the online survey, a total of 15 very large producers were included in the survey (Ewe flock size >20,000 head).



## Methodology [2/3]



### Weighting

Breeding ewe and lamb estimates were developed by weighting the number of respondents by both state and flock size to the number of farm businesses with breeding ewes. Wether estimates were developed by weighting the number of respondents by state to the number of total farm businesses with sheep and lambs.

As with all Wool and Sheepmeat surveys since February 2018, the ABS population of producers used for weighting the survey data was is regularly adjusted to account for the significant number of smaller producers (flock sizes of less than 250 head) that were excluded from the ABS census and surveys due to the \$40,000 EVAO cutoff. A comparison of the adjusted producer populations used for breeding ewe and lamb estimates for the last five Wool and Sheepmeat surveys is below.

The producer populations will be updated for the October 2019 survey based on the latest release of ABS data.

State	Breeding Ewe	Breeding Ewe
	Producers used for	Producers used for
	Feb, June & Oct	Feb & June 2019
	2018	
Australia	35,947	37,238
New South Wales/ACT	13,725	14.075
Victoria	9,173	9,473
Queensland	1,410	1,497
South Australia	5,414	5,827
Western Australia	4,906	5,000
Tasmania	1,318	1,387



## Methodology [3/3]



### **Statistical significance**

The total research sample of 2,256 will give the results of this study a margin of error of ± 2.01% at a 95% confidence level based on 37,238 breeding ewe producers in Australia (ABS 2016-17 Census adjusted for \$40,000 EVOA cutoff). This is basically saying that if you conducted the same survey 100 times, 95 out of the 100 sheep producers should yield results within ± 2.01% of the published number or percentage. However, the % of error increases as the sample size decreases (e.g. at the state and regional level).

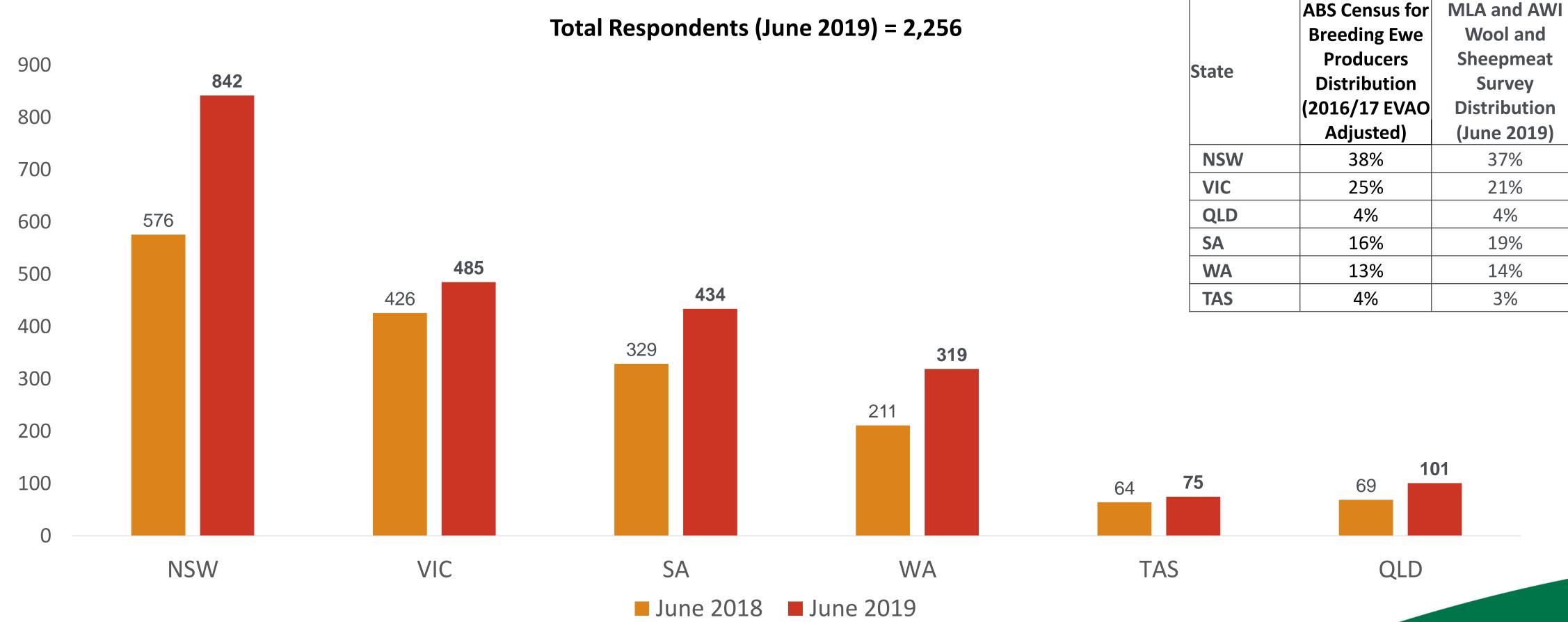
•	New South Wales	± 3.28%
•	Victoria	± 4.35%
•	Queensland	± 9.45%
•	South Australia	± 4.54%
•	Western Australia	± 5.32%
•	Tasmania	± 11.04%





## Survey Respondents [1/4]: By State

The total number of respondents (n=2,256) represented national industry distribution of breeding sheep producers producers (29,443 as reported in the ABS Census 2016-17 with an adjustment to 37,238 for the new EVAO cutoff of \$40,000), with the proportion of respondents in each state being similar to that of the Census producer distribution. The ABS perform a substantial yearly survey of 35,000 agricultural businesses between Census years in order to continually track agricultural production and producer population. Although it is a survey, it is still indicative of the industry structure and sheep producer distribution and will be used to update state sampling structures in future surveys.



## Survey Respondents [2/4]: Total Flock Counts (Merino & Non-Merino)





### **MLA Reporting Regions** Central NSW East Vic Northern NSW/Qld SA Peninsula Tasmania Western Australia Wimmera Mallee Murray

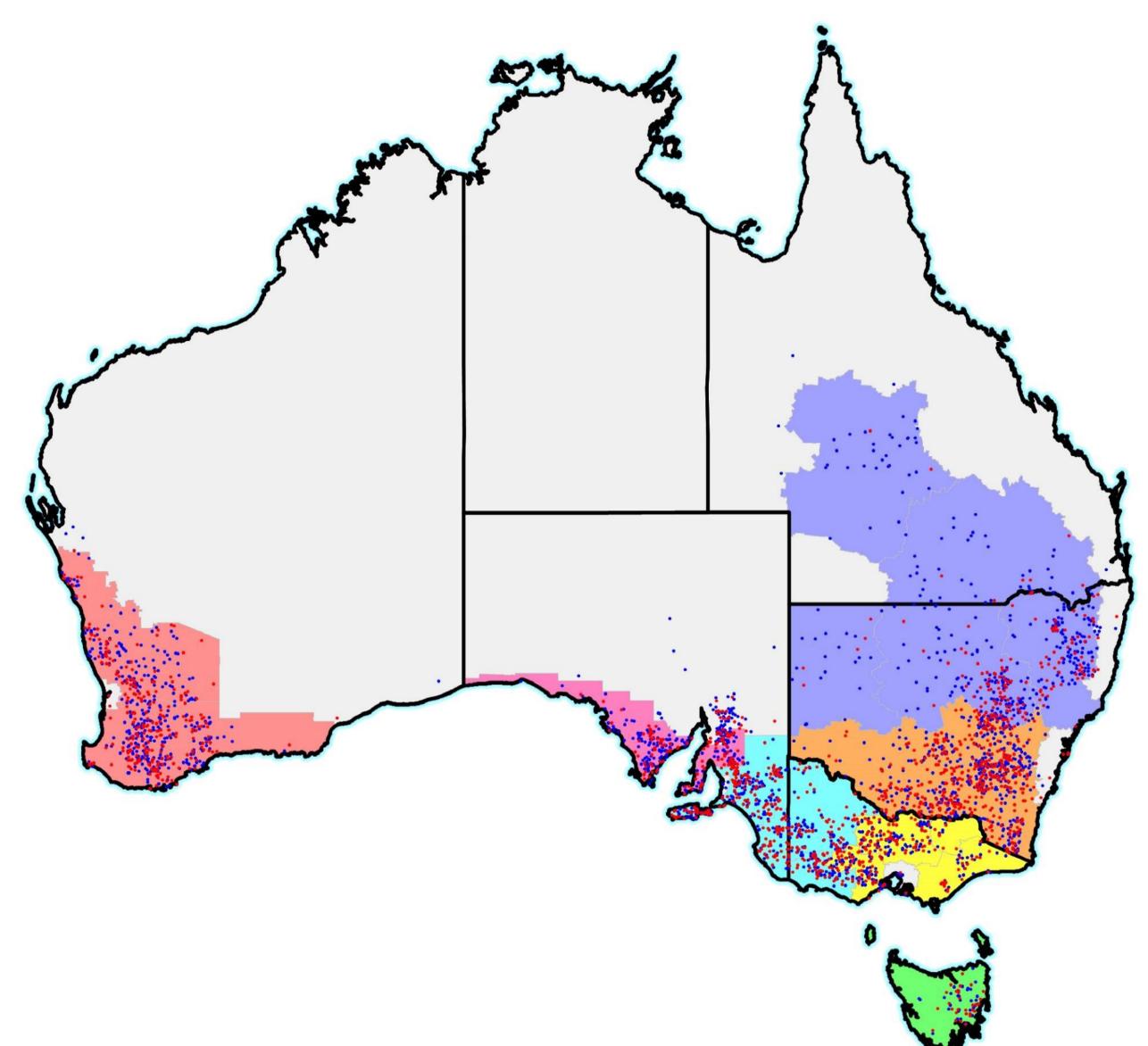
#### Merino flock count

by Postcode

1 Dot = 1

Non merino flock count

1 Dot = 1



Total properties: n = 3,381

Merino: n = 1,834

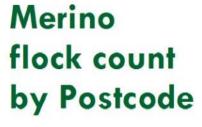
All other: n = 1,451





## Survey Respondents [3/4]: Merino Flock Counts



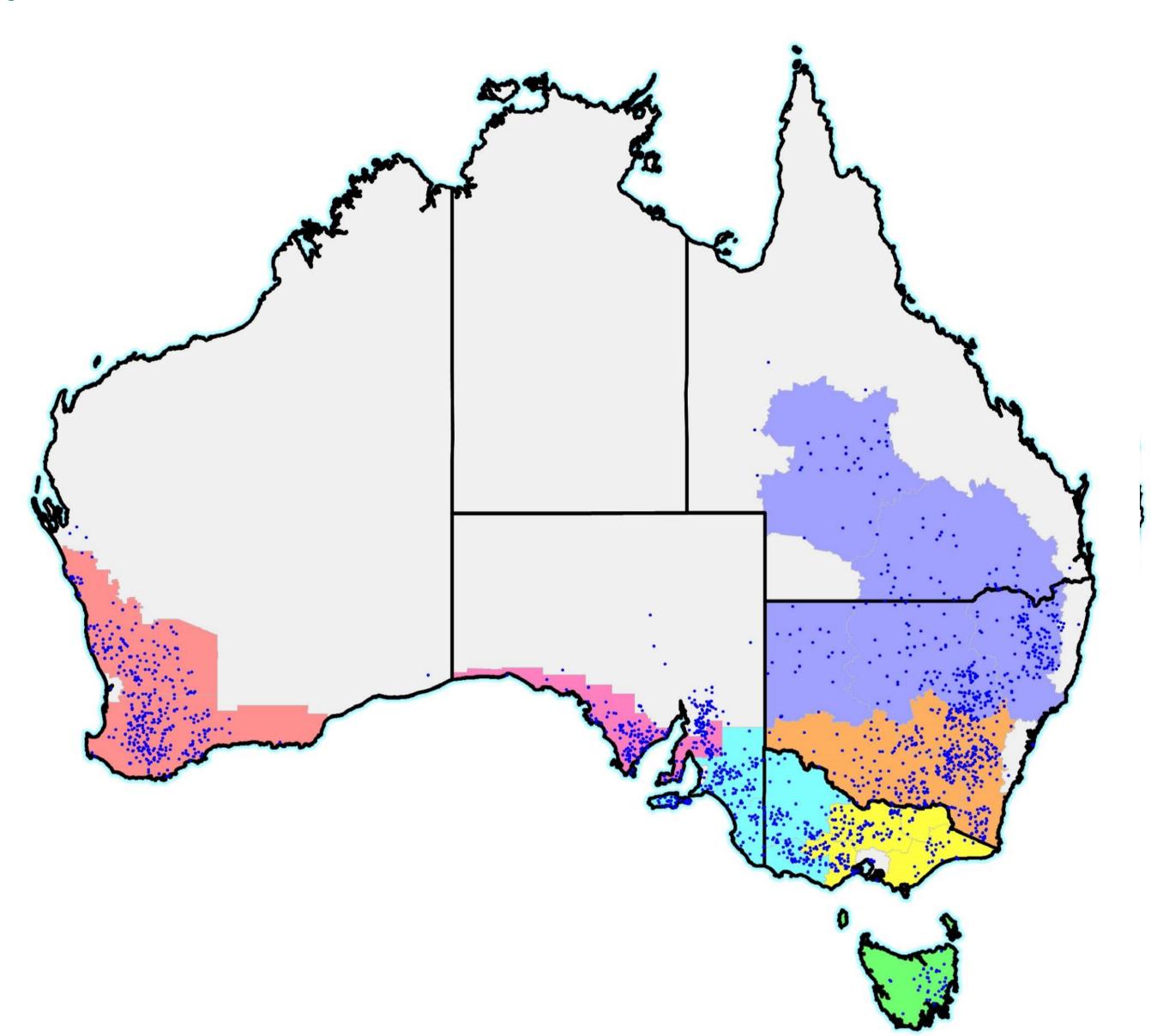


## MLA Reporting Regions Central NSW East Vic Northern NSW/Qld SA Peninsula

Tasmania
Western Australia
Wimmera Mallee
Murray

#### Merino flock count

1 Dot = 1



Merino properties: n = 1,834





## Survey Respondents [4/4]: Non-Merino Flock Counts



Non merino flock count by Postcode

### MLA Reporting Regions Central NSW

East Vic

Northern NSW/Qld
SA Peninsula

Tasmania

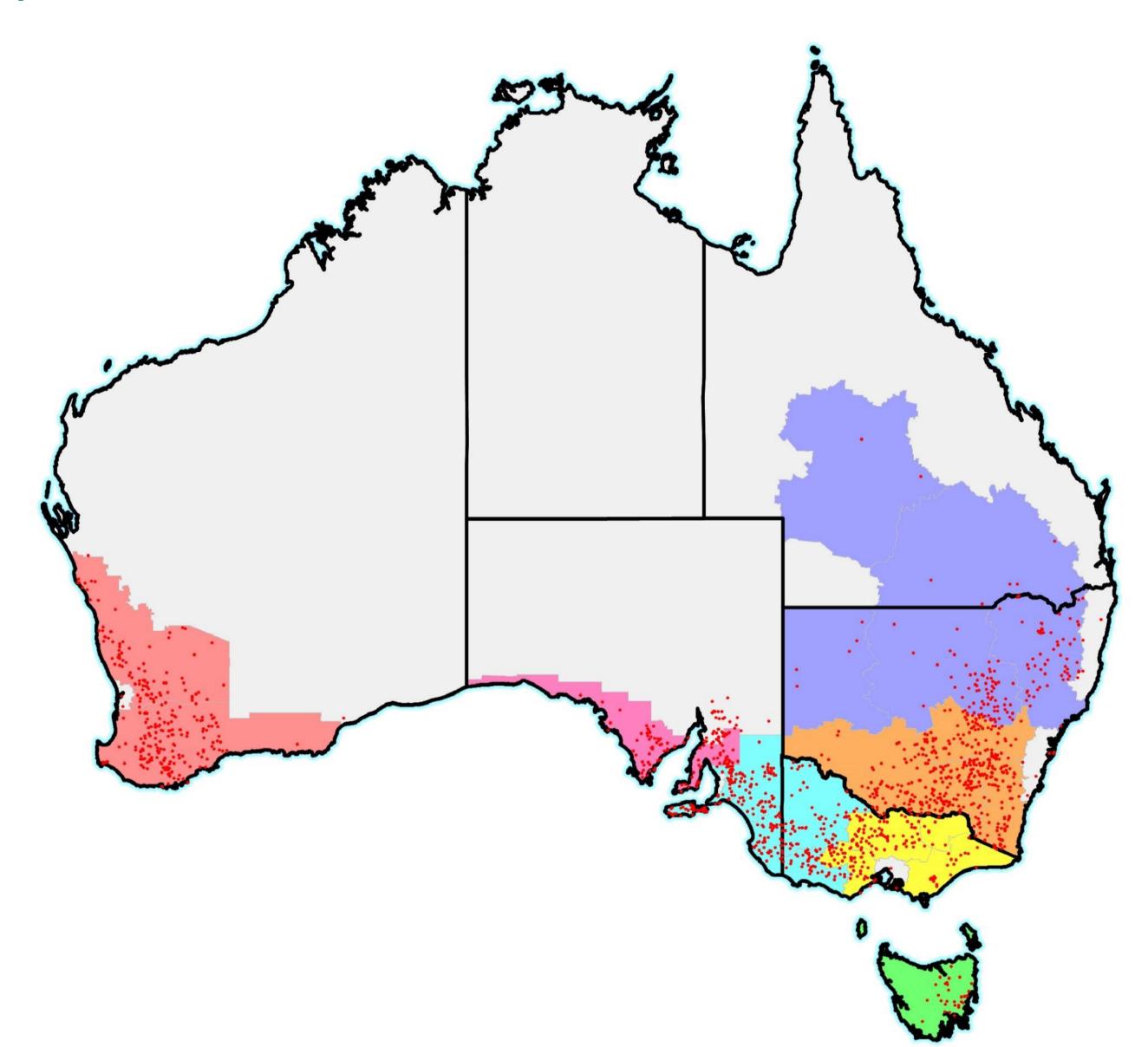
Western Australia

Wimmera Mallee Murray

Non merino flock count

by Postcode

1 Dot = 1



All other properties: n = 1,428



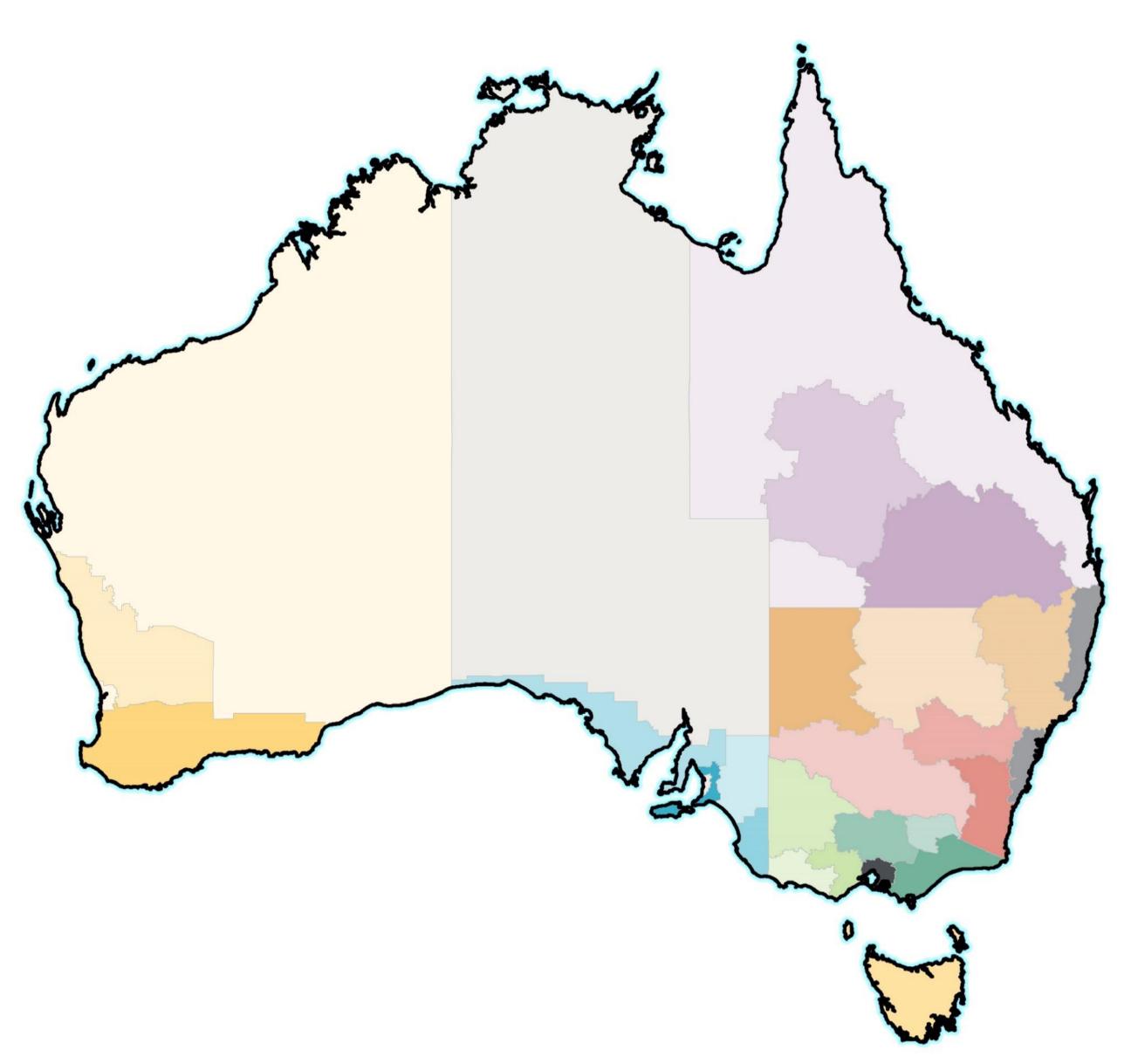


## MLA Sheep Producing Regions

## INCORPORATING ECLARK

### **MLA Regions**





Due to seasonal and growing condition variability throughout Australia and even within states, Australia was divided into 26 sheep producing regions so that sheep numbers and flock demographics could be reported at a regional level.

Of the 26 sheep producing regions, 7 are located in NSW, 7 in Victoria, 5 in SA, 3 in WA, 3 in Queensland and 1 in Tasmania. These producing regions are likely to change as the flock distribution changes.







## National Results

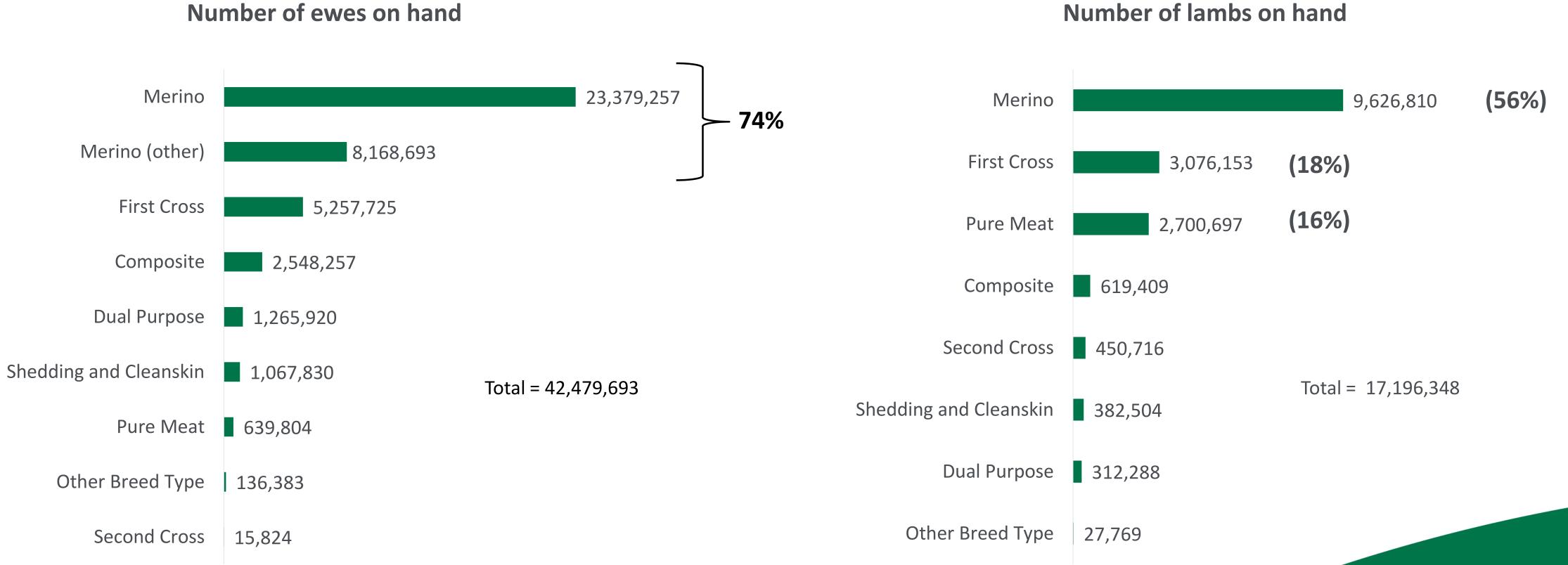


## Ewes on hand and Lambs on hand - Australia



Merinos accounted for 74% of the total breeding ewe flock at 42 million head. Merino breeding ewes were further divided into Merino ewes for pure bred Merino production and Merino ewes for crossbred production and 'other' Merinos, accounting for 74% and 26% of the merino flock, respectively.

There were 17 million lambs on hand at 30 June 2019. Merinos made up 56% of the total lamb flock, at 9.6 million head, followed by First cross and Pure meat lambs (accounting for 18% and 16% of the national lamb flock respectively).



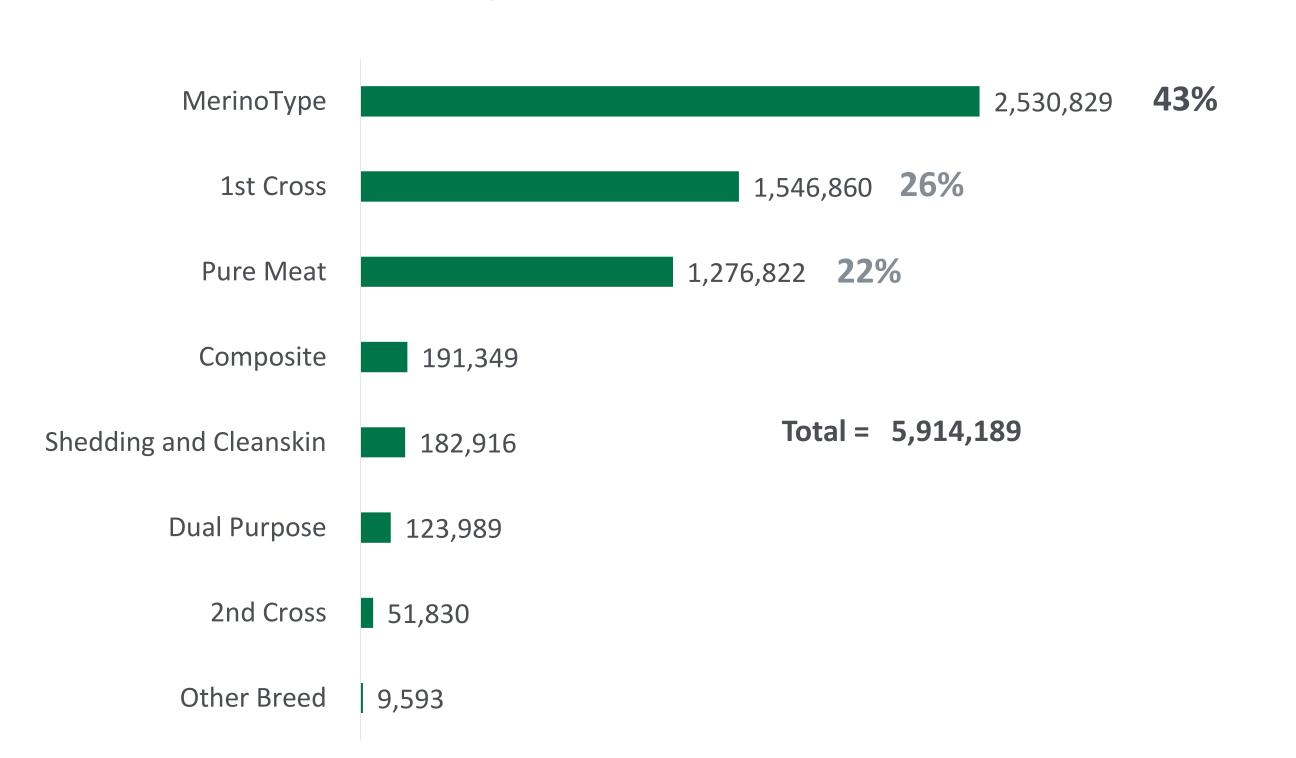
# Lambs marked in the past four months (1 Mar - 30 Jun 2019) and Ewes joined to produce those lambs - Australia



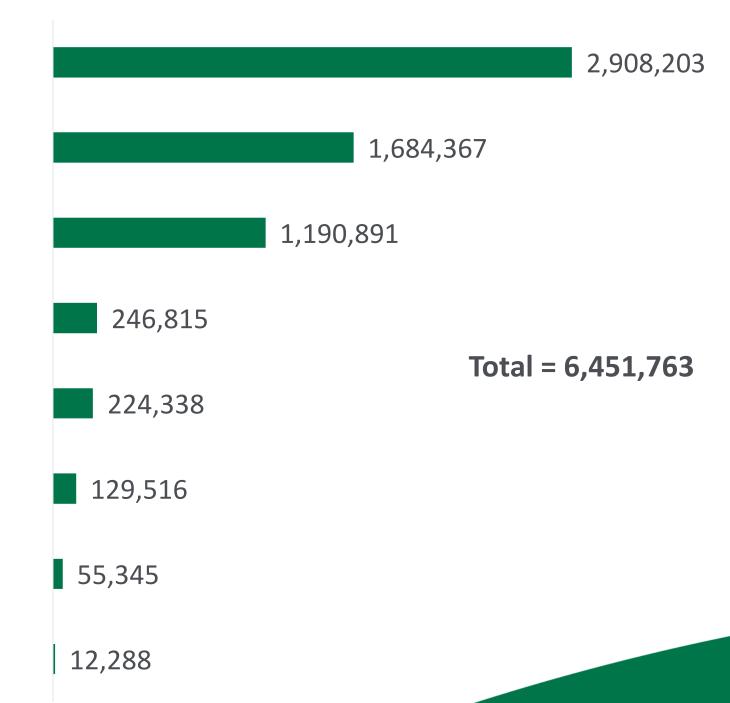
There were a total of 5.9 million lambs marked in the four months (from 1 March to 30 June 2019). Merinos accounted for the largest proportion of lambs marked in the past four months at 43%, with First cross and Pure meat breeds accounting for 26% and 22%, respectively.

A total number of 6.4 million ewes were joined to produce the lambs that were marked in the past four months. National Merino marking rates were well below that of non-merino breeds at 87% and 95% respectively.

### Lambs marked in the past 4 months (1 Mar to 30 Jun)



### Ewes joined to produce marked lambs (1 Mar to 30 Jun)



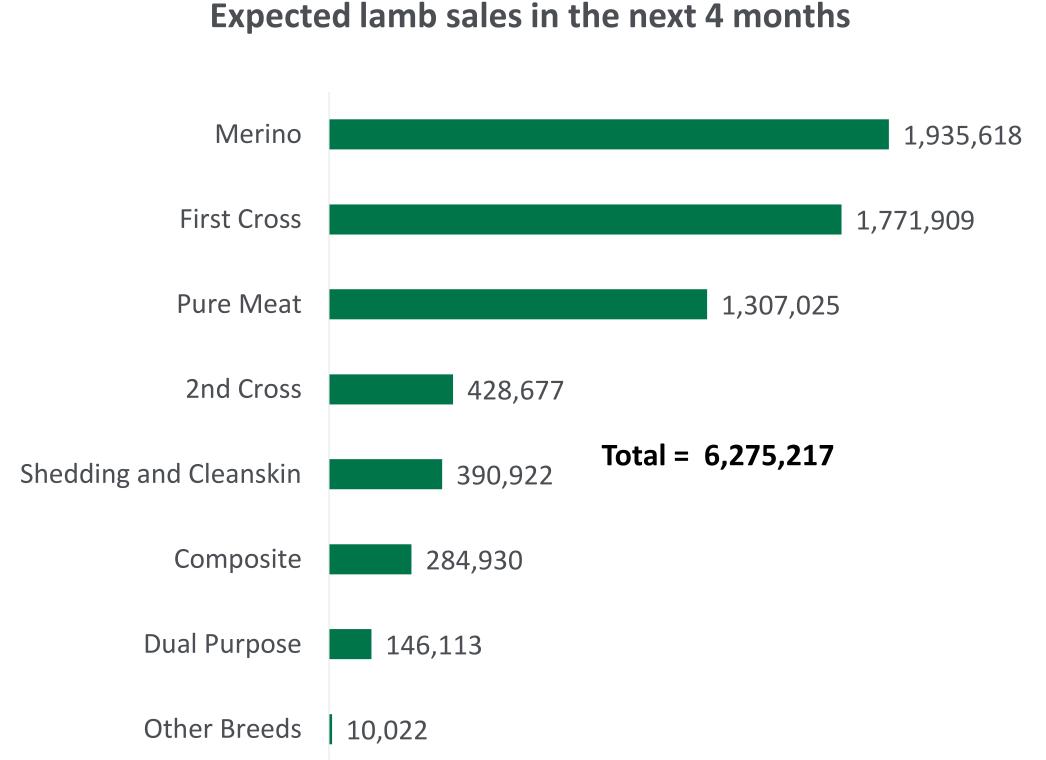


## Expected lamb sales in the next 4 months - Australia



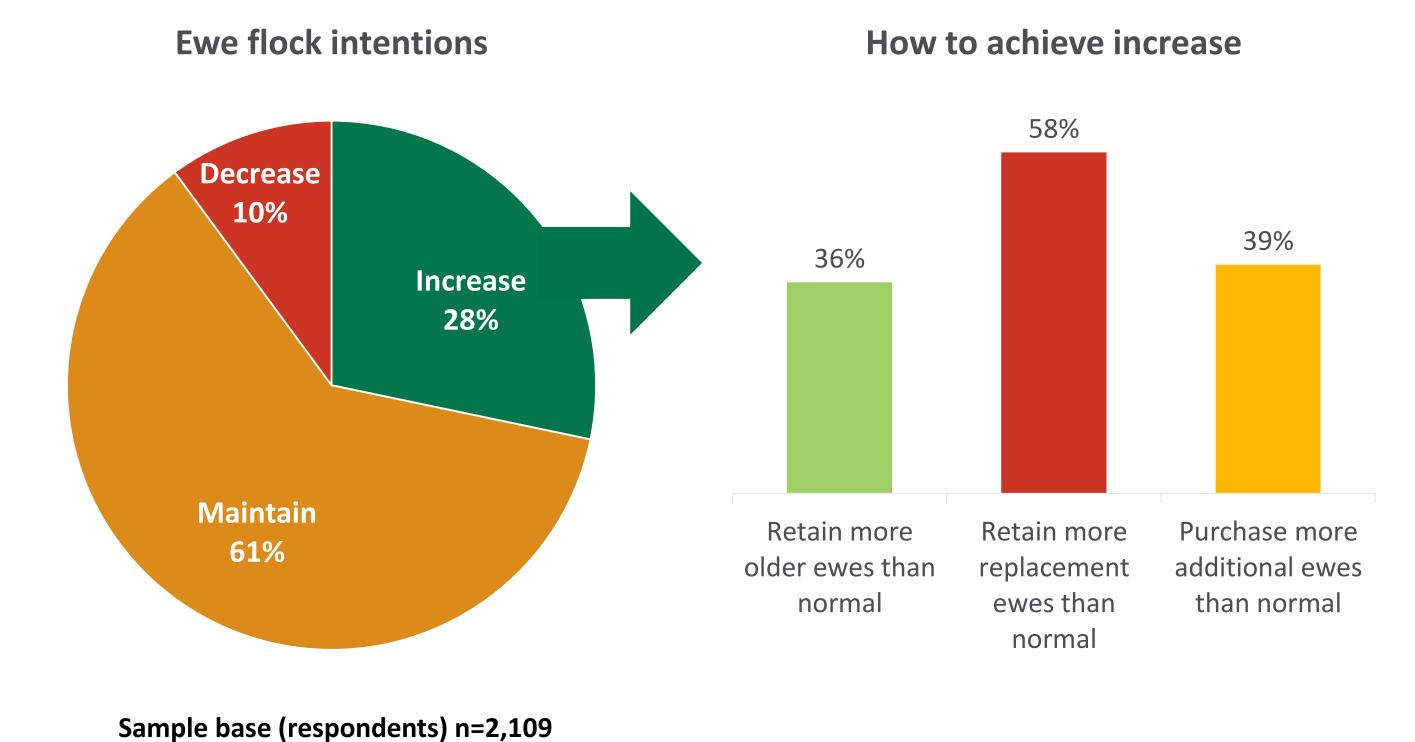
A total number of 6.3 million lambs are expected to be sold in the next four months (1 July 2019 to 31 October 2019), approximately 36% of the total number of lambs on hand (17.2 million). Of these: Merino, First Cross and Pure Meat breeds are expected to account for 31%, 28% and 21% of lamb sales respectively.

These results are consistent with producer ewe flock intentions for the next 12 months and method of achievement, with 28% looking to increase their ewe flocks and of these 58% are expected to retain more replacement ewes than normal.



Sample base (properties) n=3,381





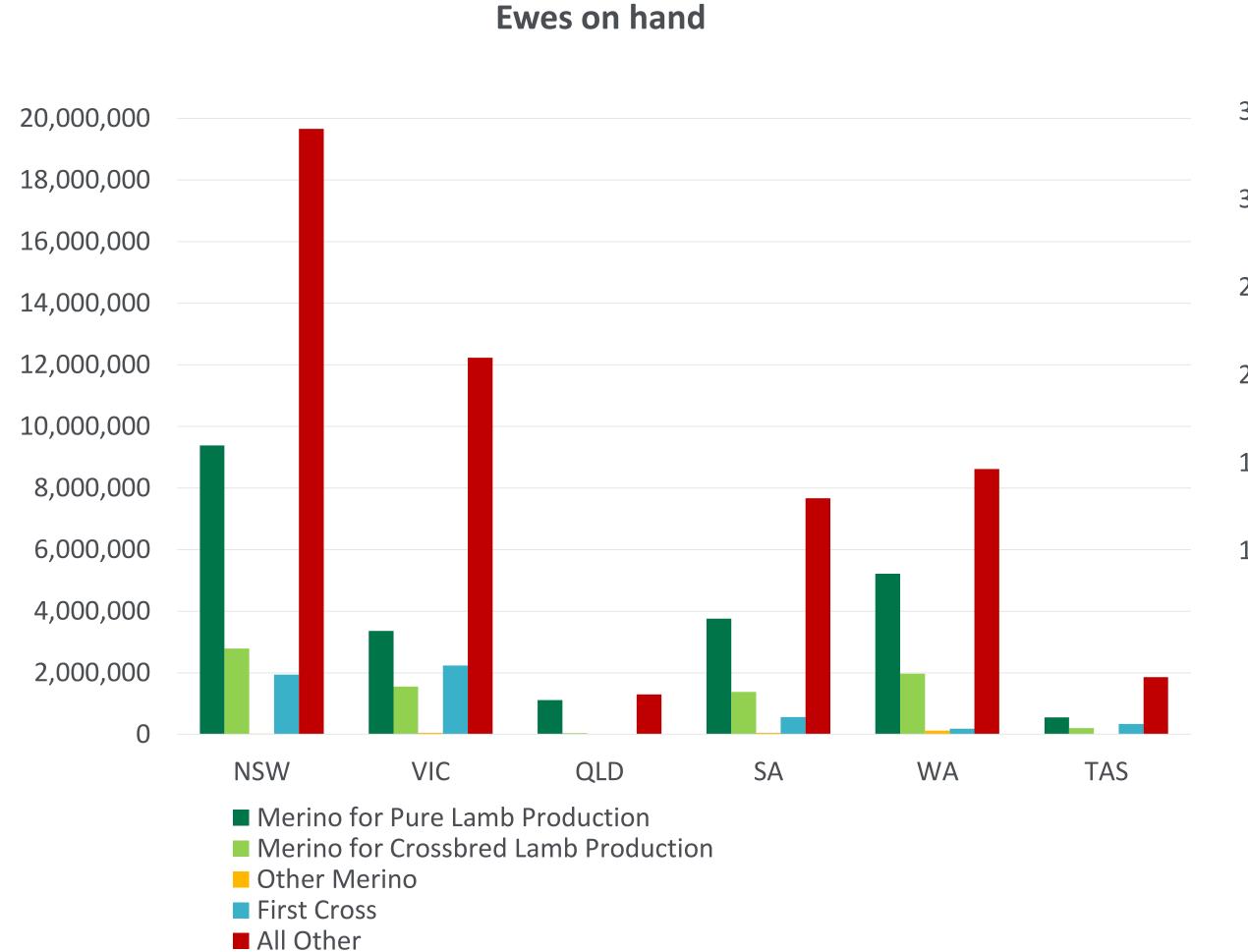


## Results by State

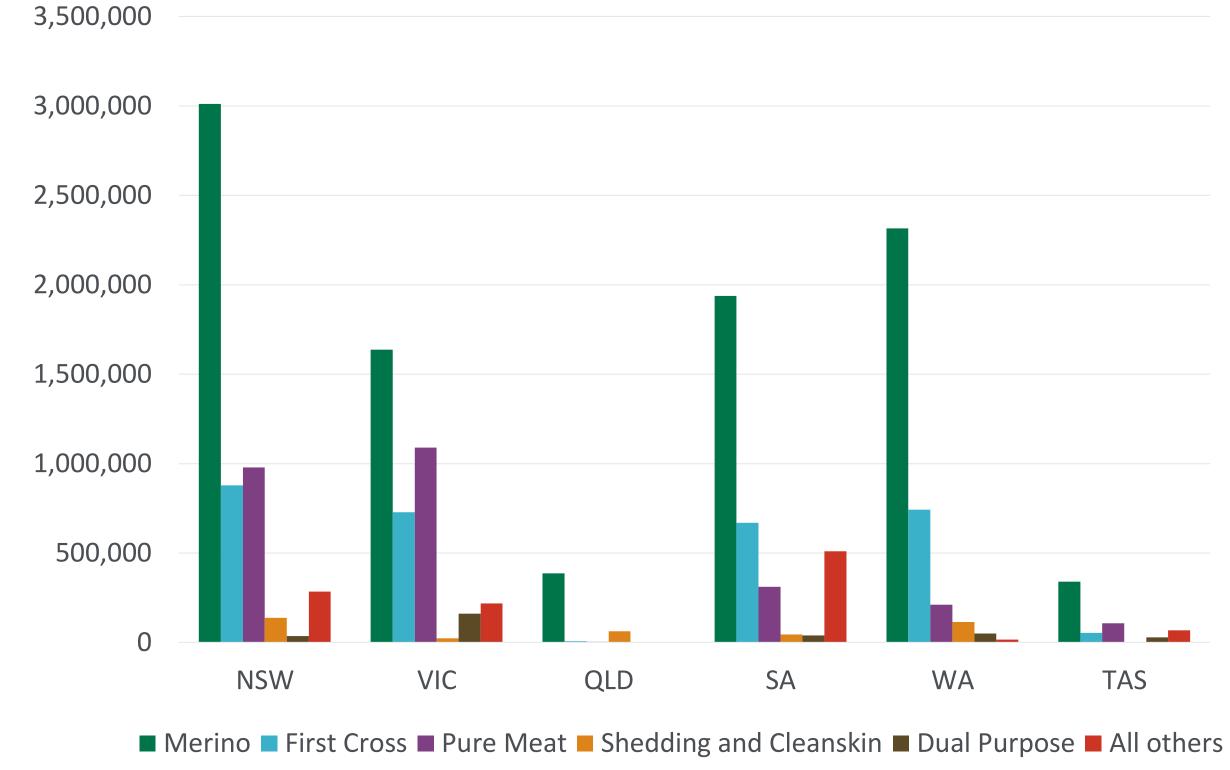


## Ewes on hand and Lambs on hand - State





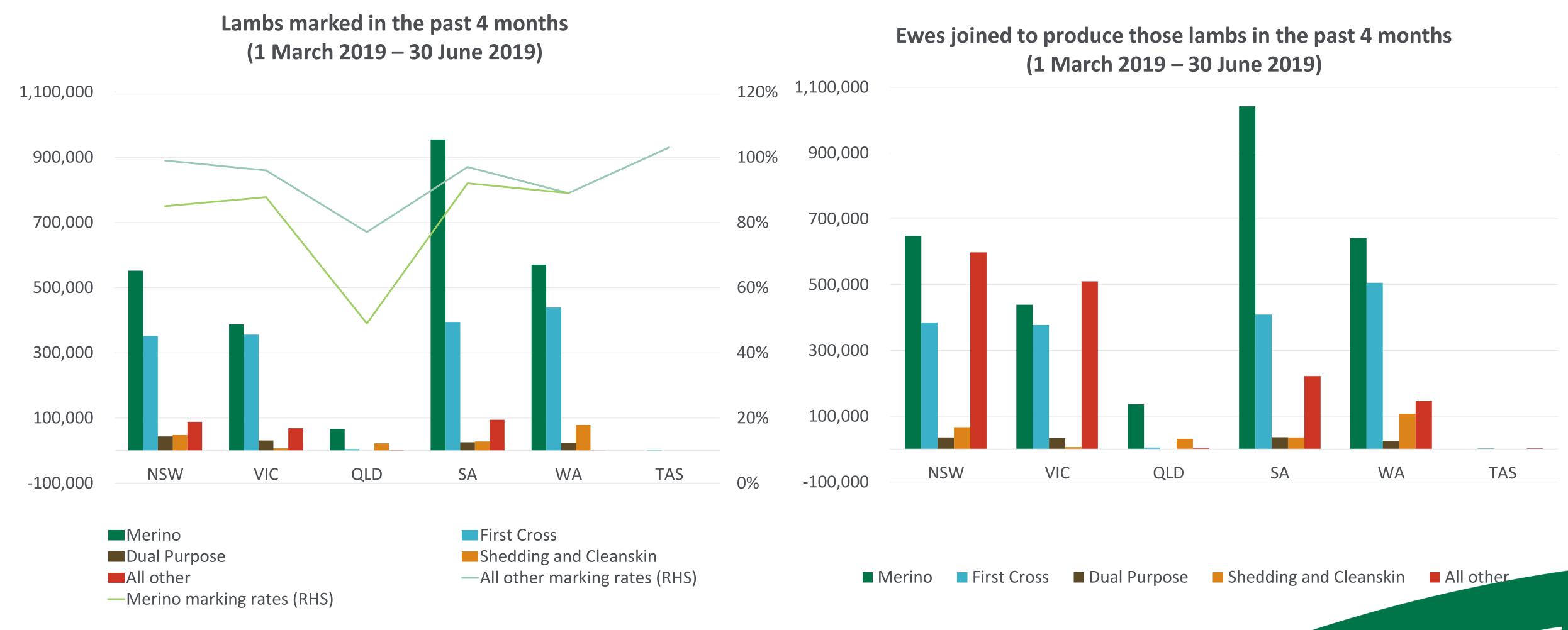
### Lambs on hand





# Lambs marked in the past four months and Ewes joined to produce those lambs - State

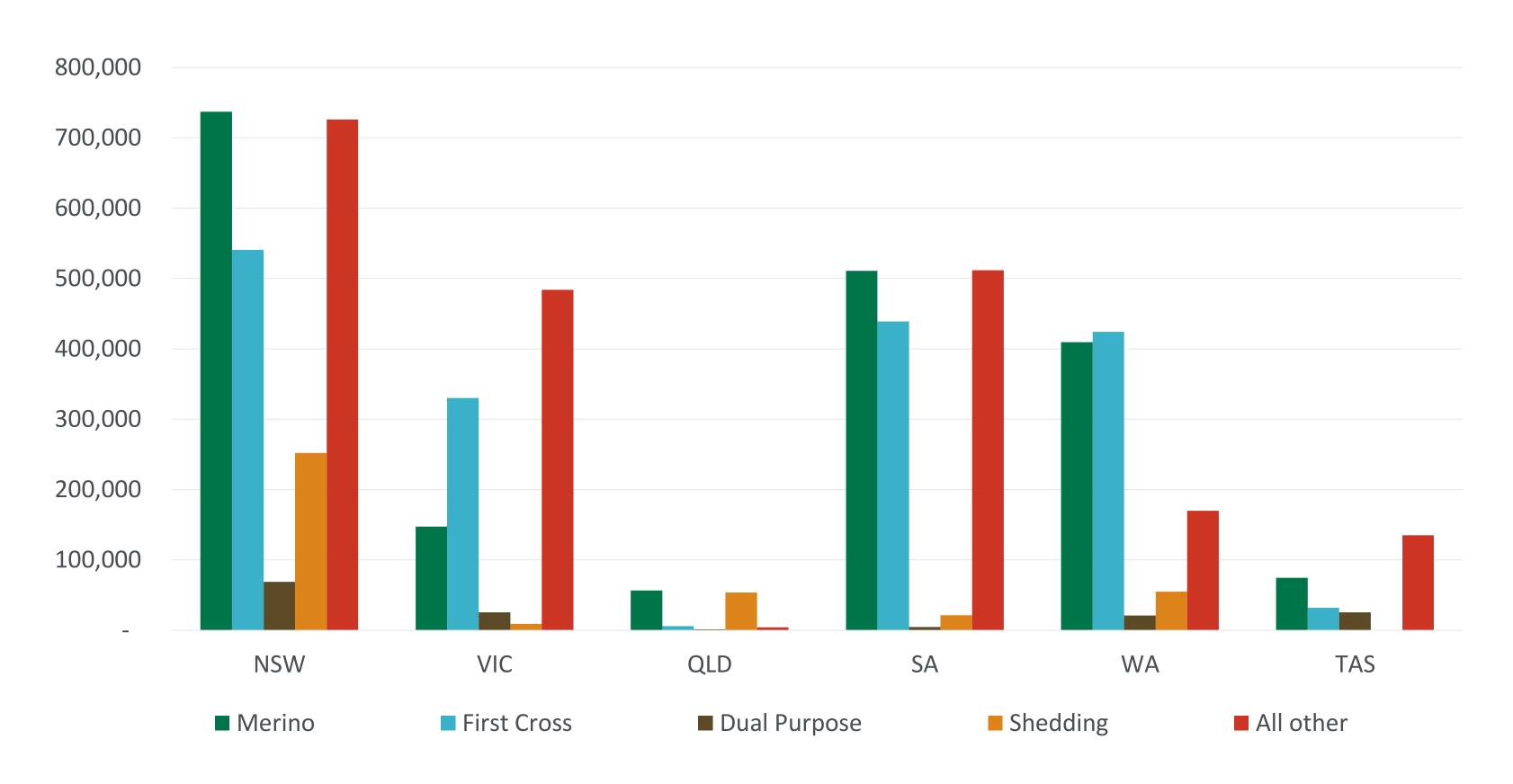




## Expected lamb sales in the next four months – by State



### Expected lamb sales in the next 4 months (1 July 2019 – 31 October 2019)







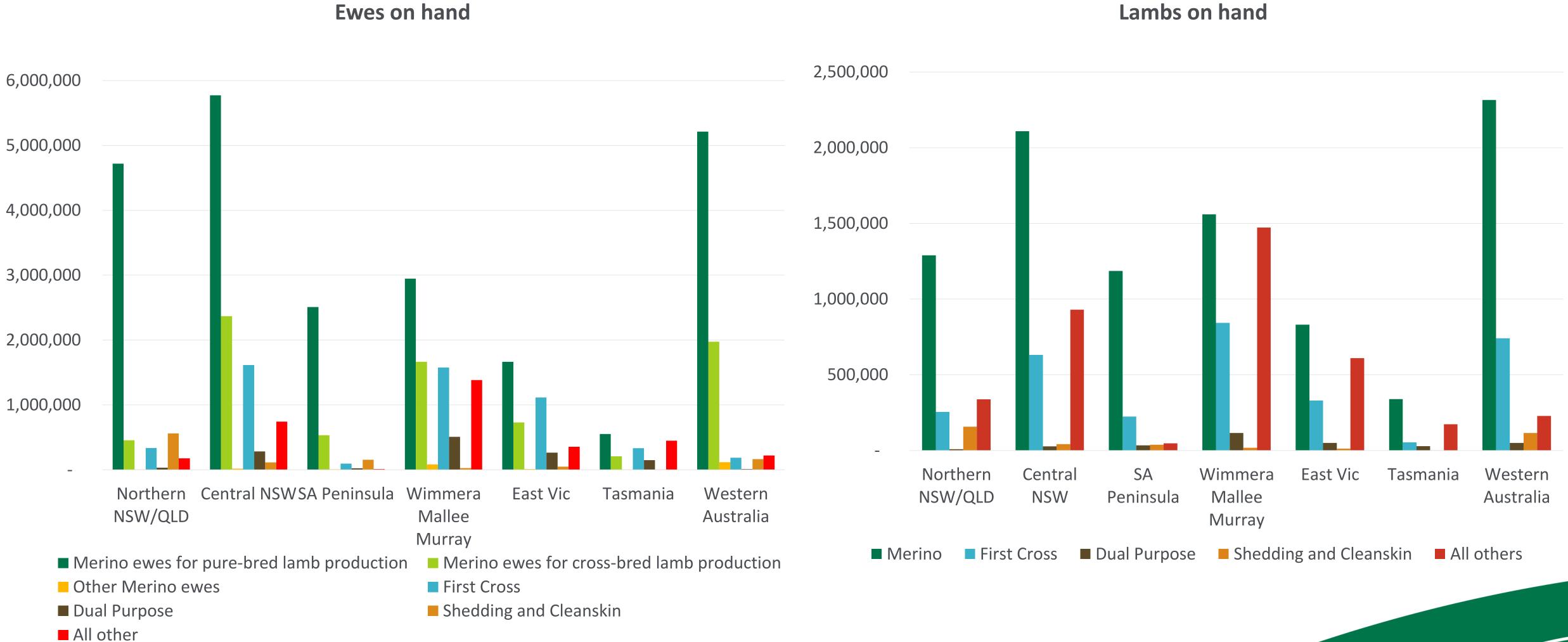
## Results by MLA Reporting Region



## Ewes on hand and lambs on hand 30 June 2019

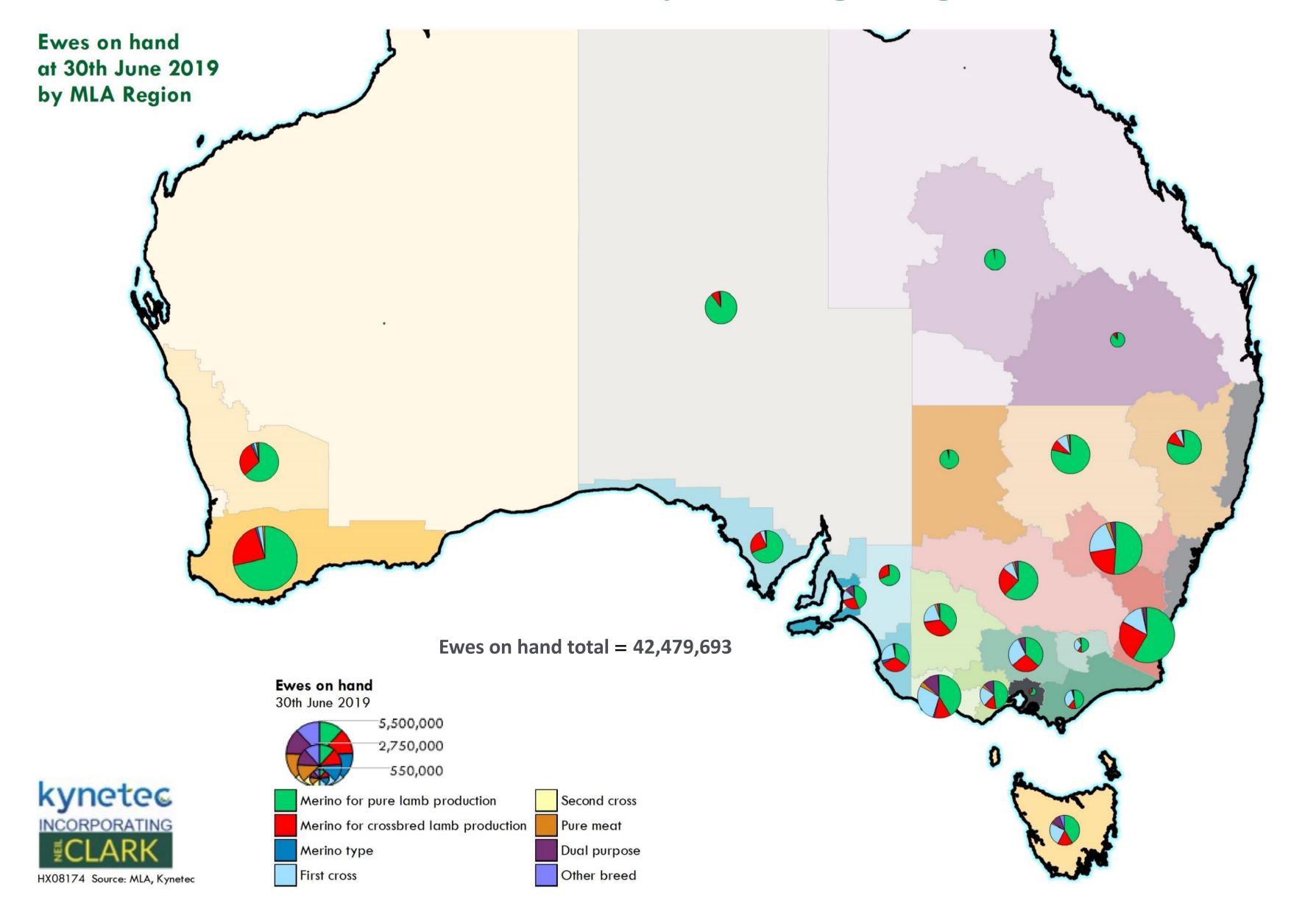
## - by MLA reporting regions





## Ewes on hand – MLA reporting regions





The breeding ewe population was largest in WA South (5.4 m), South Eastern NSW (4.2 m) and Central West region NSW (4.1 m).

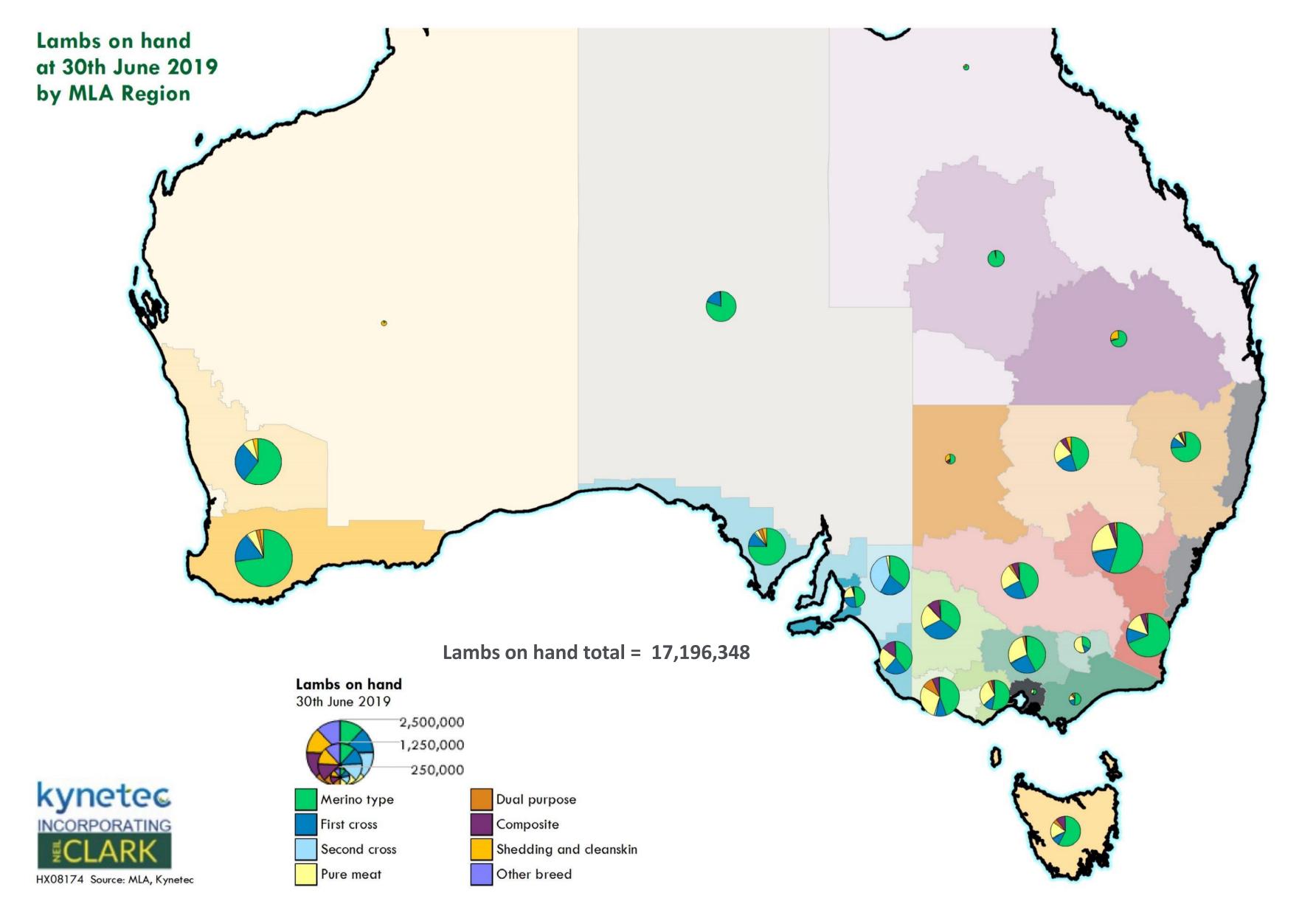
Central Queensland (100%), Murray Land (99%) and WA South (94%) had the highest percentage of merinos in their flock followed by Eyre Yorke and North Extra (93%) and Eyre Yorke and North (90%) (Merino for Pure lamb, Merino for cross lamb production and Merino other).

Conversely, when considering regions with over 40,000 non merinos, the largest percentage of non-merino ewes was in Tasmania and Western District VIC (both 55%), Barwon and Central Highlands (47%) and South East SA (46%).



## Lambs on hand – by MLA reporting regions





In line with a larger ewe flock population, the number of lambs on hand at 30 June was greatest in WA South at 2 million head. This was followed by the Central West NSW region, recording around 1.6 million head.

Although Merinos tended to be the most dominant breed of lamb across almost all regions, a large proportion of flocks in some regions were made up of first cross and pure meat breeds. In the Wimmera and Mallee, First cross lambs comprised of 31% of the lamb flock while Pure meat in Loddon and Goulburn and South East comprised of 29% and 24% of the total lamb flocks, respectively.

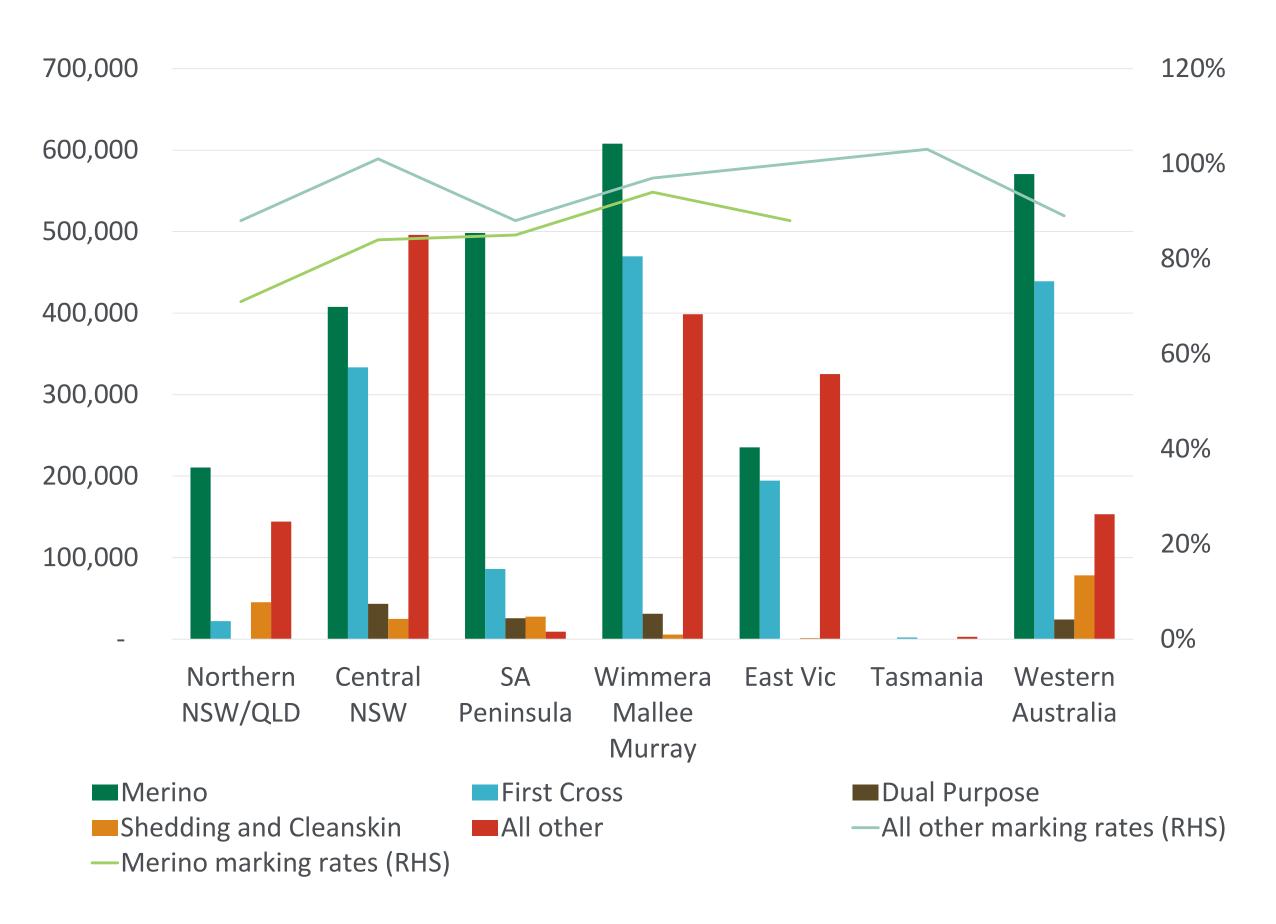
NSW had the largest Merino lamb flock at around 3 million head, accounting for 57% of the 5.3 m total NSW lamb flock. In WA however, Merinos accounted for 67% of the total lamb flock (2.3 m of 3.4 m head).



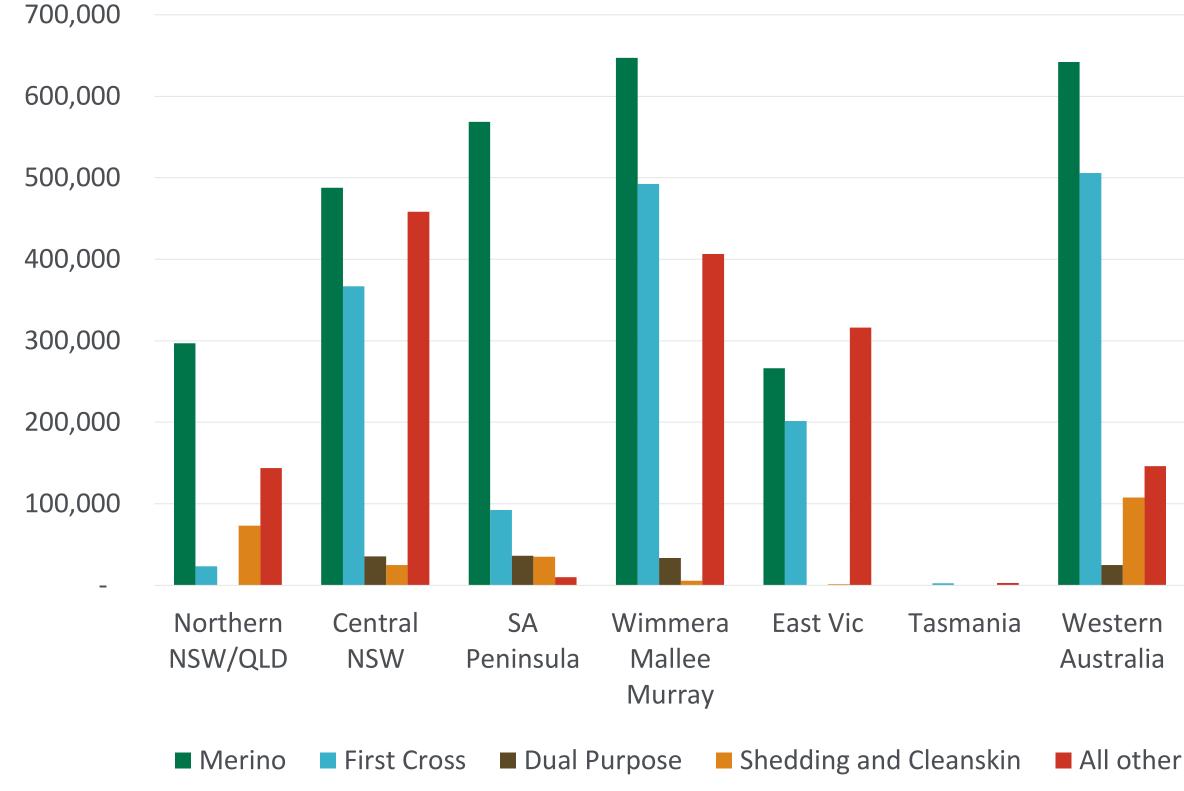
# Lambs marked in the past 4 months and Ewes joined to produce those lambs – by MLA reporting regions



### Lambs marked in the past 4 months 1 March – 30 June 2019



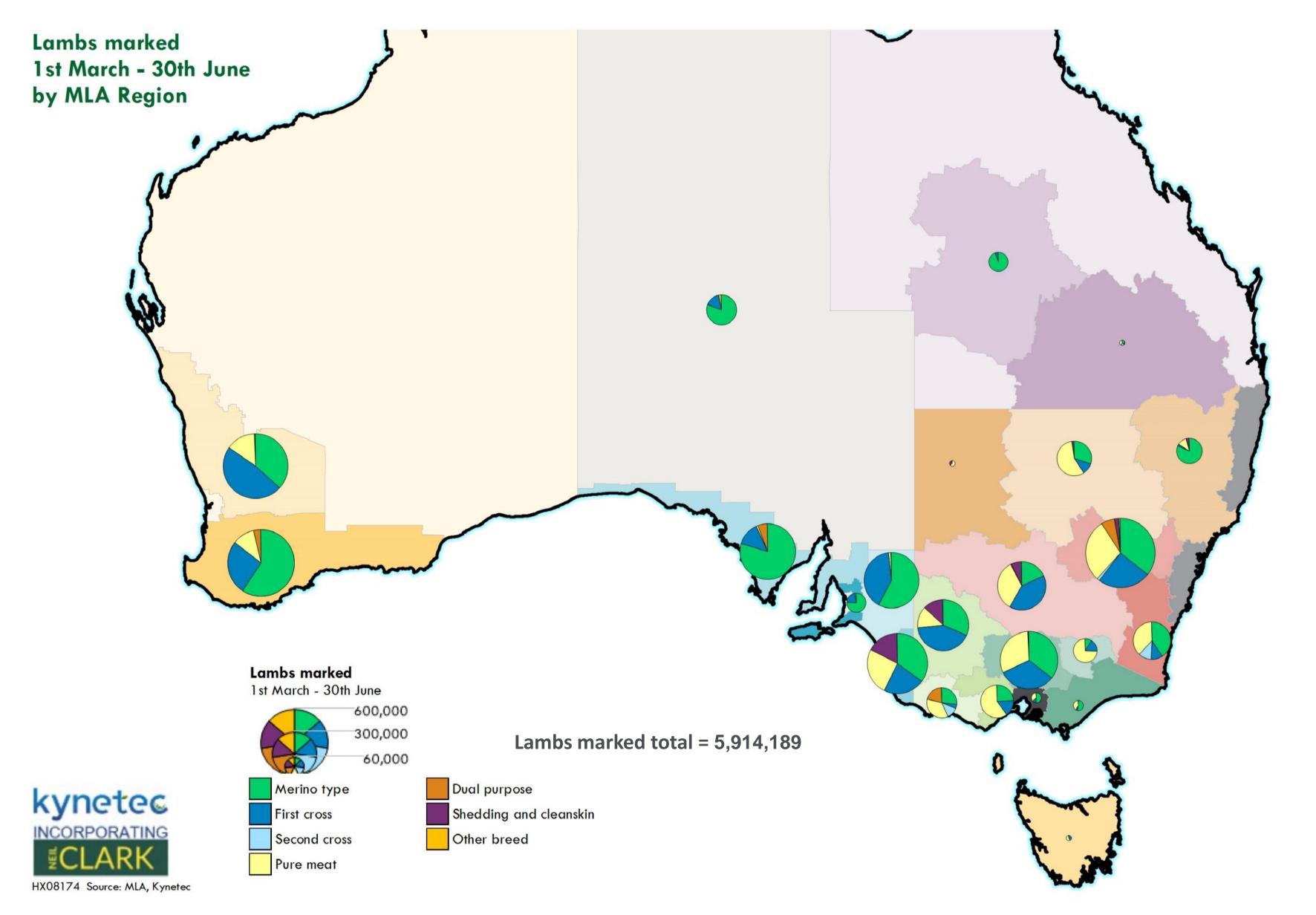
### **Ewes joined to produce those lambs**





## Lambs marked in the past four months





Around 5.9 million lambs were marked over the past four months.

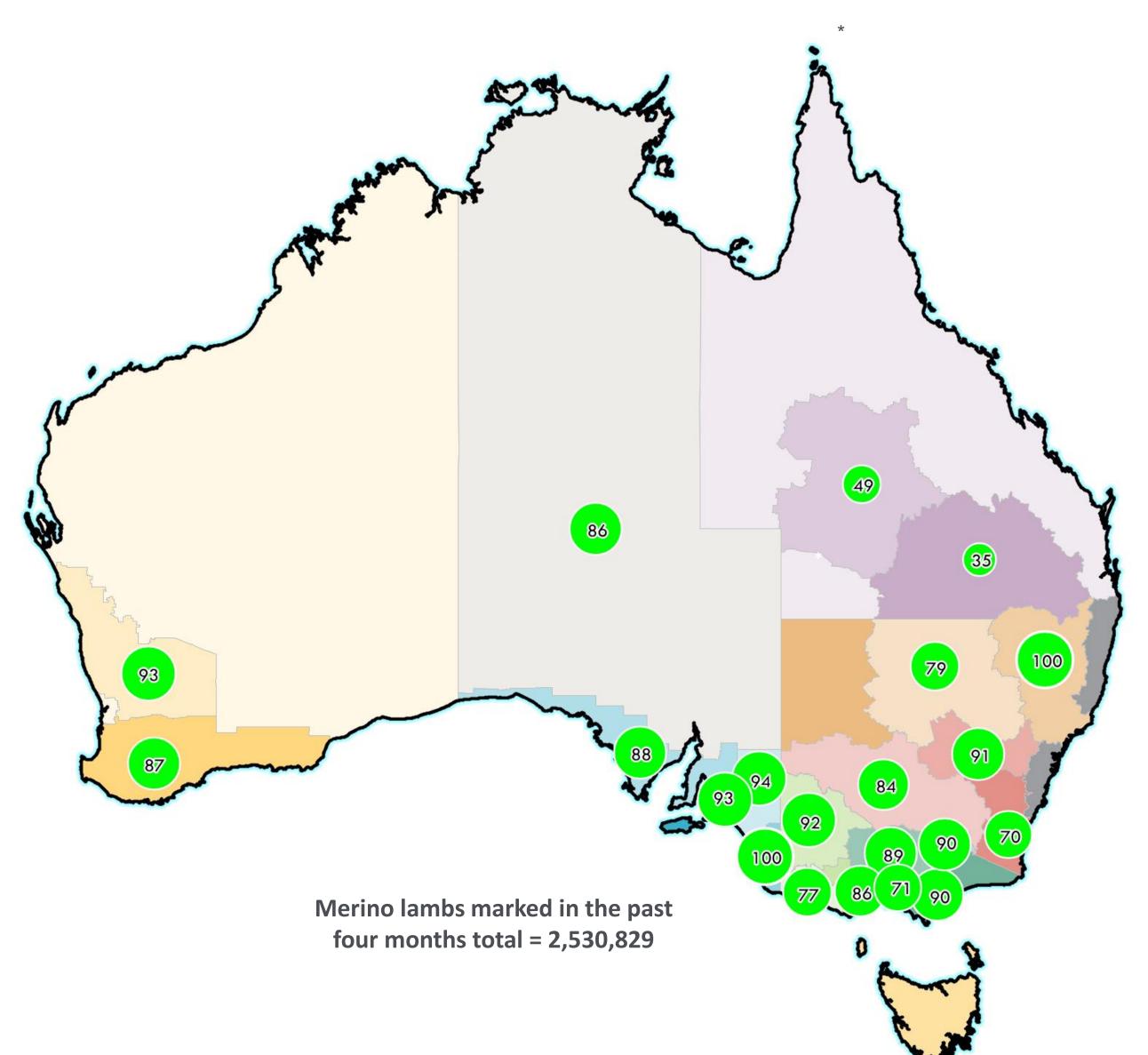
Central West, Central Midlands and WA South accounted for a large number of new lambs, with markings of 0.7m, 0.6m and 0.6m head respectively.



## Merino lamb marking rates – by MLA reporting regions



Lambs marked percentage of merinos by MLA Region



The highest Merino marking rates were recorded in Hunter and Northern NSW (100%) and South East SA (100%). Conversely, the lowest marking rates were recorded in Southern QLD at 35% and Central Queensland at 49%.

Nationally the Merino marking rate was 77% and on a state basis, Queensland and NSW had the lowest marking rate at 49% and 85% respectively, while SA and WA recorded the highest Merino marking rates of 92% and 89% respectively.

**Note:** These marking rates are for the period between 1 March to 30 June 2019 and are not an accurate representation of annual marking rates.

Sample base (properties) n = 1,834



Merino lambs

Percentage marked

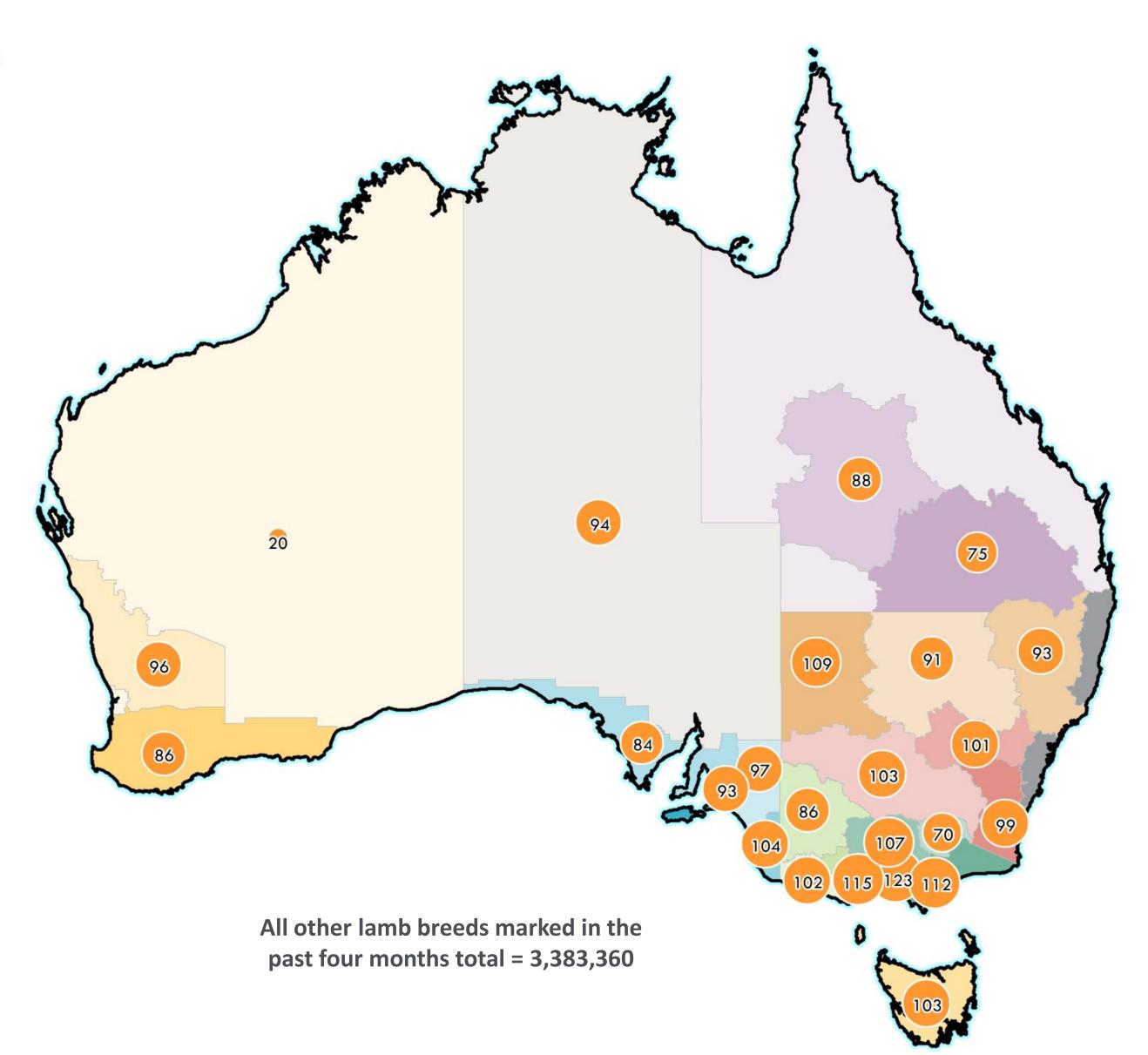
10



## All other breed lamb marking rates-by MLA reporting regions



Lambs marked percentage of non merino by MLA Region



South Eastern Extra, Barwon and Central Highlands and Gippsland recorded the highest marking rates for non-Merino lambs at 123%, 115% and 112% respectively.

On a state basis, Tasmania and NSW recorded the highest non-merino marking rates at 103% and 99% respectively, above QLD at 77% and WA at 89%.

**Note:** These marking rates are for the period between 1 March and 30 June 2019. As this is outside of the peak lambing period in some regions this year, these are not representative of the average annual marking rates.



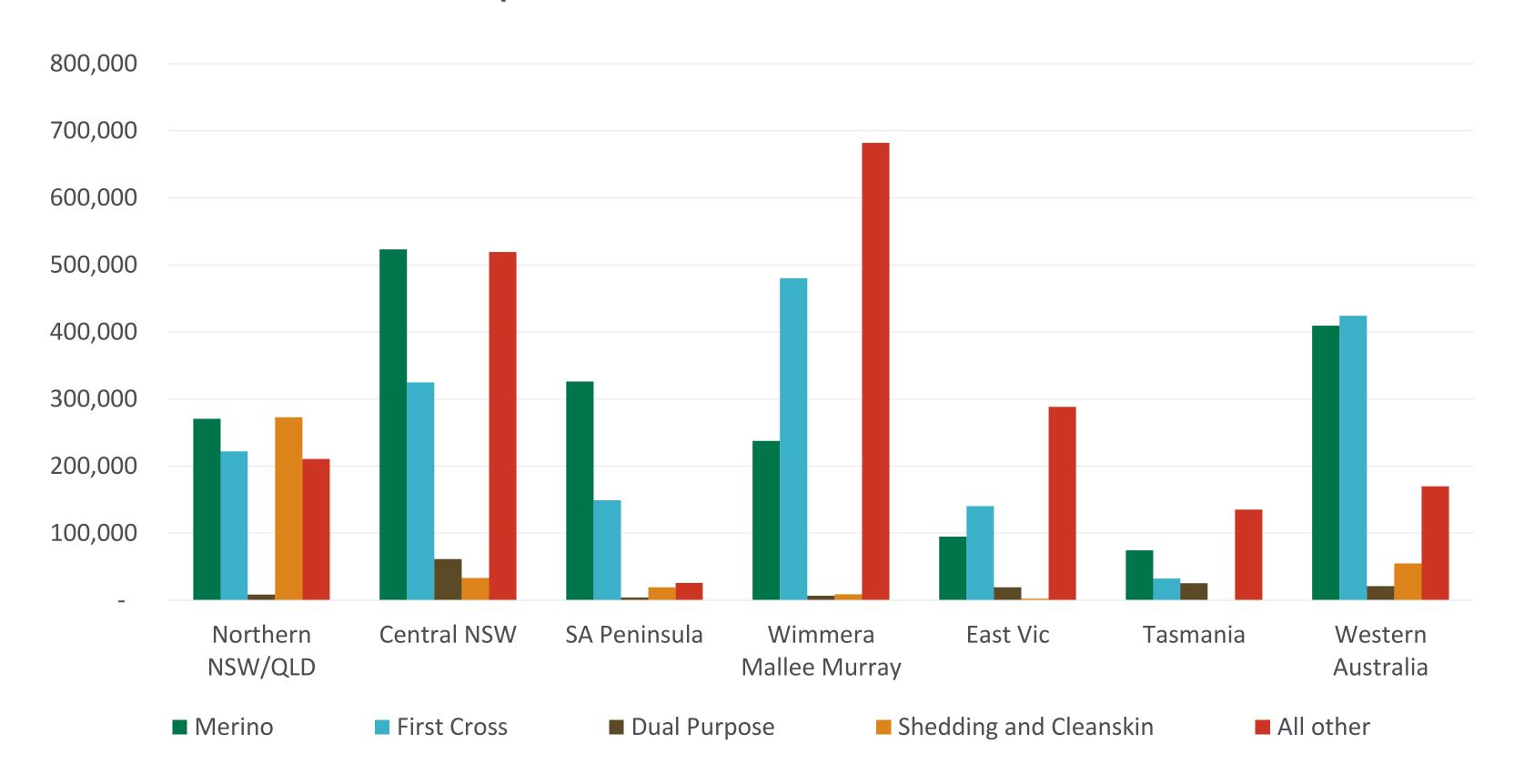
Non merino lambs Percentage marked



# Expected lamb sales in next four months (1 July - 31 October 2019) – by MLA reporting regions



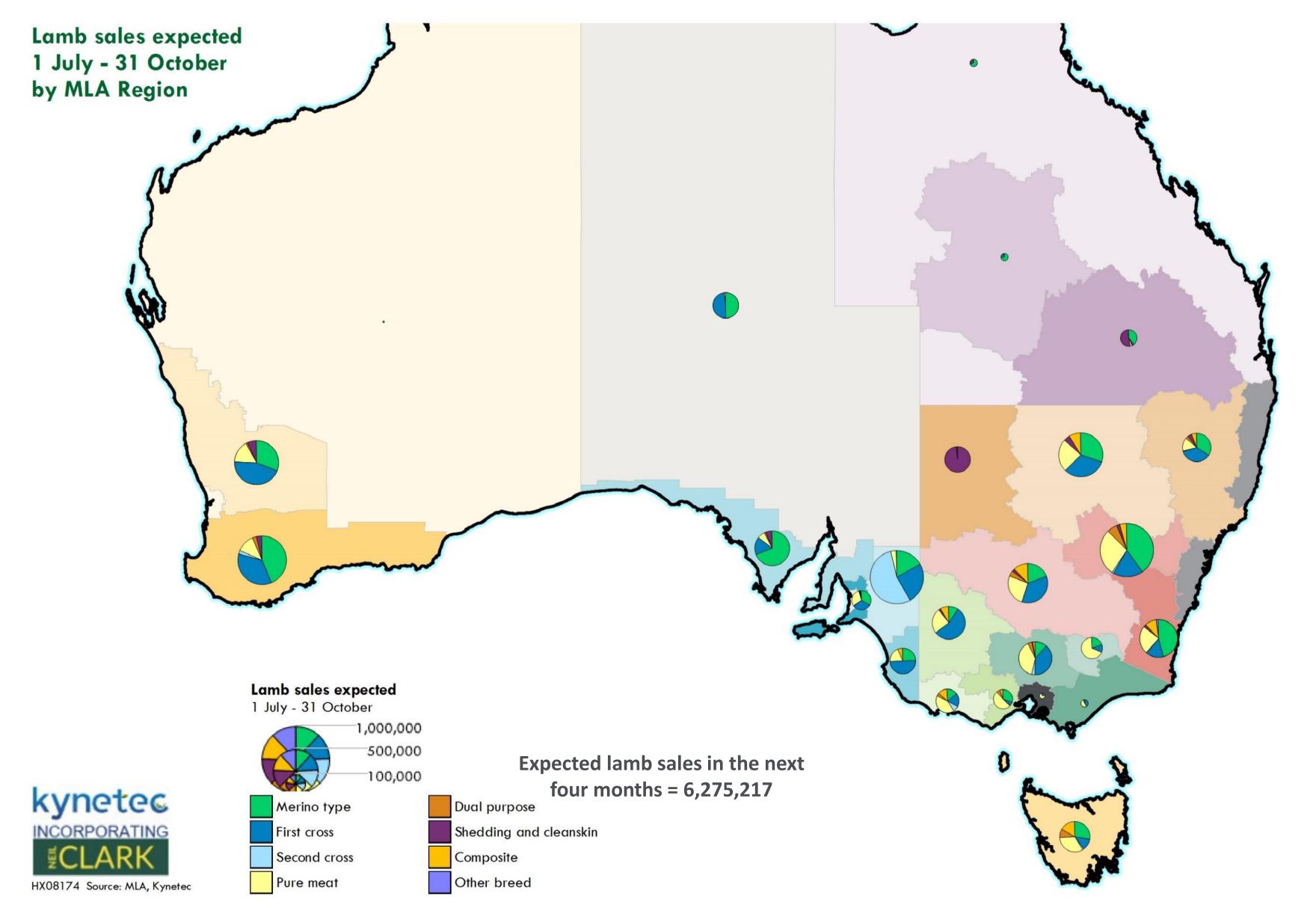
### **Expected lamb sales in the next 4 months**





## Expected lamb sales in next four months





Over the next four months (1 July 2019 to 31st October 2019), most lamb sales are expected to occur in Murray Lands (0.69m), Central West (0.67m) and WA South (0.58m).

Merino's are expected to account for 31% of national lamb sales, with the proportion higher in QLD and WA (46% and 38% respectively). First cross, pure meat and other breeds will account for 69% of lamb sales, being highest in Victoria (85%) and Tasmania (72%).

NSW is expected to account for 37% of total lamb sales over the next four months, with around 2.3 million lambs expected to be on offer. This is followed by South Australia and WA at 24% and 17% of total lamb sales, respectively.



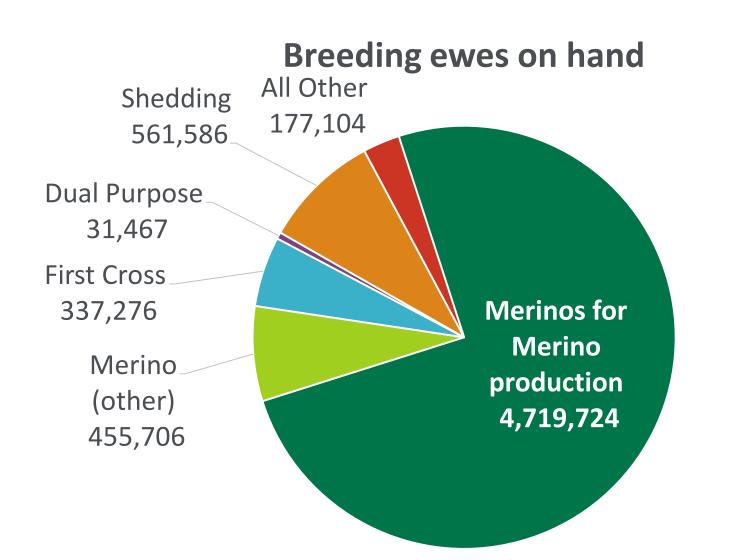


## Regional Snapshots

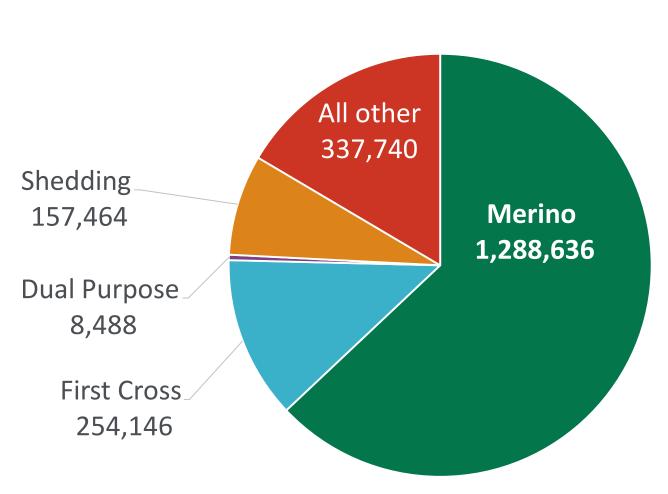


## Northern NSW/QLD

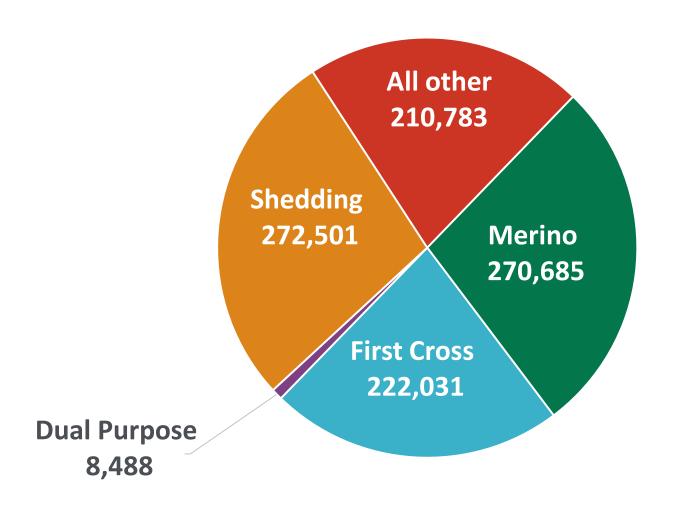




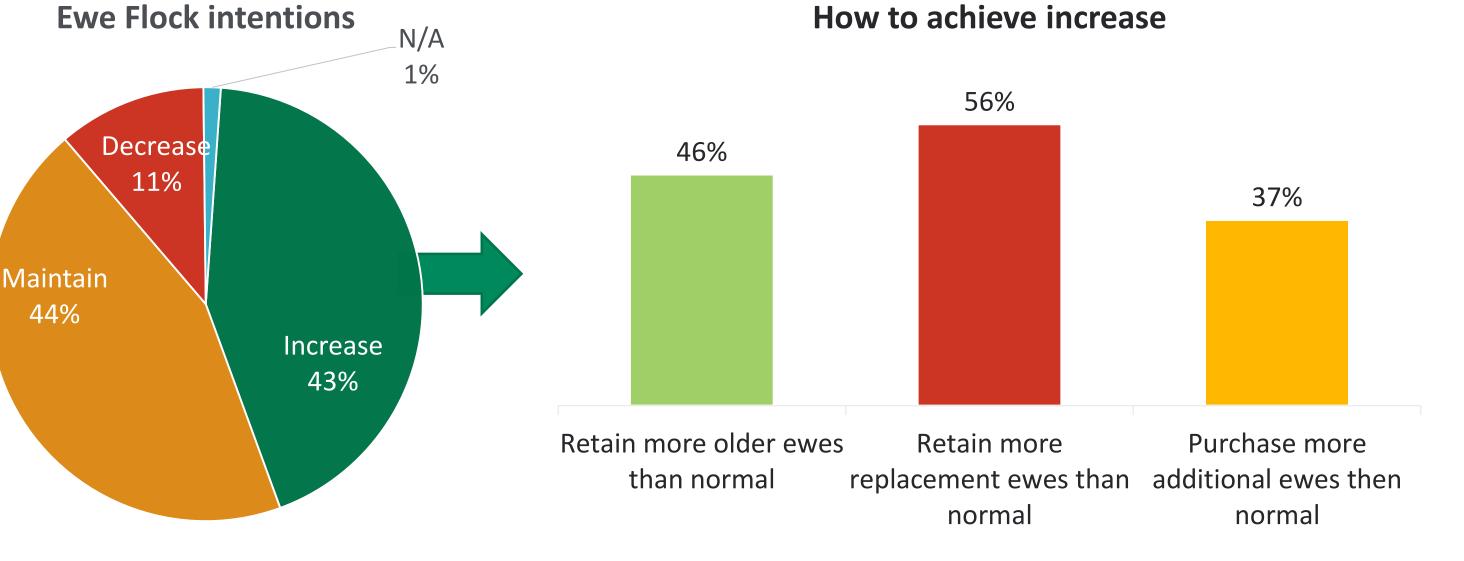












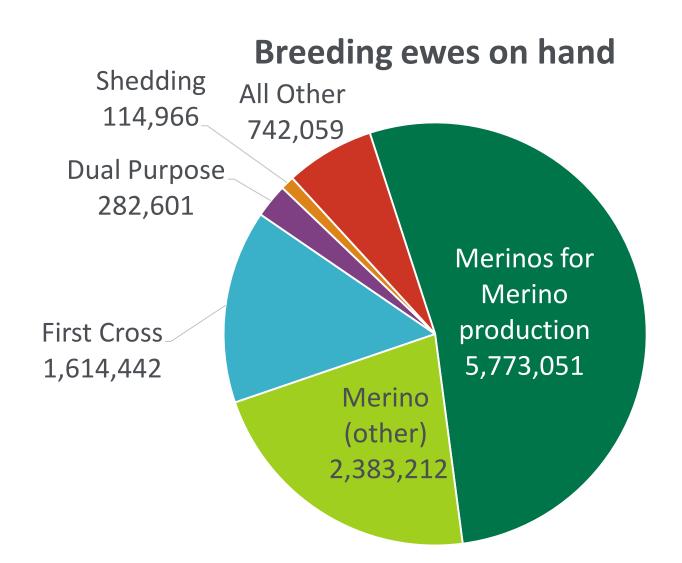
### **Totals**

Breeding ewes on hand	6,282,862
Lambs on hand	2,046,475
Expected lamb sales in the next 4 months	984,488
Lambs marked in the past 4 months (1 Mar – 30 Jun)	422,304
Number of ewes joined to produce marked lambs	536,621

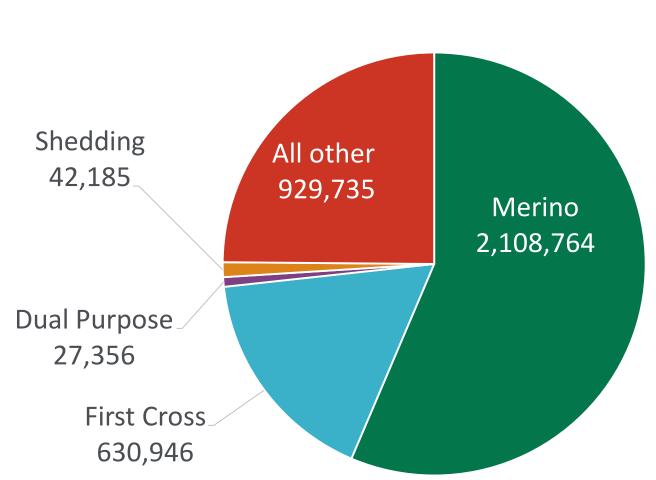


## Central NSW

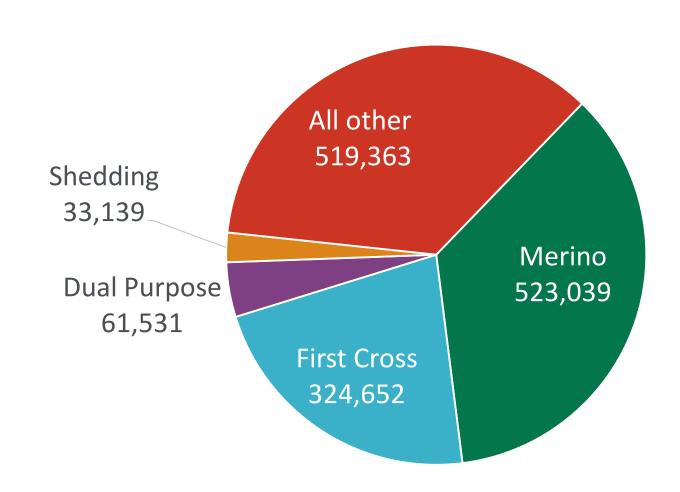




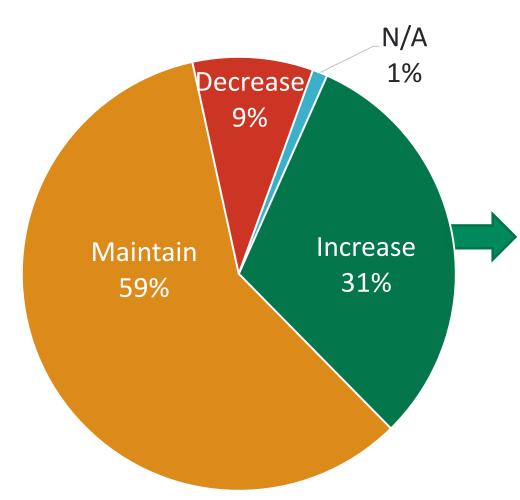
### Lambs on hand



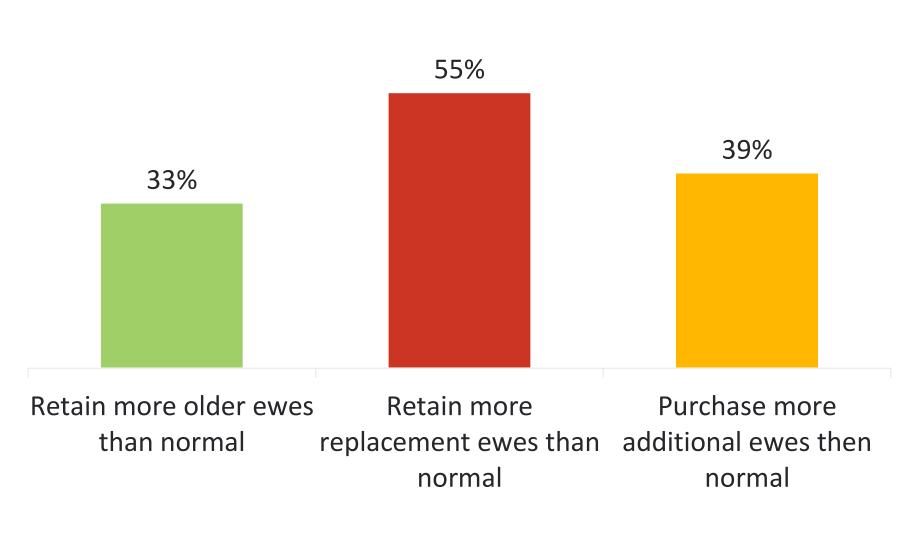
Lamb sales in next 4 months



### **Ewe Flock intentions**



How to achieve increase



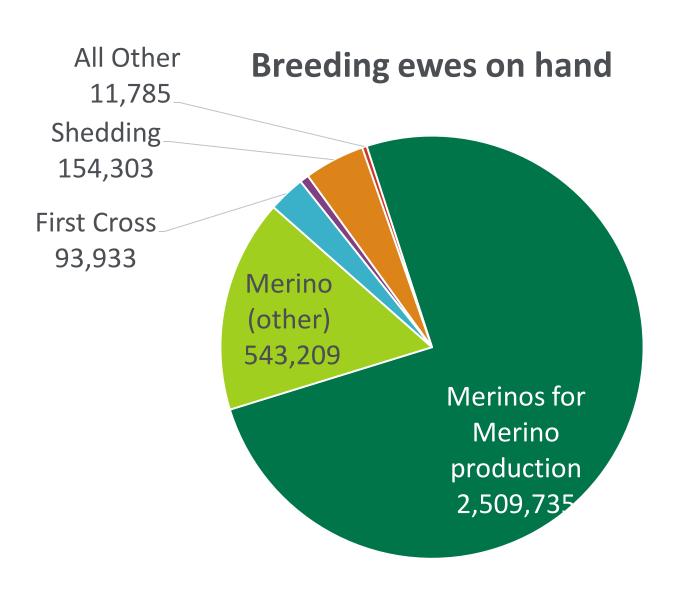
**Totals** 

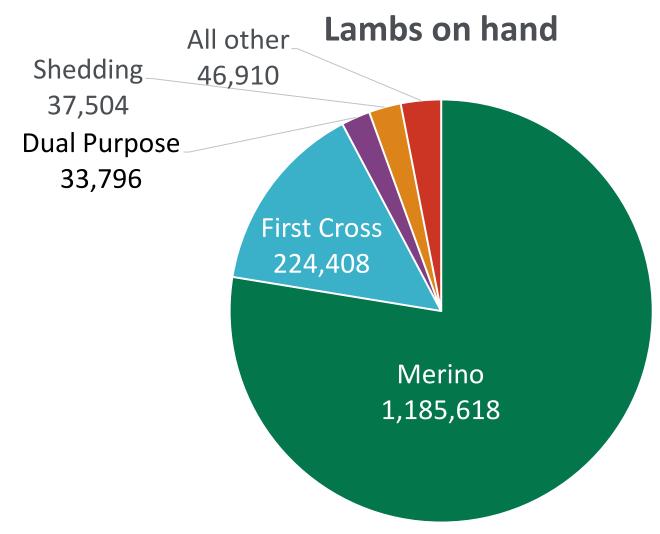
Breeding ewes on hand	10,910,331
Lambs on hand	3,738,986
Expected lamb sales in the next 4 months	1,461,724
Lambs marked in the past 4 months (1 Mar – 30 Jun)	1,305,237
Number of ewes joined to produce marked lambs	1,372,369

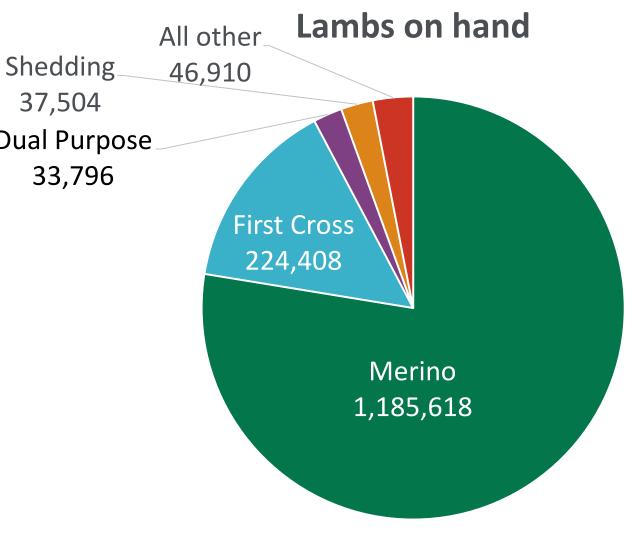


## SA Peninsula



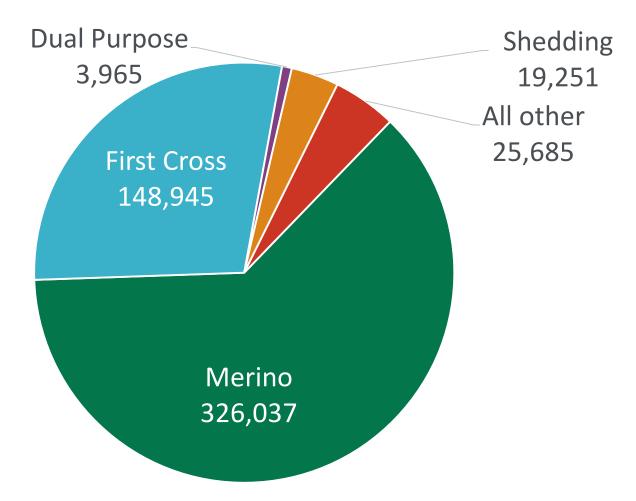






## **<u>₹</u>CLARK**

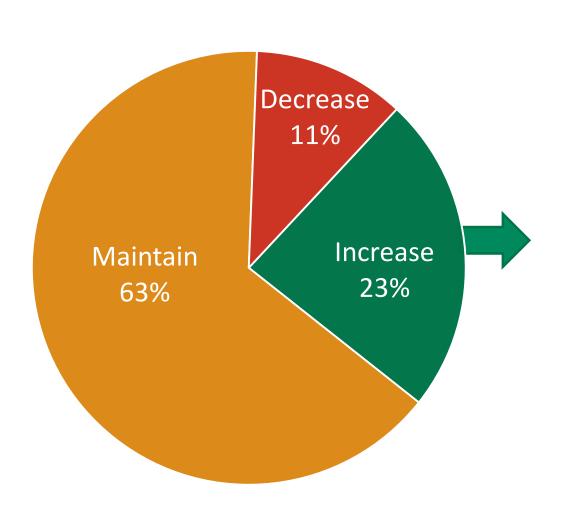
### Lamb sales in next 4 months

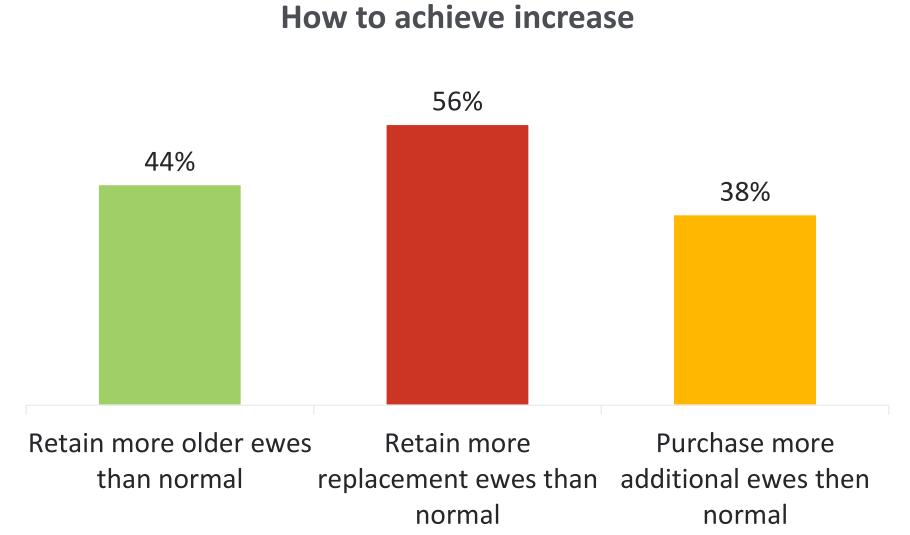


### **Totals**

Breeding ewes on hand	3,336,062
Lambs on hand	1,528,236
Expected lamb sales in the next 4 months	523,883
Lambs marked in the past 4 months (1 Mar – 30 Jun)	646,546
Number of ewes joined to produce marked lambs	741,930

### **Ewe Flock intentions**

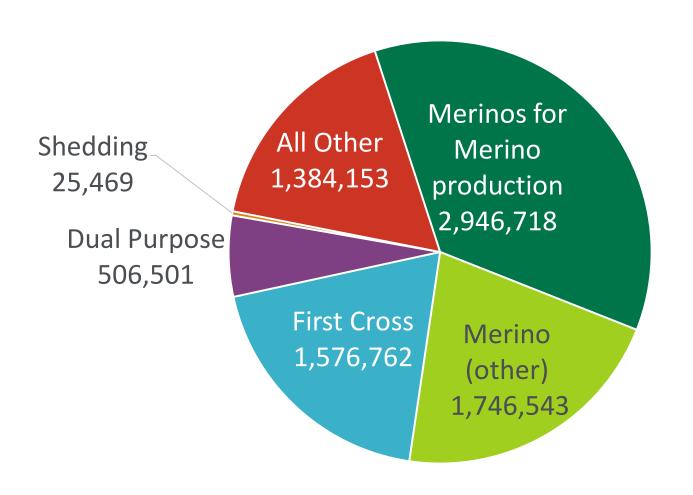




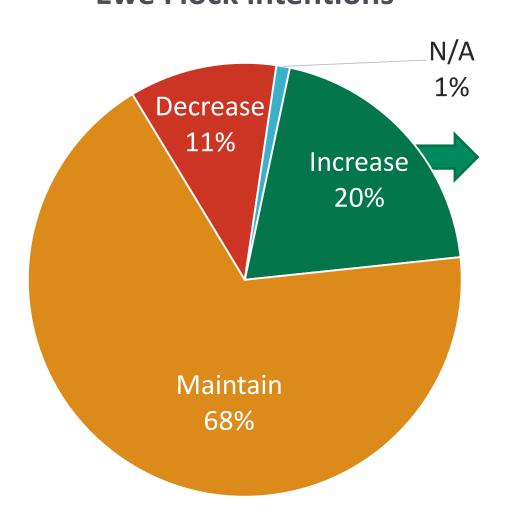
## Wimmera Mallee Murray



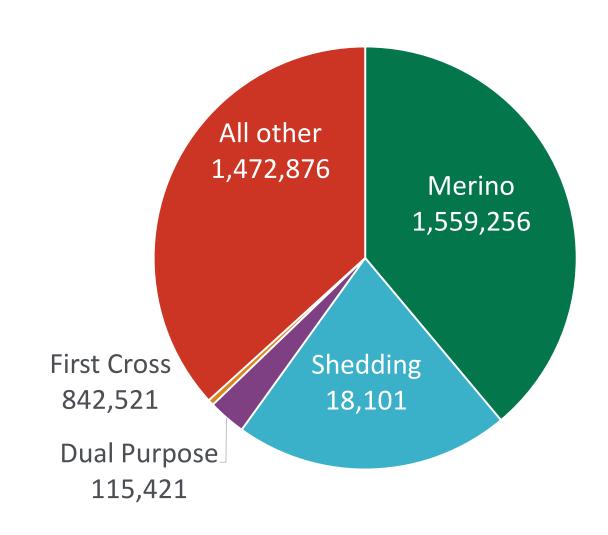
### **Breeding ewes on hand**



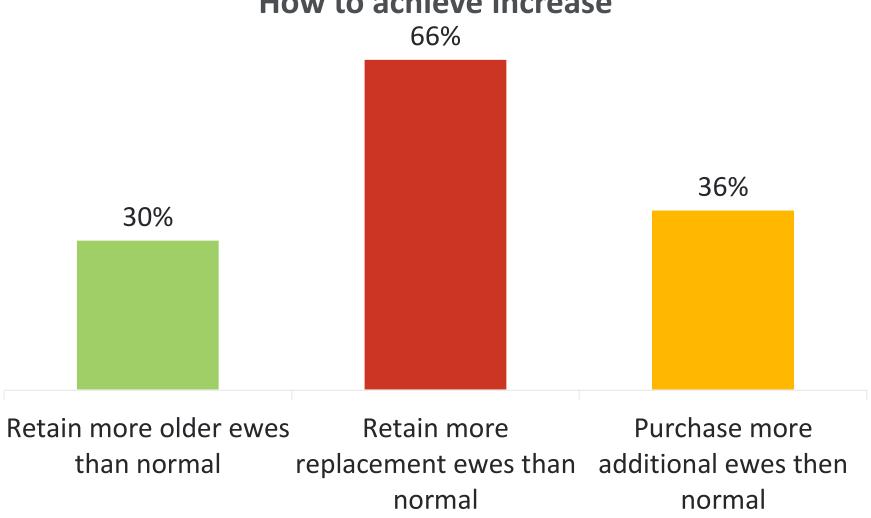
### **Ewe Flock intentions**



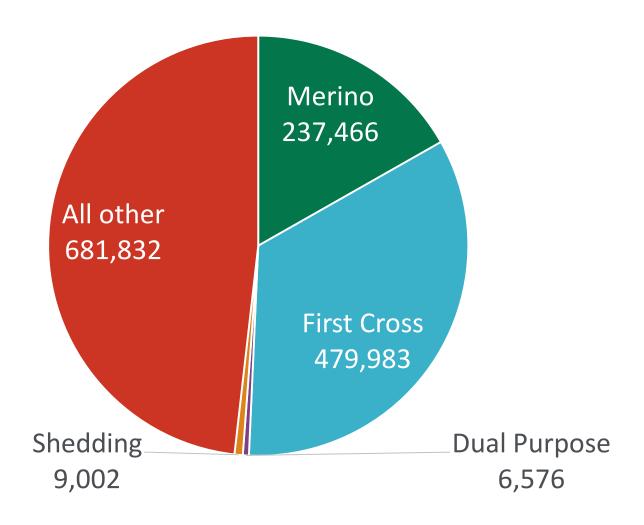
### Lambs on hand



### How to achieve increase



### Lamb sales in next 4 months



**Totals** 

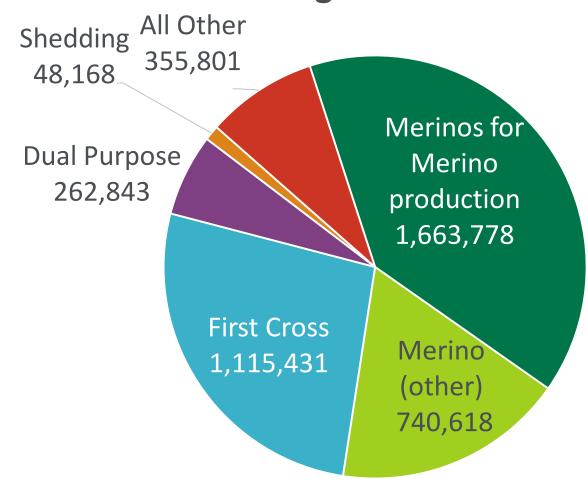
Breeding ewes on hand	8,186,146
Lambs on hand	4,008,175
Expected lamb sales in the next 4 months	1,414,859
Lambs marked in the past 4 months (1 Mar – 30 Jun)	1,513,012
Number of ewes joined to produce marked lambs	1,584,850



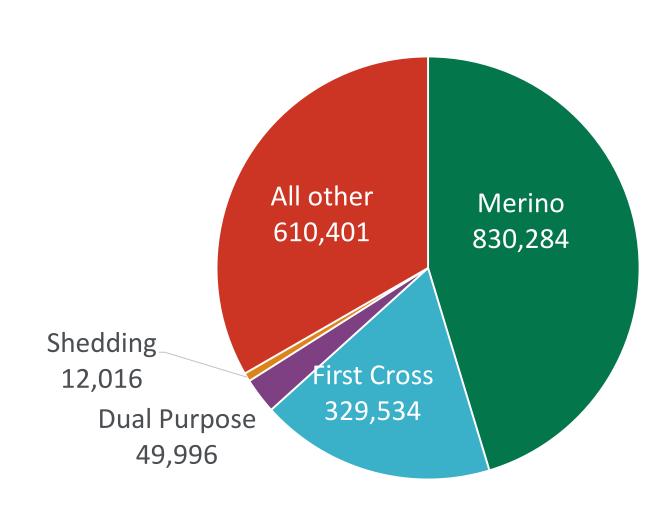
### East Victoria



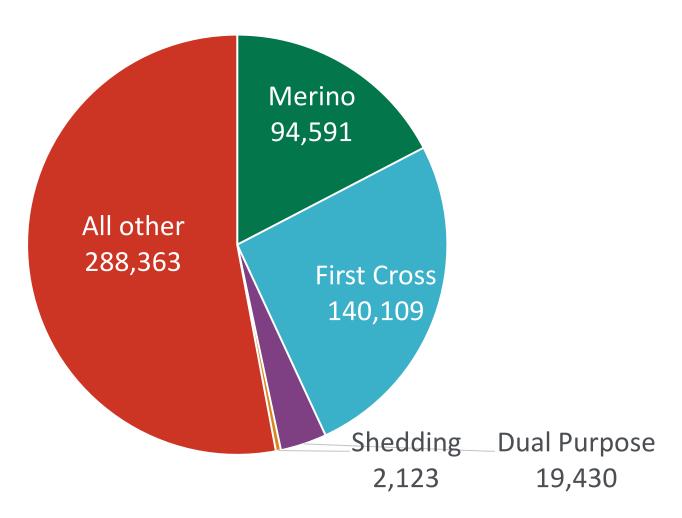




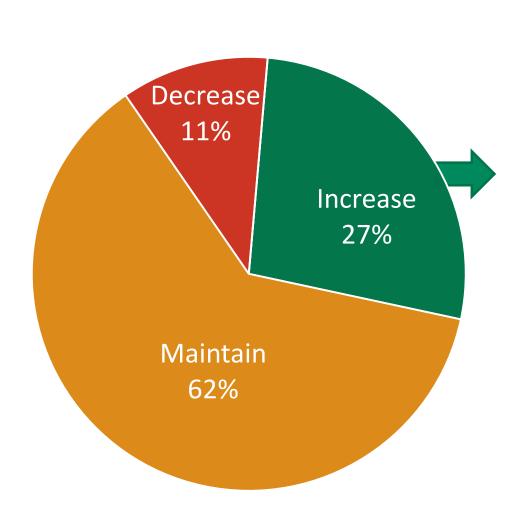
### Lambs on hand



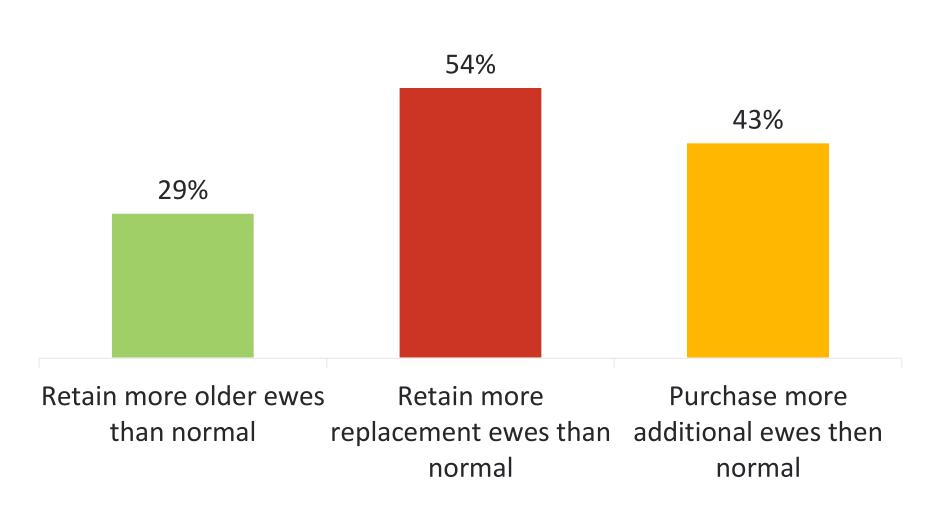
### Lamb sales in next 4 months



### **Ewe Flock intentions**



How to achieve increase



**Totals** 

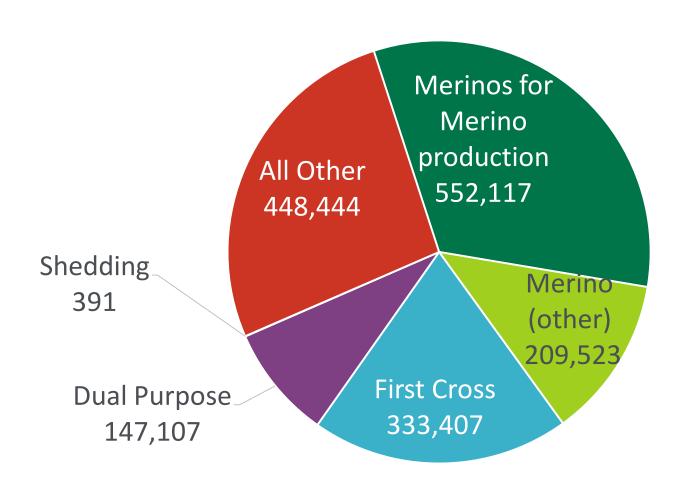
Breeding ewes on hand	4,186,639
Lambs on hand	1,832,231
Expected lamb sales in the next 4 months	544,616
Lambs marked in the past 4 months (1 Mar – 30 Jun)	756,498
Number of ewes joined to produce marked lambs	784,797



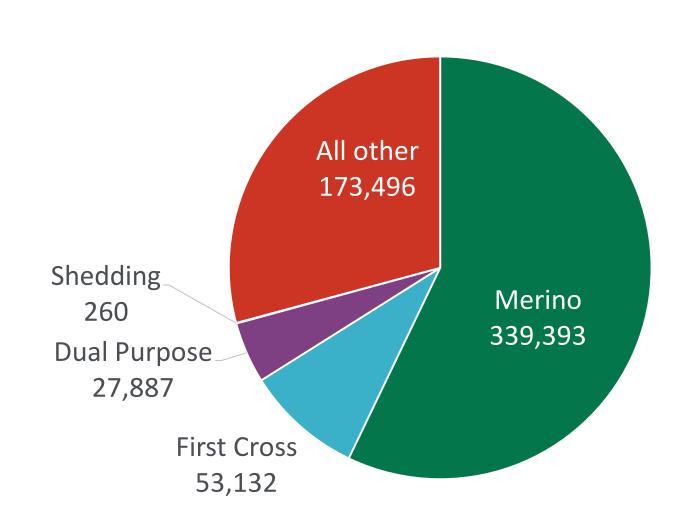
### Tasmania



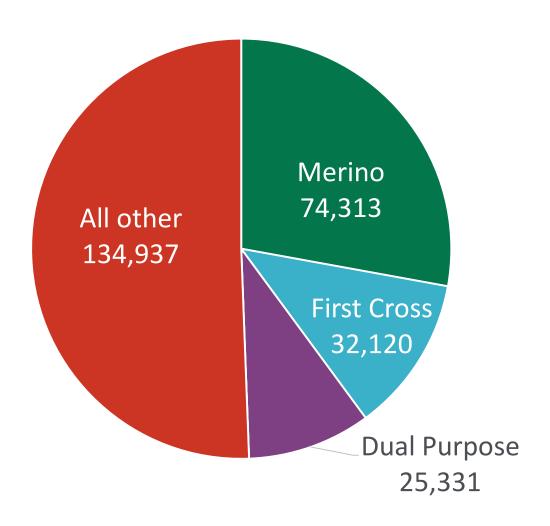
### **Breeding ewes on hand**



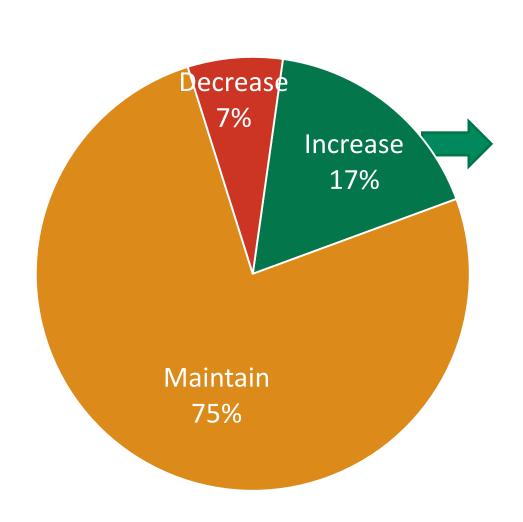
Lambs on hand



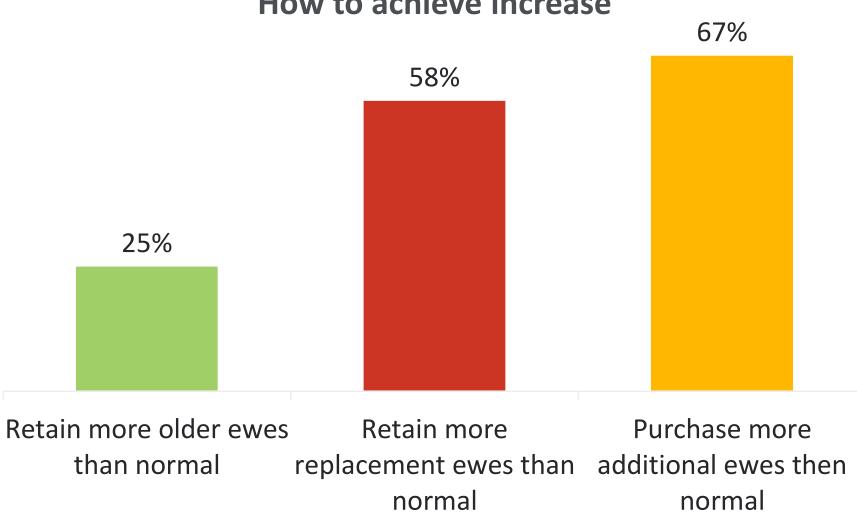
### Lamb sales in next 4 months



### **Ewe Flock intentions**







### **Totals**

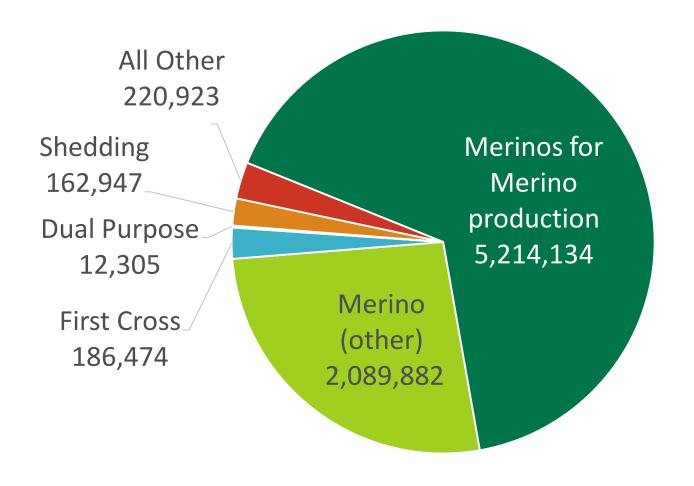
Breeding ewes on hand	1,690,989
Lambs on hand	594,168
Expected lamb sales in the next 4 months	266,701
Lambs marked in the past 4 months (1 Mar – 30 Jun)	5,031
Number of ewes joined to produce marked lambs	4,865



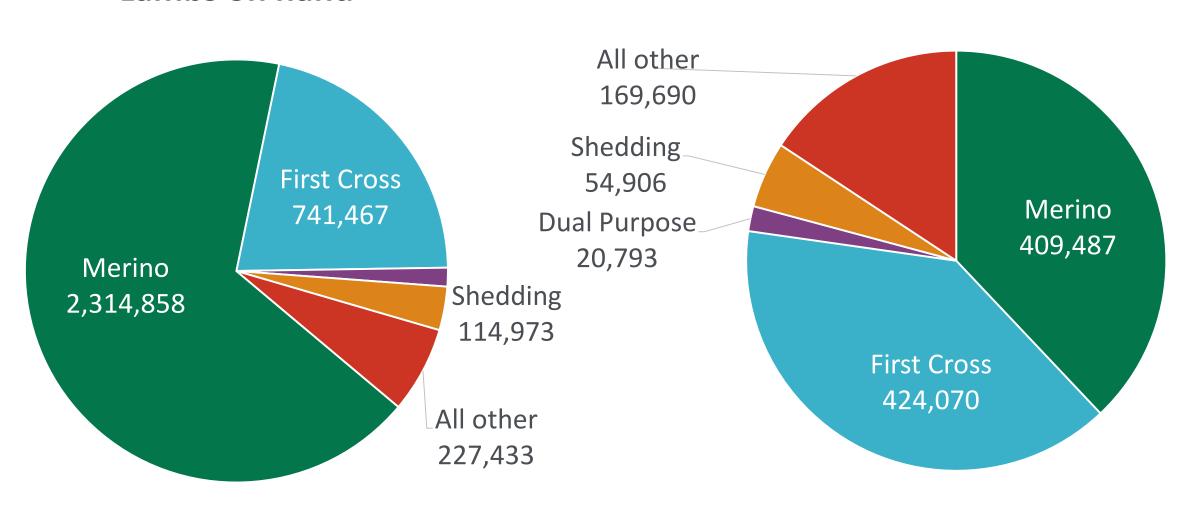
### Western Australia



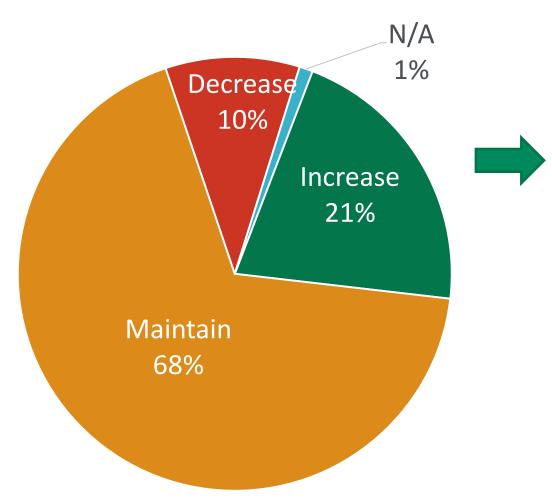
### Breeding ewes on hand



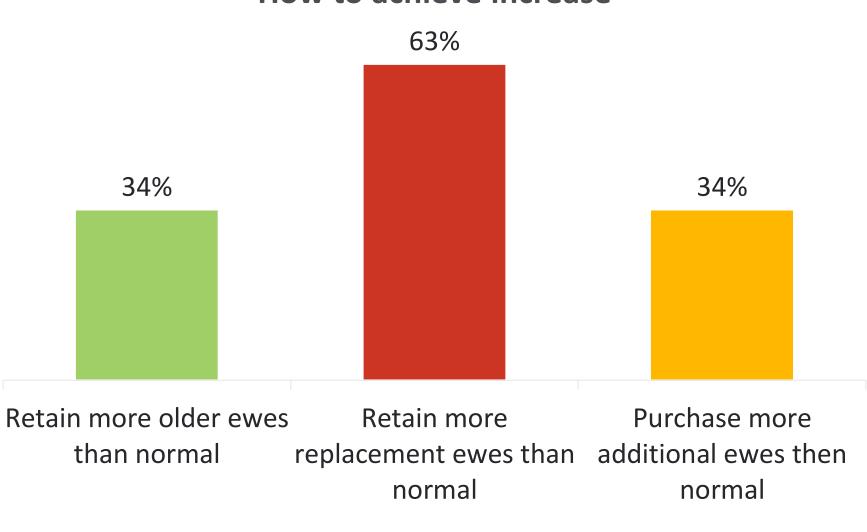
### Lambs on hand



### **Ewe Flock intentions**



### How to achieve increase



### **Totals**

Breeding ewes on hand	7,886,665
Lambs on hand	3,448,076
Expected lamb sales in the next 4 months	1,078,946
Lambs marked in the past 4 months (1 Mar – 30 Jun)	1,265,560
Number of ewes joined to produce marked lambs	1,426,330



## Disclaimer



Information contained in this publication is obtained from a variety of third party sources. To the best of MLA's knowledge the information accurately depicts existing and likely future market demand. However, MLA has not verified all third party information, and forecasts and projections are imprecise and subject to a high degree of uncertainty.

MLA makes no representations and to the extent permitted by law excludes all warranties in relation to the information contained in this publication. MLA is not liable to you or to any third party for any losses, costs or expenses, including any direct, indirect, incidental, consequential, special or exemplary damages or lost profit, resulting from any use or misuse of the information contained in this publication.

