

# New England 2018 Drop

## Overview of Professional and AMSEA Class

### November 2025

## Raw Data and Index

### Introduction

The New England site was hosted by CSIRO at “Chiswick” Uralla in conjunction with the New England Merino Sire Evaluation Association. The site was one of five participating in the AWI-funded Merino Lifetime Productivity (MLP) Project, which was facilitated by the Australian Merino Sire Evaluation Association.

### 2018 Drop Key Assessments and Dates plus Glossary

The New England 2018 drop ewes are the daughters of 15 industry sires that were joined to a ewe base made up of a typical commercial superfine/fine wool type based on local performance recorded studs (most recently Cressbrook and Alfoxton sires, previously T13 and Westvale). The Breech Strike Genetics flock made up one-third of the ewe base, and was composed of genetics from many sources, although for the last five years prior to involvement in the MLP project, the flock has been essentially a superfine/fine wool flock (bulk 70’s quality count, adult ewe mean fibre diameter approx. 17µm).

Event	Date	Age Stage	Lactation Status	Age and Wool Growth
Birth	September 2018			
Yearling Assessment	August 2019	Y	Dry	11 months, 10.5 months wool
<i>First Joining</i>	<i>April 2020</i>			
Adult 2 Assessment	July 2020	A2	Early pregnant	22 months, 11 months wool
Adult 3 Assessment	July 2021	A3	Early pregnant	3 years, 12 months wool
Adult 4 Assessment	July 2022	A4	Early pregnant	4 years, 12 months wool
Adult 5 Assessment	July 2023	A5	Early pregnant	5 years, 12 months wool
Adult 6 Assessment	July 2024	A6	Early pregnant	6 years, 12 months wool

As per MLP protocol the 2018 drop ewes are classed annually at each assessment for six years using two classing approaches - the AMSEA class (undertaken by Angus Carter), and the Professional class (undertaken by Andrew Calvert, with Angus Carter stepping in for the first Adult class because of COVID travel restrictions).

**New England Site Breeding Objective:** To breed and select sheep that have productive fleeces for the superfine type (14 -17.5µm) and are structurally sound and capable of performing under New England’s climatic, pastoral and environmental conditions. Sheep should be well grown, have sound conformation, and wool of excellent white colour, well defined character and be free of fleece rot.

### Disclaimer

This publication contains raw data that has not been adjusted for factors that may improve its accuracy. It should only be used as a general aid and is not a substitute for specific advice. To the extent permitted by law, AWI and AMSEA exclude all liability for loss or damage arising from the use of the information in this publication. © 2025 Australian Wool Innovation Limited and Australian Merino Sire Evaluation Association Incorporated. All rights reserved. **Note that no statistical analysis has been completed.**

## Classing Methodology

### Professional Class Process – Andrew Calvert (with Angus Carter at Adult)

- Drop randomly presented, no measured performance is provided, animals classed to site breeding objective
- Classed 5 ways with reason for class recorded
  - Tops - Top 1% (Equivalent to sire selection or ET ewe)
  - Studs - Top 2-10% (Equivalent to special stud ewe selection)
  - 2nds - Top 10-70% (Equivalent to classed in ewe)
  - Sales - Bottom 10-30% (Equivalent to sale ewe line)
  - Culls - Bottom 10% (Equivalent to cull line)

### AMSEA Grade Process – Angus Carter

- Drop randomly presented, no data provided, animals classed to the site breeding objective
- Classed three ways: Top 25%, Flock 50%, Cull 25%

## Glossary

Raw data is presented as lifetime performance. The ewes were shorn six times and joined four times.

- **Count or N** is the number of ewes in each grade that have full lifetime records used for reporting.
- **Average for ewes present at all 6 assessments** **CFW** = Clean Fleece Weight, **FD** = fibre diameter (um), **SL** = staple length (mm), **SS** = staple strength (N/ktex), **FAT** = fat depth (mm), **EMD** = eye muscle depth (mm), **WT** = pre-joining weight (animals with 4 pre-joining records (kg))
- **WR** = raw number of lambs weaned (for ewes that were joined 4 times)
- **FP+** = within flock selection index, selects for sheep that have superior wool quality, by improving fibre diameter, CV and staple strength. The reported value is the final index derived from all measured data. **MP+** = within flock selection index, selects for sheep for a production system that has a balance of wool and surplus Merino sheep sales with balanced improvement of fleece weight and fibre diameter. The reported value is the final index derived from all measured data.
- **Visual Scores:** **Dag**=dag, **Bdwr**=body wrinkle, **Char**=wool character, **Col**=wool colour, **Flrot**=fleece rot, **Dust**=dust penetration, **Back**=shoulder/back, **Legs**=Legs/feet, **Face**=face cover, **Spig**=non fibre pigmentation, **Jaw**=jaw structure.
- When referring to classing group, the words “**class**” and “**grade**” have been used interchangeably.

Raw data has also been expressed as **deviations from the average, with CFW, WT, and WR presented as per cent (%) deviations from the lifetime average, and all other traits in their units of measurement (denoted as the trait name plus “D”)**.

Sire ID	Sire name
504294-2015-150430	Alfoxton, 150430
601289-2016-160047	Avington Poll, 160047
503485-2016-160350	Bungulla, 160350
601555-2016-160095	Clovernook Poll, 160095
502302-2014-140055	Cressbrook, 140055
501747-2015-155145	Eilan Donan, ED5145 (Harvey)
501588-2012-120101	Europambela, 120101
601161-2011-110143	Hillcreston Park Poll, 110143
504483-2016-160156	Hilltop, 160156 (HT156)
504773-2015-150222	Karori, 150222
503298-2015-150073	Nerstane, 150073
601279-2016-160849	Petali Poll, 160849
505011-2015-150280	Tallawong Merinos, 150280
502250-2013-130149	Wurrook, 130149
501552-2016-160070	Yalgoo, 160070

## Overview of Results Presented

The following classer results capture the performance by grade of the 2018 drop New England ewes based on the Professional and AMSEA classing approaches.

The results for the Professional and AMSEA grade are initially packaged at the drop level and show average lifetime performance of animals based on their classer grades at each stage of classer assessment. Following the average performance tables, results show how the animals change in grades over time.

An appended report (page 15) evaluates ewe long-term productivity based on their first two AMSEA and Professional classer grades. By analysing the lifetime performance of animals designated as either 'retained (Top/Flock)' or 'removed (Cull)' during early assessments, the impact of early visual selection over the lifetime of the flock can be considered.

When comparing classer versus index selection, we recognise that some animals are allocated to lower classer grades based on a fault rather than their observed fleece or carcase performance. We also recognise that a classer is evaluating considerably more traits than the number of traits used to generate an index.

### Factors to Consider:

- Even ewe base
- Professional class was undertaken at A2 by an alternative classer – has this impacted results?
- Ewes classed at the very early stages of pregnancy
- Final class was 6 months post-weaning and not pregnant
- Classing most aligned with the MP index

### Best Time to do an early Class:

- Professional – at the second assessment (although note A2 was a different classer)
- AMSEA – at the second assessment

**Classers are selecting for:**

- Professional – selecting for CFW, SL, SS (at times), WT, and FD later in life, focus on improved wool colour, character and early selection for good feet/legs
- AMSEA – selecting for CFW, SL, WT, some emphasis on FD later in life, selection for favourable wool character and wool colour, and at times favourable feet/legs.

**Impact of ewe’s reproduction status on classing:**

- Professional – did not impact classing
- AMSEA – did not impact classing

**Change over time:**

- Professional – approx 50% repeatability between classings
- AMSEA – approx 60% of animals stay in the same grade between classings

<p>AMSEA Class – Yearling to Adult 2</p> <ul style="list-style-type: none"><li>• 60% Stay in the same grade</li><li>• 98% Stay in the same grade, or change by one grade</li><li>• 2% of animals change by two grades</li></ul> <p>AMSEA Class – Adult 2 to Adult 3</p> <ul style="list-style-type: none"><li>• 61% Stay in the same grade</li><li>• 99% Stay in the same grade, or change by one grade</li><li>• 1% of animals change by two grades</li></ul>	<p>Professional Class – Yearling to Adult 2</p> <ul style="list-style-type: none"><li>• 55% Stay in the same grade</li><li>• 92% Stay in the same grade, or change by one grade</li><li>• 8% of animals change by two grades</li></ul> <p>Professional Class – Adult 2 to Adult 3</p> <ul style="list-style-type: none"><li>• 51% Stay in the same grade</li><li>• 90% Stay in the same grade, or change by one grade</li><li>• 10% of animals change by two grades</li></ul>
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## Professional Classer Grade Results

New England 2018 Drop – Professional Class – Andrew Calvert (Angus Carter for Adult 2) Measured LIFETIME Performance by Grade (Drop Level) – Average Lifetime CFW, FD, SL, SS, WT, EMD, WR, A6 FP+ & MP+ Index - followed by Average Lifetime Scored Dag, Bdwr, Char, Col, Flrot, Dust, Back, Legs, Face, Spig, Jaw

<i>Age: 10.5m Wool: 10.5m</i>		Raw Data – Average LT Performance										Raw Data – Deviation from Average LT Performance									
Yearling Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	FP+D	MP+D
Top	8	3.9	16.7	101	33	58	1.7	25	4.5	99	107	120	0.3	7.1	-3.0	109	0.1	1.1	95	0.1	7.3
Stud	67	3.6	16.4	99	36	55	1.7	24	4.9	103	109	111	0.0	5.0	0.7	105	0.1	0.1	103	4.0	9.5
Seconds	353	3.2	16.4	94	36	53	1.6	24	4.8	99	99	100	0.0	0.7	0.0	100	0.0	0.1	102	-0.2	-0.3
Sale	99	3.1	16.5	92	35	51	1.6	23	4.6	98	97	97	0.1	-1.5	-0.2	97	0.0	-0.4	97	-1.9	-2.7
Cull	75	3.0	16.3	87	35	50	1.5	23	4.5	99	96	93	-0.1	-6.6	0.0	96	-0.1	-0.1	94	-0.2	-4.1
<b>Total/Ave</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>24</b>	<b>5</b>	<b>99</b>	<b>100</b>
<i>Diff Top to Bottom</i>												<i>27</i>	<i>0.4</i>	<i>13.7</i>	<i>-3.0</i>	<i>14</i>	<i>0.3</i>	<i>1.2</i>	<i>0</i>	<i>0</i>	<i>11</i>

<i>Age: 10.5m Wool: 10.5m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Yearling Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top	8	1.4	2.7	2.6	2.8	1.5	2.4	1.3	1.4	3.0	2.4	1.0
Stud	67	1.3	2.7	2.3	2.8	1.5	2.4	1.3	1.6	3.0	2.5	1.0
Seconds	353	1.3	2.6	2.4	2.8	1.4	2.4	1.3	1.6	3.0	2.6	1.0
Sale	99	1.3	2.6	2.6	2.9	1.4	2.4	1.3	1.8	3.0	2.5	1.1
Cull	75	1.4	2.7	2.7	2.8	1.5	2.3	1.4	1.9	3.1	2.5	1.0
<b>Total/Ave</b>	<b>602</b>	<b>1.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.4</b>	<b>2.4</b>	<b>1.3</b>	<b>1.7</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>
<i>Diff Top to Bottom</i>		<i>0.0</i>	<i>0.0</i>	<i>-0.1</i>	<i>0.0</i>	<i>0.1</i>	<i>0.1</i>	<i>-0.1</i>	<i>-0.5</i>	<i>-0.1</i>	<i>-0.1</i>	<i>0.0</i>

<i>Age: 21.5m Wool: 11m</i>		Raw Data – Average LT Performance										Raw Data – Deviation from Average LT Performance									
Adult 2 Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	FP+D	MP+D
<b>Top</b>	7	4.2	16.7	101	35	58	1.7	25	5.7	107	120	129	0.3	7.1	-0.7	110	0.1	0.8	120	7.7	19.9
<b>Stud</b>	67	3.5	16.7	98	36	55	1.7	24	5.0	102	107	108	0.3	4.8	0.9	104	0.1	0.5	105	2.3	6.9
<b>Seconds</b>	406	3.3	16.5	95	36	53	1.6	23	4.8	100	101	101	0.1	1.1	0.0	101	0.0	-0.1	100	0.4	0.9
<b>Sale</b>	92	3.0	16.0	88	35	51	1.6	23	4.8	98	94	91	-0.4	-6.1	-0.3	96	0.0	-0.2	100	-1.1	-5.7
<b>Cull</b>	30	2.8	16.2	85	35	49	1.5	24	3.8	91	85	87	-0.2	-8.5	-1.0	94	-0.1	0.6	80	-8.5	-15.1
<b>Total/Ave</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>24</b>	<b>5</b>	<b>99</b>	<b>100</b>
<i>Diff Top to Bottom</i>												<i>42</i>	<i>0.5</i>	<i>15.6</i>	<i>0.3</i>	<i>17</i>	<i>0.3</i>	<i>0.2</i>	<i>40</i>	<i>16</i>	<i>35</i>

<i>Age: 21.5m Wool: 11m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Adult 2 Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
<b>Top</b>	7	1.2	2.9	2.4	2.9	1.5	2.4	1.6	1.5	3.2	2.6	1.0
<b>Stud</b>	67	1.4	2.7	2.4	2.6	1.5	2.4	1.4	1.6	3.0	2.6	1.0
<b>Seconds</b>	406	1.3	2.6	2.4	2.9	1.4	2.4	1.3	1.7	3.0	2.5	1.0
<b>Sale</b>	92	1.4	2.6	2.5	2.7	1.4	2.4	1.3	1.7	3.0	2.3	1.0
<b>Cull</b>	30	1.3	2.8	2.8	2.8	1.4	2.3	1.4	1.9	3.0	3.0	1.0
<b>Total/Ave</b>	<b>602</b>	<b>1.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.4</b>	<b>2.4</b>	<b>1.3</b>	<b>1.7</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>
<i>Diff Top to Bottom</i>		<i>0.0</i>	<i>0.1</i>	<i>-0.4</i>	<i>0.0</i>	<i>0.1</i>	<i>0.1</i>	<i>0.2</i>	<i>-0.4</i>	<i>0.2</i>	<i>-0.4</i>	<i>0.0</i>

<i>Age: 2.9y Wool: 12m</i>		Raw Data – Average LT Performance										Raw Data – Deviation from Average LT Performance									
Adult 3 Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	FP+D	MP+D
<b>Top</b>	6	3.7	16.1	96	36	60	1.5	24	4.3	104	107	114	-0.3	2.5	0.5	114	-0.1	0.7	91	4.9	7.8
<b>Stud</b>	42	3.6	16.4	97	37	56	1.7	24	4.9	104	107	111	0.0	3.4	1.5	107	0.1	0.6	103	4.1	7.0
<b>Seconds</b>	343	3.2	16.4	93	36	53	1.6	23	4.9	101	101	99	0.0	-0.2	0.3	100	0.0	-0.2	102	1.6	1.7
<b>Sale</b>	155	3.3	16.6	94	34	53	1.6	24	4.6	96	97	100	0.2	0.5	-1.1	100	0.0	0.2	97	-3.1	-3.0
<b>Cull</b>	56	3.1	16.2	91	36	50	1.6	23	4.3	95	92	94	-0.2	-2.8	0.0	95	-0.1	-0.2	91	-4.7	-8.0
<b>Total/Ave</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>24</b>	<b>5</b>	<b>99</b>	<b>100</b>
<i>Diff Top to Bottom</i>												<i>20</i>	<i>-0.1</i>	<i>5.2</i>	<i>0.5</i>	<i>19</i>	<i>0.0</i>	<i>0.9</i>	<i>0</i>	<i>10</i>	<i>16</i>

<i>Age: 2.9y Wool: 12m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Adult 3 Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top	6	1.2	2.5	2.1	2.4	1.5	2.3	1.2	1.4	3.0	2.7	1.1
Stud	42	1.4	2.7	2.2	2.5	1.4	2.4	1.3	1.5	3.0	2.5	1.0
Seconds	343	1.3	2.6	2.5	2.8	1.4	2.4	1.3	1.6	3.0	2.6	1.0
Sale	155	1.4	2.6	2.5	3.0	1.5	2.4	1.3	1.7	3.0	2.4	1.0
Cull	56	1.4	2.7	2.7	2.8	1.5	2.4	1.4	1.9	3.1	2.5	1.0
<b>Total/Ave</b>	<b>602</b>	<b>1.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.4</b>	<b>2.4</b>	<b>1.3</b>	<b>1.7</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>
<i>Diff Top to Bottom</i>		-0.2	-0.2	-0.6	-0.4	0.0	0.0	-0.2	-0.5	-0.1	0.2	0.1

<i>Age: 3.9y Wool: 12m</i>		Raw Data – Average LT Performance										Raw Data – Deviation from Average LT Performance									
Adult 4 Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	FP+D	MP+D
Top	6	3.3	16.1	95	36	56	2.2	25	4.8	104	106	101	-0.3	0.8	0.2	107	0.6	1.3	102	4.2	6.1
Stud	65	3.5	16.3	95	35	56	1.7	23	5.0	105	107	109	-0.2	1.7	-0.3	106	0.1	-0.1	104	5.4	7.8
Seconds	310	3.2	16.4	93	36	52	1.6	23	4.8	100	100	99	0.0	-0.7	0.3	99	0.0	-0.1	102	0.5	0.2
Sale	163	3.3	16.5	95	36	52	1.6	24	4.6	97	97	100	0.1	0.9	0.1	99	0.0	0.2	97	-2.3	-2.8
Cull	57	3.1	16.4	93	34	52	1.5	23	4.5	96	97	96	-0.1	-1.0	-1.3	99	-0.1	-0.2	95	-3.0	-3.0
<b>Total/Ave</b>	<b>601</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>24</b>	<b>5</b>	<b>99</b>	<b>100</b>
<i>Diff Top to Bottom</i>		5	-0.2	1.9	1.5	8	0.7	1.5	7	7	9										

<i>Age: 3.9y Wool: 12m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Adult 4 Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top	6	1.4	2.8	2.3	2.5	1.4	2.3	1.5	1.8	2.9	1.5	1.2
Stud	65	1.3	2.6	2.3	2.8	1.4	2.4	1.4	1.5	3.0	2.4	1.1
Seconds	310	1.4	2.6	2.5	2.8	1.4	2.4	1.3	1.6	3.0	2.7	1.0
Sale	163	1.4	2.6	2.5	2.9	1.4	2.4	1.3	1.8	3.0	2.4	1.0
Cull	57	1.3	2.6	2.5	2.9	1.5	2.4	1.4	1.9	3.0	2.5	1.0
<b>Total/Ave</b>	<b>601</b>	<b>1.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.4</b>	<b>2.4</b>	<b>1.3</b>	<b>1.7</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>
<i>Diff Top to Bottom</i>		0.0	0.2	-0.2	-0.4	-0.1	0.0	0.1	-0.1	-0.1	-1.0	0.2

<i>Age: 4.9y Wool: 12m</i>		Raw Data – Average LT Performance										Raw Data – Deviation from Average LT Performance									
Adult 5 Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	FP+D	MP+D
<b>Top</b>	6	3.9	16.4	100	37	59	1.6	24	4.0	108	109	119	-0.1	6.6	1.8	112	0.0	0.4	84	8.8	9.2
<b>Stud</b>	65	3.5	16.3	95	38	55	1.7	24	4.8	108	108	109	-0.1	1.4	2.3	105	0.1	0.2	102	8.2	8.7
<b>Seconds</b>	337	3.2	16.3	93	35	52	1.6	23	4.9	101	101	99	-0.1	-1.0	-0.3	100	-0.1	-0.2	104	1.5	1.5
<b>Sale</b>	119	3.1	16.6	93	35	51	1.6	24	4.6	95	96	96	0.1	-0.4	-0.5	98	0.0	0.1	97	-4.1	-4.1
<b>Cull</b>	75	3.2	16.8	97	35	53	1.7	24	4.2	91	91	100	0.4	3.2	-0.1	100	0.1	0.7	88	-8.2	-8.8
<b>Total/Ave</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>24</b>	<b>5</b>	<b>99</b>	<b>100</b>
<i>Diff Top to Bottom</i>												<i>19</i>	<i>-0.5</i>	<i>3.4</i>	<i>1.9</i>	<i>11</i>	<i>-0.1</i>	<i>-0.3</i>	<i>-3</i>	<i>17</i>	<i>18</i>

<i>Age: 4.9y Wool: 12m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Adult 5 Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
<b>Top</b>	6	1.4	2.5	2.2	2.6	1.4	2.3	1.4	1.5	3.1	3.0	1.1
<b>Stud</b>	65	1.4	2.7	2.3	2.6	1.5	2.3	1.4	1.5	3.0	2.5	1.1
<b>Seconds</b>	337	1.3	2.6	2.5	2.8	1.4	2.4	1.3	1.7	3.0	2.6	1.0
<b>Sale</b>	119	1.3	2.6	2.5	2.9	1.4	2.4	1.2	1.8	3.0	2.5	1.0
<b>Cull</b>	75	1.4	2.6	2.6	3.1	1.5	2.4	1.3	1.8	3.0	2.3	1.0
<b>Total/Ave</b>	<b>602</b>	<b>1.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.4</b>	<b>2.4</b>	<b>1.3</b>	<b>1.7</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>
<i>Diff Top to Bottom</i>		<i>0.0</i>	<i>-0.1</i>	<i>-0.4</i>	<i>-0.6</i>	<i>-0.1</i>	<i>-0.1</i>	<i>0.1</i>	<i>-0.3</i>	<i>0.1</i>	<i>0.7</i>	<i>0.0</i>

<i>Age: 5.9y Wool: 12m</i>		Raw Data – Average LT Performance										Raw Data – Deviation from Average LT Performance									
Adult 6 Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	FP+D	MP+D
<b>Top</b>	6	3.6	16.1	93	36	58	1.6	24	4.8	112	113	110	-0.3	-0.4	0.4	110	-0.1	0.1	102	13.0	13.4
<b>Stud</b>	72	3.4	16.3	94	36	55	1.5	23	5.1	104	106	105	-0.1	0.6	0.5	104	0.0	-0.2	107	4.3	6.8
<b>Seconds</b>	367	3.2	16.3	93	36	52	1.6	23	4.9	102	101	100	-0.1	-1.0	0.1	99	0.0	-0.1	102	2.2	1.8
<b>Sale</b>	123	3.2	16.7	95	35	52	1.6	24	4.4	93	93	97	0.2	1.1	-0.4	99	0.0	0.2	92	-6.5	-6.7
<b>Cull</b>	31	3.3	17.0	99	35	54	1.6	25	4.0	88	87	100	0.5	5.6	-0.5	103	0.2	1.2	85	-11.5	-12.8
<b>Total/Ave</b>	<b>599</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>24</b>	<b>5</b>	<b>99</b>	<b>100</b>
<i>Diff Top to Bottom</i>												9	-0.9	-6.0	0.9	8	-0.3	-1.1	17	24	26

<i>Age: 5.9y Wool: 12m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Adult 6 Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
<b>Top</b>	6	1.3	2.7	2.2	2.5	1.4	2.3	1.4	1.5	3.0	2.8	1.0
<b>Stud</b>	72	1.3	2.7	2.3	2.6	1.4	2.4	1.4	1.5	3.0	2.4	1.0
<b>Seconds</b>	367	1.4	2.6	2.5	2.8	1.4	2.4	1.3	1.7	3.0	2.6	1.0
<b>Sale</b>	123	1.3	2.5	2.5	3.0	1.4	2.4	1.3	1.8	3.0	2.5	1.0
<b>Cull</b>	31	1.4	2.5	2.7	3.3	1.5	2.4	1.3	1.6	2.9	2.3	1.0
<b>Total/Ave</b>	<b>599</b>	<b>1.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.4</b>	<b>2.4</b>	<b>1.3</b>	<b>1.7</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>
<i>Diff Top to Bottom</i>		-0.1	0.2	-0.5	-0.8	-0.1	-0.1	0.2	-0.1	0.1	0.6	0.0

**New England 2018 Drop – Professional Grade  
Change Between Grades & Next Grade – Calvert  
(Carter at first Adult)**

	Grade	Adult 2					
		Top	Stud	2nd	Sale	Cull	Total
Yearling	Top	3	4	1			8
	Stud	2	21	41	2	1	67
	2nd	2	38	268	40	5	353
	Sale		3	64	25	7	99
	Cull		1	32	25	17	75
	<b>Total</b>		<b>7</b>	<b>67</b>	<b>406</b>	<b>92</b>	<b>30</b>
55% stayed the same							
	Grade	Adult 3					
		Top	Stud	2nd	Sale	Cull	Total
Adult 2	Top		2	5			7
	Stud	3	16	36	11	1	67
	2nd	3	23	250	101	29	406
	Sale		1	42	32	17	92
	Cull			10	11	9	30
	<b>Total</b>		<b>6</b>	<b>42</b>	<b>343</b>	<b>155</b>	<b>56</b>
51% stayed the same							
	Grade	Adult 4					
		Top	Stud	2nd	Sale	Cull	Total
Adult 3	Top	1	3	1	1		6
	Stud	2	12	19	7	2	42
	2nd	3	39	200	83	17	342
	Sale		11	72	56	16	155
	Cull			18	16	22	56
	<b>Total</b>		<b>6</b>	<b>65</b>	<b>310</b>	<b>163</b>	<b>57</b>
48% stayed the same							
	Grade	Adult 5					
		Top	Stud	2nd	Sale	Cull	Total
Adult 4	Top	1	3	1		1	6
	Stud	3	13	40	8	1	65
	2nd	1	31	208	49	21	310
	Sale	1	15	61	50	36	163
	Cull		3	27	11	16	57
	<b>Total</b>		<b>6</b>	<b>65</b>	<b>337</b>	<b>118</b>	<b>75</b>
48% stayed the same							
	Grade	Adult 6					
		Top	Stud	2nd	Sale	Cull	Total
Adult 5	Top	2		3	1		6
	Stud	2	25	36	2		65
	2nd	2	36	245	50	4	337
	Sale		8	61	41	8	118
	Cull		3	22	29	19	73
	<b>Total</b>		<b>6</b>	<b>72</b>	<b>367</b>	<b>123</b>	<b>31</b>
55% stayed the same							

**New England 2018 Drop – Professional Grade  
Change Between each Grade and Adult 6  
Grade – Calvert (Carter at first Adult)**

	Grade	Adult 6					
		Top	Stud	2nd	Sale	Cull	Total
Yearling	Top		4	3	1		8
	Stud	1	15	34	13	4	67
	2nd	4	44	232	58	14	352
	Sale		6	57	26	8	97
	Cull	1	3	41	25	5	75
	<b>Total</b>		<b>6</b>	<b>72</b>	<b>367</b>	<b>123</b>	<b>31</b>
46% stayed the same							
	Grade	Adult 6					
		Top	Stud	2nd	Sale	Cull	Total
Adult 2	Top		2	5			7
	Stud	1	16	36	11	3	67
	2nd	4	48	255	80	16	403
	Sale	1	4	55	24	8	92
	Cull		2	16	8	4	30
	<b>Total</b>		<b>6</b>	<b>72</b>	<b>367</b>	<b>123</b>	<b>31</b>
50% stayed the same							
	Grade	Adult 6					
		Top	Stud	2nd	Sale	Cull	Total
Adult 3	Top	1	2	2	1		6
	Stud	2	13	21	3	3	42
	2nd	2	42	233	56	9	342
	Sale	1	15	83	42	13	154
	Cull			28	21	6	55
	<b>Total</b>		<b>6</b>	<b>72</b>	<b>367</b>	<b>123</b>	<b>31</b>
49% stayed the same							
	Grade	Adult 6					
		Top	Stud	2nd	Sale	Cull	Total
Adult 4	Top	2	3	1			6
	Stud	3	15	36	7	4	65
	2nd	1	34	215	50	9	309
	Sale		14	94	42	12	162
	Cull		6	21	23	6	56
	<b>Total</b>		<b>6</b>	<b>72</b>	<b>367</b>	<b>122</b>	<b>31</b>
47% stayed the same							
	Grade	Adult 6					
		Top	Stud	2nd	Sale	Cull	Total
Adult 5	Top	2		3	1		6
	Stud	2	25	36	2		65
	2nd	2	36	245	50	4	337
	Sale		8	61	41	8	118
	Cull		3	22	29	19	73
	<b>Total</b>		<b>6</b>	<b>72</b>	<b>367</b>	<b>123</b>	<b>31</b>
55% stayed the same							

## AMSEA Classer Grade Results

New England 2018 Drop – AMSEA Grade – Angus Carter Measured LIFETIME Performance by Grade (Drop Level) – Average Lifetime CFW, FD, SL, SS, WT, EMD, WR, A6 FP+ & MP+ Index - followed by Average Lifetime Scored Dag, Bdwr, Char, Col, Flrot, Dust, Back, Legs, Face, Spig, Jaw

<i>Age: 10.5m Wool: 10.5m</i>		Raw Data – Average LT Performance										Raw Data – Deviation from Average LT Performance									
Yearling	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	FP+D	MP+D
<b>Top</b>	108	3.6	16.7	100	35	55	1.7	24	5.0	97	102	110	0.3	6.6	-0.4	105	0.1	0.3	105	-2	2
<b>Flock</b>	346	3.2	16.4	94	36	53	1.6	23	4.7	100	100	100	0.0	0.2	0.2	100	0.0	0.0	99	1	1
<b>Cull</b>	148	3.0	16.3	88	35	51	1.5	23	4.6	99	96	93	-0.1	-5.3	-0.1	96	-0.1	-0.2	98	-1	-4
<b>Total/Ave</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>
<i>Diff Top to Bottom</i>												<i>17</i>	<i>0.4</i>	<i>11.8</i>	<i>-0.3</i>	<i>8</i>	<i>0.2</i>	<i>0.5</i>	<i>7</i>	<i>-1</i>	<i>6</i>

<i>Age: 10.5m Wool: 10.5m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Yearling	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
<b>Top</b>	108	1.4	2.6	2.4	2.8	1.5	2.4	1.3	1.7	3.0	2.6	1.0
<b>Flock</b>	346	1.3	2.6	2.4	2.8	1.4	2.4	1.3	1.6	3.0	2.6	1.0
<b>Cull</b>	148	1.3	2.6	2.6	2.8	1.4	2.3	1.3	1.8	3.0	2.5	1.1
<b>Total/Ave</b>	<b>602</b>	<b>1.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.4</b>	<b>2.4</b>	<b>1.3</b>	<b>1.7</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>
<i>Diff Top to Bottom</i>		<i>0.0</i>	<i>0.0</i>	<i>-0.2</i>	<i>0.1</i>	<i>0.0</i>	<i>0.1</i>	<i>0.0</i>	<i>-0.1</i>	<i>-0.1</i>	<i>0.2</i>	<i>-0.1</i>

<i>Age: 21.5m Wool: 11m</i>		Raw Data – Average LT Performance										Raw Data – Deviation from Average LT Performance									
Adult 2 Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	FP+D	MP+D
<b>Top</b>	129	3.5	16.5	99	36	54	1.6	24	4.9	102	107	109	0.1	4.9	0.1	104	0.0	0.1	103	3	7
<b>Flock</b>	373	3.2	16.5	94	36	53	1.6	23	4.7	99	100	100	0.1	0.3	0.1	100	0.0	0.0	100	0	0
<b>Cull</b>	100	2.8	16.0	86	35	50	1.5	23	4.6	96	90	88	-0.5	-7.6	-0.5	95	-0.1	-0.1	97	-3	-10
<b>Total/Ave</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>
<i>Diff Top to Bottom</i>												<i>22</i>	<i>0.5</i>	<i>12.6</i>	<i>0.6</i>	<i>9</i>	<i>0.1</i>	<i>0.2</i>	<i>6</i>	<i>6</i>	<i>17</i>

<i>Age: 21.5m Wool: 11m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Adult 2 Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
<b>Top</b>	129	1.4	2.7	2.3	2.7	1.4	2.4	1.3	1.6	3.0	2.6	1.0
<b>Flock</b>	373	1.3	2.6	2.5	2.9	1.4	2.4	1.3	1.7	3.0	2.5	1.0
<b>Cull</b>	100	1.3	2.7	2.7	2.7	1.4	2.3	1.4	1.7	3.0	2.6	1.0
<b>Total/Ave</b>	<b>602</b>	<b>1.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.4</b>	<b>2.4</b>	<b>1.3</b>	<b>1.7</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>
<i>Diff Top to Bottom</i>		<i>0.0</i>	<i>0.0</i>	<i>-0.3</i>	<i>0.0</i>	<i>0.0</i>	<i>0.1</i>	<i>0.0</i>	<i>-0.1</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>

<i>Age: 2.9y Wool: 12m</i>		Raw Data – Average LT Performance										Raw Data – Deviation from Average LT Performance									
Adult 3 Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	FP+D	MP+D
Top	102	3.6	16.5	98	36	55	1.7	24	4.6	103	105	110	0.0	4.7	0.5	104	0.1	0.4	97	3	6
Flock	411	3.2	16.5	94	35	52	1.6	23	4.8	99	100	100	0.0	0.3	-0.1	100	0.0	-0.1	102	0	0
Cull	89	3.0	16.2	87	36	51	1.5	24	4.5	96	91	91	-0.3	-6.8	0.0	97	-0.1	0.2	95	-4	-8
<b>Total/Ave</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>
<i>Diff Top to Bottom</i>												<i>19</i>	<i>0.3</i>	<i>11.4</i>	<i>0.5</i>	<i>8</i>	<i>0.2</i>	<i>0.2</i>	<i>2</i>	<i>7</i>	<i>14</i>

<i>Age: 2.9y Wool: 12m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Adult 3 Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top	102	1.3	2.8	2.3	2.7	1.4	2.4	1.3	1.6	3.0	2.5	1.0
Flock	411	1.3	2.6	2.5	2.9	1.4	2.4	1.3	1.7	3.0	2.6	1.0
Cull	89	1.4	2.6	2.6	2.8	1.4	2.4	1.3	1.8	3.1	2.5	1.1
<b>Total/Ave</b>	<b>602</b>	<b>1.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.4</b>	<b>2.4</b>	<b>1.3</b>	<b>1.7</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>
<i>Diff Top to Bottom</i>		<i>0.0</i>	<i>0.1</i>	<i>-0.4</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>-0.2</i>	<i>-0.1</i>	<i>0.1</i>	<i>0.0</i>

<i>Age: 3.9y Wool: 12m</i>		Raw Data – Average LT Performance										Raw Data – Deviation from Average LT Performance									
Adult 4 Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	FP+D	MP+D
Top	93	3.5	16.1	97	35	54	1.7	24	4.9	107	109	106	-0.3	3.0	-0.6	103	0.1	0.1	102	7	9
Flock	384	3.3	16.5	94	36	53	1.6	23	4.8	100	101	101	0.0	0.1	0.2	100	0.0	0.0	102	1	1
Cull	124	3.0	16.5	91	35	51	1.6	23	4.4	92	89	93	0.1	-2.6	-0.3	96	0.0	0.1	92	-7	-11
<b>Total/Ave</b>	<b>601</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>
<i>Diff Top to Bottom</i>												<i>14</i>	<i>-0.4</i>	<i>5.6</i>	<i>-0.3</i>	<i>7</i>	<i>0.1</i>	<i>0.0</i>	<i>10</i>	<i>15</i>	<i>20</i>

<i>Age: 3.9y Wool: 12m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Adult 4 Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top	93	1.4	2.7	2.2	2.6	1.4	2.4	1.3	1.5	3.0	2.8	1.0
Flock	384	1.3	2.6	2.5	2.8	1.4	2.4	1.3	1.7	3.0	2.5	1.0
Cull	124	1.3	2.6	2.7	2.9	1.4	2.4	1.3	1.8	3.0	2.5	1.0
<b>Total/Ave</b>	<b>601</b>	<b>1.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.4</b>	<b>2.4</b>	<b>1.3</b>	<b>1.7</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>
<i>Diff Top to Bottom</i>		<i>0.0</i>	<i>0.1</i>	<i>-0.5</i>	<i>-0.2</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>-0.3</i>	<i>0.0</i>	<i>0.2</i>	<i>0.0</i>

<i>Age: 4.9y Wool: 12m</i>		Raw Data – Average LT Performance										Raw Data – Deviation from Average LT Performance									
Adult 5 Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	FP+D	MP+D
Top	106	3.4	16.3	96	36	54	1.6	23	4.6	105	106	106	-0.1	2.5	0.9	102	0.0	0.0	96	6	7
Flock	336	3.3	16.4	94	35	53	1.6	23	4.9	100	101	101	0.0	-0.2	-0.4	100	0.0	-0.1	103	1	1
Cull	160	3.1	16.6	92	36	52	1.6	24	4.5	94	92	95	0.2	-1.3	0.1	98	0.0	0.1	96	-5	-7
<b>Total/Ave</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>
<i>Diff Top to Bottom</i>												<i>10</i>	<i>-0.3</i>	<i>3.8</i>	<i>0.8</i>	<i>4</i>	<i>0.0</i>	<i>-0.2</i>	<i>1</i>	<i>11</i>	<i>14</i>

<i>Age: 4.9y Wool: 12m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Adult 5 Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top	106	1.3	2.6	2.2	2.6	1.4	2.4	1.3	1.5	3.0	2.6	1.0
Flock	336	1.4	2.6	2.5	2.8	1.4	2.4	1.3	1.7	3.0	2.5	1.0
Cull	160	1.3	2.6	2.6	2.9	1.5	2.4	1.3	1.8	3.0	2.5	1.1
<b>Total/Ave</b>	<b>602</b>	<b>1.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.4</b>	<b>2.4</b>	<b>1.3</b>	<b>1.7</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>
<i>Diff Top to Bottom</i>		<i>0.0</i>	<i>0.1</i>	<i>-0.4</i>	<i>-0.3</i>	<i>-0.1</i>	<i>0.0</i>	<i>0.1</i>	<i>-0.2</i>	<i>0.0</i>	<i>0.1</i>	<i>0.0</i>

<i>Age: 5.9y Wool: 12m</i>		Raw Data – Average LT Performance										Raw Data – Deviation from Average LT Performance									
Adult 6 Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	FP+D	MP+D
Top	90	3.4	16.2	96	37	53	1.6	23	4.3	106	106	104	-0.2	2.2	1.1	101	0.0	-0.5	90	6	6
Flock	329	3.2	16.3	93	35	53	1.6	23	4.9	101	102	99	-0.1	-0.7	-0.1	100	0.0	0.0	104	2	2
Cull	183	3.2	16.7	94	35	52	1.6	24	4.6	94	93	99	0.3	0.2	-0.4	99	0.0	0.3	98	-6	-6
<b>Total/Ave</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>
<i>Diff Top to Bottom</i>												<i>6</i>	<i>-0.4</i>	<i>2.0</i>	<i>1.5</i>	<i>2</i>	<i>0.0</i>	<i>-0.8</i>	<i>-8</i>	<i>12</i>	<i>12</i>

<i>Age: 5.9y Wool: 12m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Adult 6 Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top	90	1.3	2.7	2.2	2.6	1.4	2.4	1.4	1.5	3.0	2.7	1.0
Flock	329	1.3	2.6	2.5	2.8	1.4	2.4	1.3	1.7	3.0	2.6	1.0
Cull	183	1.3	2.6	2.6	3.1	1.5	2.4	1.3	1.7	3.0	2.4	1.0
<b>Total/Ave</b>	<b>602</b>	<b>1.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.8</b>	<b>1.4</b>	<b>2.4</b>	<b>1.3</b>	<b>1.7</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>
<i>Diff Top to Bottom</i>		<i>0.0</i>	<i>0.1</i>	<i>-0.4</i>	<i>-0.5</i>	<i>0.0</i>	<i>0.0</i>	<i>0.1</i>	<i>-0.2</i>	<i>-0.1</i>	<i>0.3</i>	<i>0.0</i>

**New England 2018 Drop – AMSEA Grade Change Over Time– Angus Carter**

		Adult 2			
		Top	Flock	Cull	Total
Yearling	Grade				
	Top	54	51	3	108
	Flock	66	246	34	346
	Cull	9	76	63	148
Total	129	373	100	602	
60% stayed the same					

		Adult 3			
		Top	Flock	Cull	Total
Adult 2	Grade				
	Top	51	75	3	129
	Flock	50	274	49	373
	Cull	1	62	37	100
Total	102	411	89	602	
60% stayed the same					

		Adult 4			
		Top	Flock	Cull	Total
Adult 3	Grade				
	Top	36	62	4	102
	Flock	54	284	72	410
	Cull	3	38	48	89
Total	93	384	124	601	
61% stayed the same					

		Adult 5			
		Top	Flock	Cull	Total
Adult 4	Grade				
	Top	41	49	3	93
	Flock	62	241	81	384
	Cull	3	46	75	124
Total	106	336	159	601	
59% stayed the same					

		Adult 6			
		Top	Flock	Cull	Total
Adult 5	Grade				
	Top	47	53	6	106
	Flock	40	232	64	336
	Cull	3	44	113	160
Total	90	329	183	602	
65% stayed the same					

**New England 2018 Drop – AMSEA Grade Change Between Each Grade & Adult 6 – Angus Carter**

		Adult 6			
		Top	Flock	Cull	Total
Yearling	Grade				
	Top	17	54	37	108
	Flock	59	199	88	346
	Cull	14	76	58	148
Total	90	329	183	602	
46% stayed the same					

		Adult 6			
		Top	Flock	Cull	Total
Adult 2	Grade				
	Top	51	75	3	129
	Flock	50	274	49	373
	Cull	1	62	37	100
Total	102	411	89	602	
60% stayed the same					

		Adult 6			
		Top	Flock	Cull	Total
Adult 3	Grade				
	Top	36	62	4	102
	Flock	54	284	72	410
	Cull	3	38	48	89
Total	93	384	124	601	
61% stayed the same					

		Adult 6			
		Top	Flock	Cull	Total
Adult 4	Grade				
	Top	41	49	3	93
	Flock	62	241	81	384
	Cull	3	46	75	124
Total	106	336	159	601	
59% stayed the same					

		Adult 6			
		Top	Flock	Cull	Total
Adult 5	Grade				
	Top	47	53	6	106
	Flock	40	232	64	336
	Cull	3	44	113	160
Total	90	329	183	602	
65% stayed the same					

## Appendix – Exploring Consolidated AMSEA and Professional Class Grades

This appendix evaluates the long-term productivity of ewes based on their first two AMSEA and Professional classer grades. By analysing the lifetime performance of animals designated as either 'retained' or 'removed' during early assessments, this work illustrates the impact of visual selection on flock performance over the lifetime of that flock.

**New England 2018 Drop – AMSEA Grade – Angus Carter Measured LIFETIME Performance by Grade (Drop Level) –Average Lifetime CFW, FD, SL, SS, WT, EMD, WR, A5 MP+ Index - followed by Ave LT Scored Dag, Bdwr, Char, Col, Flrot, Dust, Back, Legs, Face, Spig, Jaw**

### AMSEA Class – Yearling

Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+
Top/Flock	454	3.3	16.5	95	36	53	1.6	24	4.8	100	101
Cull	148	3.0	16.3	88	35	51	1.5	23	4.6	99	96
<b>Total</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>93.7</b>	<b>35.5</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>

Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top/Flock	454	1.34	2.60	2.43	2.82	1.43	2.39	1.31	1.65	2.99	2.57	1.03
Cull	148	1.34	2.65	2.56	2.79	1.42	2.34	1.34	1.76	3.03	2.46	1.08
<b>Tot/Ave</b>	<b>602</b>	<b>1.34</b>	<b>2.61</b>	<b>2.46</b>	<b>2.81</b>	<b>1.43</b>	<b>2.38</b>	<b>1.32</b>	<b>1.67</b>	<b>3.00</b>	<b>2.54</b>	<b>1.04</b>

### AMSEA Class – Adult 2

Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+
Top/Flock	502	3.3	16.5	95	36	53	1.6	24	4.8	100	102
Cull	100	2.8	16.0	86	35	50	1.5	23	4.6	96	90
<b>Total</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>93.7</b>	<b>35.5</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>

Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top/Flock	502	1.34	2.60	2.42	2.83	1.43	2.39	1.31	1.66	2.99	2.53	1.04
Cull	100	1.34	2.69	2.65	2.73	1.42	2.34	1.35	1.74	3.04	2.60	1.04
<b>Tot/Ave</b>	<b>602</b>	<b>1.34</b>	<b>2.61</b>	<b>2.46</b>	<b>2.81</b>	<b>1.43</b>	<b>2.38</b>	<b>1.32</b>	<b>1.67</b>	<b>3.00</b>	<b>2.54</b>	<b>1.04</b>

**New England 2018 Drop – Professional Class – Andrew Calvert/ Angus Carter Measured LIFETIME Performance by Grade (Drop Level) – Average Lifetime CFW, FD, SL, SS, WT, EMD, WR, A5 MP+ Index - followed by Ave LT Scored Dag, Bdwr, Char, Col, Flrot, Dust, Back, Legs, Face, Spig, Jaw**

Prof Class – Yearling

Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+
Top Stud Second	428	3.3	16.4	95	36	53	1.6	24	4.8	100	101
Sale	99	3.1	16.5	92	35	51	1.6	23	4.6	98	97
Cull	75	3.0	16.3	87	35	50	1.5	23	4.5	99	96
<b>Total</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>

Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top Stud Second	428	1.34	2.60	2.40	2.80	1.43	2.38	1.31	1.62	2.99	2.56	1.04
Sale	99	1.34	2.60	2.55	2.92	1.39	2.40	1.29	1.76	2.99	2.48	1.05
Cull	75	1.39	2.71	2.69	2.79	1.45	2.34	1.41	1.87	3.09	2.51	1.03
<b>Tot/Ave</b>	<b>602</b>	<b>1.34</b>	<b>2.61</b>	<b>2.46</b>	<b>2.81</b>	<b>1.43</b>	<b>2.38</b>	<b>1.32</b>	<b>1.67</b>	<b>3.00</b>	<b>2.54</b>	<b>1.04</b>

Prof Class – Adult 2

Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	FP+	MP+
Top Stud Second	480	3.3	16.5	95	36	53	1.6	23	4.8	100	102
Sale	92	3.0	16.0	88	35	51	1.5	23	4.8	98	94
Cull	30	2.8	16.2	85	35	49	1.6	24	3.8	91	85
<b>Total</b>	<b>602</b>	<b>3.2</b>	<b>16.4</b>	<b>94</b>	<b>36</b>	<b>53</b>	<b>1.6</b>	<b>23</b>	<b>4.7</b>	<b>99</b>	<b>100</b>

Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top Stud Second	480	1.34	2.60	2.43	2.83	1.43	2.38	1.32	1.66	2.99	2.55	1.04
Sale	92	1.36	2.65	2.49	2.73	1.43	2.35	1.31	1.71	3.02	2.35	1.04
Cull	30	1.26	2.77	2.82	2.82	1.40	2.33	1.40	1.85	3.04	3.00	1.04
<b>Tot/Ave</b>	<b>602</b>	<b>1.34</b>	<b>2.61</b>	<b>2.46</b>	<b>2.81</b>	<b>1.43</b>	<b>2.38</b>	<b>1.32</b>	<b>1.67</b>	<b>3.00</b>	<b>2.54</b>	<b>1.04</b>