

Balmoral 2015 Drop Classing Report

Overview of Professional, AMSEA and Wells Classer Trial June 2025

Raw Data and Index

Disclaimer

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Introduction

The Balmoral site was hosted by Tuloona Pastoral and the Balmoral Breeders, and was located on “Tuloona” in Harrow, Victoria. The site was one of five sites participating in the AWI-funded Merino Lifetime Productivity (MLP) Project, which was facilitated by the Australian Merino Sire Evaluation Association.

2015 Drop - Key Assessments and Dates

The Balmoral 2015 drop ewes were the daughters of 25 industry sires, joined to a fine wool ewe base comprising one line of commercial ewes.

The ewes tracked well for growth rate until they were affected by lupinosis in March 2016. The combination of managing lupinosis, the number of trial activities, and dry seasonal conditions continued to impact growth rates. Once shorn at post-weaning age, the ewes picked up, although a wet winter led to a breakdown in wool quality. Most fleece issues were resolved by the 2017 shearing, although a few required antibiotics pre-shearing to lift dermatitis.

Event	Date	Age Stage	Lactation Status	Age and Wool Growth
Birth	August 2015			
Post Weaning Assessment	March 2016	P	Dry	7.5 months, 7.5 months wool
Adult 2 Assessment	March 2017	A2	Dry	19 months, 11 months wool
<i>First Joining</i>	<i>March 2017</i>			
<i>Weaning</i>	<i>November 2017</i>			
Adult 3 Assessment	February 2018	A3	After weaning	2.5 years, 12 months wool
Adult 4	February 2019	A4	After weaning	3.5 years, 12 months wool
Adult 5	February 2020	A5	After weaning	4.5 years, 12 months wool
Adult 6	February 2021	A6	After weaning	5.5 years, 12 months wool
Adult 7	February 2022	A7	After weaning	6.5 years, 12 months wool

As per the MLP protocol, the 2015 drop ewes were classed annually at each assessment for 7 years using two classing approaches – the AMSEA class (undertaken by David Whyte) and the Professional class (undertaken by Bill Walker). Note that during the data collection of the Professional Class undertaken in 2018, there were some technical difficulties, and the classing outcome was not captured for approximately 70 ewes. This will impact the interpretation of the results.

The ewes also took part in the Wells Classer trial at stages P, A2 and A7 (6.5 years of age). Classers involved were Bill Walker and Chris Bowman.

Balmoral Site Breeding Objective: The goal is to select sheep that are productive and well-grown, with sound conformation and carrying heavy fine wool fleeces of good character, colour and nourishment suitable for the western Victorian environment.

Classing Methodology

Professional Class Process – Bill Walker

- Drop randomly presented, no measured performance is provided, animals classed to the 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 – David Whyte

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

Wells Classer Trial Process – Bill Walker and Chris Bowman

- Classed within sire progeny groups
- Birth type, rearing type, nominated breeding objective and wool type provided (superfine/fine or fine/medium or medium/strong).
- Classed to sire specific breeding objective, fixed portion of animals in each classing grade
- Classed four ways with reason for class recorded – **Approximately 30 sheep per sire**
 - 10%=Tops (always top 3 sheep), 25%= Seconds (7–8 sheep), 30% = Sales (9 sheep), 35%= Culls (10–11 sheep)

Breeding Objective 1 (BO 1)

- Main objective: Increase growth (Post Weaning weight), carcase traits and fertility
- Secondary objective: Maintain micron and fleece weight

Breeding Objective 2 (BO 2)

- Main objective: Increase fleece weight, growth, carcase traits and fertility
- Secondary objective: Maintain micron

Breeding Objective 3 (BO 3)

- Main objective: Increase fleece weight, increase wool quality, maintain or slightly reduce micron
- Secondary objective: Maintain or slightly increase body weight and fertility

Breeding Objective 4 (BO 4)

- Main objective: Reduce micron and increase wool quality
- Secondary objective: Increase staple strength, fleece weight, body weight and fertility.
- Optional: Reduce worm burdens

Glossary

Raw data is presented as lifetime performance. The ewes were shorn seven times and joined five 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 7 assessments:** **CFW** = Clean Fleece Weight, **FD** = fibre diameter (um), **SL** = staple length (mm), **SS** = staple strength (N/ktex), **FAT** = fat (mm), **EMD** = eye muscle depth (mm), **WT** = pre-joining weight (animals with 5 pre-joining records (kg)
- **WR** = raw number of lambs weaned (for ewes that were joined 5 times)
- **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 (trait name plus “D”).

Sire ID	Sire name	Sire
600571–2013–130087	Billandri Poll, 130087	Billandri, 130087
504792–2011–111424	Bogo, 111424	Bogo, 111424
601449–2013–13V741	Bundaleer Poll, 13V741	Bundaleer, 13V741
504081–2011–111265	Bundilla, 111265	Bundilla, 111265
601250–2012–207316	Centre Plus Poll, 207316	C Plus, 207316
503655–2013–130941	Darriwell, 130941 (Buddha)	Darriwell, 130941
504654–2012–120042	Glenpaen, 120042	Glenpn, 120042
600240–2013–130599	Greenfields Poll, 130599	Grefields, 130599
500383–2011–000043	Hazeldean, 11.43	Hazeld, 11.43
504173–2013–SR5681	Kurra–Wirra, SR5681	Kurra–W, SR5681
600815–2009–090918	Leahcim Poll, 090918	Leahcim, 090918
600815–2012–123153	Leahcim Poll, 123153	Leahcim, 123153
609040–2010–100081	Merinotech WA Poll, 100081	Merinot, 100081
504888–2012–120092	Mokanger, 120092	Mokanger, 120092
504637–2010–100248	Moojepin, 100248	Moojepin, 100248
500063–2013–130389	Mumblebone, 130389	Mumbleb, 130389
500063–2013–130850	Mumblebone, 130850	Mumbleb, 130850
500246–2013–130380	Nareeb Nareeb, 130380	Nareeb, 130380
503298–2013–130467	Nerstane, 130467	Nerst, 130467
503855–2010–100R56	One Oak No. 2, R56	One Oak, R56
504166–2014–140019	Roseville Park, 140019	Roseville P, 140019
504572–2011–ESA004	The Mountain Dam, 11/ESA004	T Mnt Dam, ESA004
601053–2012–121021	Tuckwood Poll, 121021	Tuckw, 121021
501552–2012–120043	Yalgoo, 120043	Yalgoo, 120043
509242–2013–130374	Yiddinga, 130374	Yiddinga, 130374

Overview of Results Presented

The following classer results capture the performance by grade of the 2015 drop Balmoral ewes based on the Professional, AMSEA and Wells Classer Trial 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.

In the Wells Classer Trial section, the tables initially display results at the drop level, then report them for each sire group. There is also a comparison of the changes in classer grade over time.

An appended report (page 39) 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 carcass 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:

- Ewes experienced a very tough start in life at the site.
- Ewes were classed at the end of February, which suits the region's production cycle and gave them plenty of time to recover after lambing
- Wells classing approach doesn't appear to have offered an advantage in selecting for lifetime performance over the Professional and AMSEA class.

Best time to do an early Class (either Post Weaning or Adult) to select for Lifetime Performance:

- Professional – at the second assessment prior to first lamb
- AMSEA – at either the first or second assessment

Classers are selecting for:

- Professional – selecting for CFW, SL, WT, Fat (at times), good colour, good character and good feet/legs
- AMSEA – selecting for CFW, SL, WT, good colour, good character

Impact of ewe's reproduction status on classing:

- Professional – has not impacted results
- AMSEA – has not impacted results

Change over time:

- Results confounded by lost classing results at the second assessment

<p>AMSEA Class – Post Weaning to Adult 2</p> <ul style="list-style-type: none"> • 49% stay in the same grade • 95% stay in the same or change by one grade • 5% of animals change by two grades <p>AMSEA Class – Adult 2 to Adult 3</p> <ul style="list-style-type: none"> • 48% stay in the same grade • 94% Stay in the same or change by one grade • 6% of animals change by two grades 	<p>Professional Class – Post Weaning to Adult 2</p> <ul style="list-style-type: none"> • 39% stay in the same grade • 83% stay in the same or change by one grade • 17% of animals change by two grades <p>Professional Class – Adult 2 and Adult 3</p> <ul style="list-style-type: none"> • 40% stay in the same grade • 92% stay in the same or change by one grade • 8% of animals change by two grades
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Professional Classer Grade Results

Balmoral 2015 Drop – Professional Class – Bill Walker Measured LIFETIME Performance by Grade (Drop Level) –Average Lifetime CFW, FD, SL, SS, WT, EMD, WR, A7 MP+ Index - followed by Average Lifetime Scored Dag, Bdwr, Char, Col, Flrot, Dust, Back, Legs, Face, Spig, Jaw

** Note that at Adult Stage, due to a technical issue, the classing grade for 70 ewes was not recorded.

<i>Age: 7.5m Wool: 7.5m</i>		Raw Data - Average LT Performance									Raw Data - Deviation from Average LT Performance								
Post Weaning Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	2	3.4	17.5	91	30	53	3.4	21	5.0	95	109	0.9	5.7	-2.5	106	0.3	1.6	95	-5.2
Stud	43	3.2	16.8	90	33	52	3.2	21	5.8	105	103	0.2	4.5	0.2	105	0.1	1.0	109	5.3
Seconds	213	3.2	16.7	86	33	50	3.2	20	5.4	101	101	0.1	0.4	-0.1	102	0.0	0.3	103	0.9
Sale	143	3.1	16.5	84	33	49	3.1	20	5.0	98	99	-0.1	-1.0	0.2	98	-0.1	-0.3	95	-2.0
Cull	38	3.0	16.2	81	32	46	3.1	18	4.8	97	96	-0.4	-4.0	-0.6	92	-0.1	-1.8	92	-3.2
Total/Ave	439	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>											<i>14</i>	<i>1.3</i>	<i>9.7</i>	<i>-1.9</i>	<i>15</i>	<i>0.3</i>	<i>3.4</i>	<i>3</i>	<i>-2</i>

<i>Age: 7.5m Wool: 7.5m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Post Weaning Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top	2	1.7	2.2	2.5	2.2	1.6	2.3	1.1	2.1	2.1	2.3	1.2
Stud	43	1.9	2.4	2.4	2.1	1.2	2.3	1.2	2.2	2.6	2.5	1.0
Seconds	213	2.0	2.4	2.7	2.3	1.3	2.5	1.2	2.2	2.8	2.4	1.0
Sale	143	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
Cull	38	2.1	2.6	2.8	2.4	1.4	2.5	1.2	2.4	2.9	2.2	1.0
Total/Ave	439	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		<i>-0.4</i>	<i>-0.4</i>	<i>-0.3</i>	<i>-0.3</i>	<i>0.2</i>	<i>-0.2</i>	<i>-0.1</i>	<i>-0.3</i>	<i>-0.8</i>	<i>0.1</i>	<i>0.1</i>

<i>Age: 19.5m 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	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	22	3.4	16.9	93	33	52	3.1	21	6.1	106	108	0.3	8.3	0.4	105	0.0	0.8	116	6.4
Stud	92	3.1	16.5	88	32	51	3.1	20	5.7	100	99	-0.1	2.6	-0.2	102	0.0	0.3	108	0.6
Seconds	147	3.1	16.6	85	34	50	3.1	20	5.4	101	98	0.0	-0.3	1.0	100	0.0	0.3	103	1.2
Sale	110	3.2	16.5	82	31	48	3.1	19	4.9	99	101	-0.1	-2.7	-1.2	98	0.0	-0.8	92	-1.2
Cull	11	3.1	16.5	78	30	47	2.9	18	4.1	89	97	-0.1	-7.0	-2.9	95	-0.2	-1.5	78	-10.9
Total/Ave	382	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>											<i>10</i>	<i>0.4</i>	<i>15.3</i>	<i>3.3</i>	<i>11</i>	<i>0.2</i>	<i>2.3</i>	<i>38</i>	<i>17</i>

<i>Age: 19.5m Wool: 11m</i>		Raw Data - Average Lifetime Performance - Visual Scores										
Adult 2 Grade**	Count	Dag	Bdwr	Char	Col	Flot	Dust	Back	Legs	Face	Spig	Jaw
Top	22	2.2	2.4	2.4	2.0	1.1	2.3	1.2	2.1	2.7	2.5	1.0
Stud	92	1.9	2.4	2.4	2.1	1.2	2.3	1.2	2.3	2.7	2.5	1.0
Seconds	147	2.0	2.4	2.7	2.3	1.3	2.5	1.2	2.2	2.7	2.5	1.0
Sale	110	1.9	2.5	2.8	2.4	1.5	2.6	1.3	2.3	2.9	2.3	1.0
Cull	11	2.1	2.5	2.7	2.7	1.6	2.4	1.3	2.4	2.9	2.2	1.1
Total/Ave	382	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		<i>0.1</i>	<i>-0.1</i>	<i>-0.3</i>	<i>-0.7</i>	<i>-0.5</i>	<i>-0.1</i>	<i>0.0</i>	<i>-0.4</i>	<i>-0.2</i>	<i>0.3</i>	<i>-0.1</i>

<i>Age: 2.6y 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	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	6	3.5	16.7	92	34	53	3.1	19	5.4	105	110	0.1	7.3	1.1	107	0.0	-0.6	102	5.7
Stud	52	3.2	16.5	87	31	53	3.2	21	5.3	101	103	-0.1	1.8	-1.2	107	0.1	1.0	100	1.5
Seconds	254	3.2	16.6	85	33	50	3.2	20	5.2	100	101	0.0	0.1	0.8	100	0.0	0.3	98	0.4
Sale	100	3.1	16.6	85	32	49	3.1	19	5.5	99	97	0.0	-0.6	-1.1	99	-0.1	-0.7	104	-0.7
Cull	27	2.9	16.5	82	31	45	2.8	17	5.2	94	93	-0.1	-3.6	-1.7	91	-0.3	-2.4	99	-5.4
Total/Ave	439	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>											<i>17</i>	<i>0.2</i>	<i>10.9</i>	<i>2.8</i>	<i>17</i>	<i>0.3</i>	<i>1.7</i>	<i>3</i>	<i>11</i>

<i>Age: 2.6y 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	2.1	2.5	1.9	1.7	1.1	2.1	1.3	2.2	2.6	2.6	1.0
Stud	52	1.9	2.5	2.3	2.0	1.1	2.2	1.2	2.2	2.8	2.4	1.0
Seconds	254	2.0	2.5	2.7	2.2	1.3	2.5	1.2	2.2	2.8	2.4	1.0
Sale	100	1.9	2.4	2.8	2.5	1.4	2.6	1.2	2.4	2.7	2.4	1.0
Cull	27	2.1	2.5	2.8	2.6	1.5	2.5	1.3	2.5	2.9	2.6	1.1
Total/Ave	439	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		<i>0.0</i>	<i>0.0</i>	<i>-0.9</i>	<i>-1.0</i>	<i>-0.4</i>	<i>-0.3</i>	<i>0.0</i>	<i>-0.2</i>	<i>-0.3</i>	<i>0.0</i>	<i>-0.1</i>

<i>Age: 3.6y 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	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	3	3.8	17.4	91	37	54	3.0	21	5.3	112	119	0.8	5.8	4.2	109	-0.1	0.8	101	11.9
Stud	49	3.3	16.6	88	32	52	3.1	20	5.5	104	105	0.0	3.2	-0.6	106	0.0	0.6	105	4.0
Seconds	223	3.1	16.6	86	33	50	3.1	20	5.3	100	100	0.0	0.7	0.5	101	0.0	0.4	100	0.0
Sale	145	3.1	16.7	84	32	48	3.1	19	5.2	99	99	0.1	-1.4	-0.2	98	0.0	-0.5	99	-0.7
Cull	19	2.8	15.8	78	30	46	3.0	18	5.0	94	90	-0.8	-6.8	-2.9	93	-0.1	-1.9	95	-6.2
Total/Ave	439	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>		<i>30</i>	<i>1.6</i>	<i>12.7</i>	<i>7.1</i>	<i>16</i>	<i>0.0</i>	<i>2.8</i>	<i>6</i>	<i>18</i>									

<i>Age: 3.6y 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	3	2.0	2.4	1.6	1.9	1.1	2.0	1.1	2.0	3.0	2.6	1.0
Stud	49	2.1	2.6	2.3	2.1	1.2	2.2	1.3	2.2	2.7	2.5	1.0
Seconds	223	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.2	2.8	2.4	1.0
Sale	145	1.9	2.4	2.8	2.4	1.3	2.6	1.2	2.3	2.8	2.4	1.0
Cull	19	2.0	2.5	2.6	2.4	1.3	2.3	1.2	2.5	2.9	2.2	1.0
Total/Ave	439	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		<i>0.0</i>	<i>-0.1</i>	<i>-1.0</i>	<i>-0.6</i>	<i>-0.2</i>	<i>-0.4</i>	<i>-0.1</i>	<i>-0.5</i>	<i>0.0</i>	<i>0.3</i>	<i>0.0</i>

<i>Age: 4.6y 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	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	3	3.9	17.1	91	35	55	3.1	20	5.0	117	123	0.5	5.8	2.3	110	0.0	0.5	95	16.8
Stud	85	3.3	16.7	88	33	52	3.2	21	5.2	102	106	0.1	2.9	0.2	105	0.1	0.9	98	2.4
Seconds	242	3.1	16.6	85	33	50	3.2	20	5.3	99	100	0.0	0.0	0.0	100	0.0	0.2	100	-0.4
Sale	95	3.0	16.6	83	32	47	3.0	19	5.3	99	96	0.0	-2.0	-0.1	96	-0.1	-1.0	101	-0.9
Cull	14	2.9	16.1	81	32	46	2.9	17	5.6	95	91	-0.5	-4.1	-0.6	93	-0.3	-3.2	106	-4.9
Total/Ave	439	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>											<i>32</i>	<i>1.0</i>	<i>9.8</i>	<i>2.9</i>	<i>17</i>	<i>0.2</i>	<i>3.7</i>	<i>-11</i>	<i>22</i>

<i>Age: 4.6y 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	3	1.8	2.8	2.0	2.3	1.4	2.0	1.3	2.1	3.0	2.8	1.0
Stud	85	2.0	2.5	2.4	2.1	1.3	2.3	1.3	2.1	2.7	2.4	1.0
Seconds	242	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.2	2.8	2.3	1.0
Sale	95	2.0	2.4	2.8	2.4	1.3	2.5	1.2	2.4	2.8	2.5	1.0
Cull	14	2.3	2.6	2.8	2.6	1.3	2.6	1.4	2.7	3.0	2.1	1.0
Total/Ave	439	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		<i>-0.6</i>	<i>0.2</i>	<i>-0.8</i>	<i>-0.3</i>	<i>0.1</i>	<i>-0.5</i>	<i>-0.1</i>	<i>-0.6</i>	<i>0.0</i>	<i>0.7</i>	<i>0.0</i>

<i>Age: 5.6y 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	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	12	3.3	16.6	88	32	54	3.2	20	6.0	102	104	0.0	3.2	-0.6	109	0.1	0.7	114	1.8
Stud	75	3.3	16.6	87	33	52	3.2	21	5.0	102	103	0.0	2.3	0.0	106	0.1	1.3	95	1.9
Seconds	225	3.2	16.7	85	33	50	3.1	20	5.3	100	101	0.1	-0.2	0.3	100	0.0	0.1	101	0.5
Sale	106	3.0	16.5	84	32	48	3.0	19	5.4	98	96	-0.1	-1.0	-0.2	96	-0.1	-0.8	102	-1.3
Cull	21	2.9	16.3	82	31	45	2.8	18	4.9	93	94	-0.3	-2.9	-2.1	91	-0.3	-2.1	92	-6.7
Total/Ave	439	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>											<i>10</i>	<i>0.3</i>	<i>6.1</i>	<i>1.5</i>	<i>17</i>	<i>0.4</i>	<i>2.8</i>	<i>22</i>	<i>8</i>

<i>Age: 5.6y 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	12	1.8	2.2	2.1	2.1	1.2	2.0	1.2	2.1	2.6	2.7	1.0
Stud	75	2.1	2.5	2.4	2.1	1.2	2.3	1.3	2.1	2.7	2.4	1.0
Seconds	225	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.2	2.8	2.3	1.0
Sale	106	1.9	2.4	2.8	2.5	1.3	2.5	1.2	2.4	2.8	2.5	1.0
Cull	21	2.0	2.4	2.6	2.5	1.5	2.4	1.2	2.6	2.9	2.3	1.1
Total/Ave	439	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		-0.1	-0.1	-0.5	-0.4	-0.3	-0.4	0.0	-0.5	-0.3	0.4	-0.1

<i>Age: 6.6y Wool: 12m</i>		Raw Data - Average LT Performance									Raw Data - Deviation from Average LT Performance								
Adult 7 Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	6	3.5	17.1	89	32	59	3.1	21	5.3	105	111	0.5	3.7	-0.2	118	0.0	1.0	101	4.8
Stud	78	3.2	16.6	87	33	52	3.2	20	5.3	99	102	0.1	1.5	0.1	104	0.1	0.7	100	-1.0
Seconds	218	3.1	16.5	85	33	49	3.1	20	5.3	100	100	-0.1	-0.4	-0.1	100	0.0	-0.1	100	0.5
Sale	116	3.1	16.7	85	33	49	3.1	20	5.3	100	98	0.1	-0.6	0.2	98	0.0	-0.2	100	-0.1
Cull	18	3.2	16.6	86	31	47	2.9	20	5.3	97	102	0.0	0.4	-1.3	95	-0.3	0.0	100	-3.0
Total/Ave	436	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>											9	0.5	3.4	1.1	23	0.3	1.0	1	8

<i>Age: 6.6y Wool: 12m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Adult 7 Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top	6	2.1	2.6	2.2	1.8	1.1	2.3	1.2	2.2	2.9	2.1	1.0
Stud	78	2.0	2.4	2.4	2.2	1.3	2.3	1.2	2.1	2.7	2.4	1.0
Seconds	218	1.9	2.5	2.7	2.2	1.3	2.5	1.2	2.2	2.8	2.4	1.0
Sale	116	2.1	2.4	2.9	2.5	1.3	2.6	1.2	2.4	2.8	2.4	1.0
Cull	18	2.0	2.6	2.7	2.5	1.5	2.5	1.3	2.5	2.9	2.4	1.0
Total/Ave	436	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		0.1	0.0	-0.6	-0.8	-0.3	-0.3	-0.1	-0.3	-0.1	-0.4	0.0

Balmoral 2015 Drop – Professional Grade Change Between Grade & Next Grade – Bill Walker

	Grade	Adult 2**					
		Top	Stud	2nd	Sale	Cull	Total
Post Weaning	Top	1	1				2
	Stud	11	16	11	2		40
	2nd	8	44	85	48	3	188
	Sale	2	29	41	42	4	118
	Cull		2	10	18	4	34
	Total	22	92	147	110	11	382
		39% stayed in the same grade					
	Grade	Adult 3					
		Top	Stud	2nd	Sale	Cull	Total
Adult 2**	Top	3	7	10	2		22
	Stud	3	22	50	14	3	92
	2nd		18	89	32	8	147
	Sale		1	61	36	12	110
	Cull		1	3	3	4	11
	Total	6	49	213	87	27	382
		40% stayed the same grade					
	Grade	Adult 4					
		Top	Stud	2nd	Sale	Cull	Total
Adult 3	Top	1	4	1			6
	Stud	2	20	20	9	1	52
	2nd		18	154	77	5	254
	Sale		6	43	43	8	100
	Cull		1	5	16	5	27
	Total	3	49	223	145	19	439
		51% stayed the same					
	Grade	Adult 5					
		Top	Stud	2nd	Sale	Cull	Total
Adult 4	Top	2	1				3
	Stud		28	18	3		49
	2nd	1	45	142	33	2	223
	Sale		11	78	50	6	145
	Cull			4	9	6	19
	Total	3	85	242	95	14	439
		52% stayed the same					
	Grade	Adult 6					
		Top	Stud	2 nd	Sale	Cull	Total
Adult 5	Top		2	1			3
	Stud	4	32	39	7	2	84
	2nd	2	37	132	62	8	241
	Sale		6	44	38	6	94
	Cull		1	2	9	2	14
	Total	6	78	218	116	18	436
		47% stayed the same					

	Grade	Adult 7					
		Top	Stud	2nd	Sale	Cull	Total
Adult 6	Top	1	6	4	1		12
	Stud	3	30	32	7	2	74
	2nd	2	34	133	52	3	224
	Sale		7	45	49	4	105
	Cull		1	4	7	9	21
	Total	6	78	218	116	18	436
		51% stayed the same					

** Note that at Adult 2 Stage, due to a technical issue, the classing grade for 70 ewes was not captured.

Balmoral 2015 Drop – Professional Grade Change Between Grade & Adult 7 Grade –Bill Walker

	Grade	Adult 7					
		Top	Stud	2nd	Sale	Cull	Total
Post Weaning	Top			1		1	2
	Stud	3	14	17	8	1	43
	2nd	1	42	113	49	7	212
	Sale	2	21	68	47	3	141
	Cull		1	19	12	6	38
	Total	6	78	218	116	18	436
41% stayed the same							
	Grade	Adult 7					
		Top	Stud	2nd	Sale	Cull	Total
Adult 2**	Top	1	10	8	2		21
	Stud	2	26	36	24	4	92
	2nd	2	24	80	39	2	147
	Sale	1	8	55	37	8	109
	Cull			5	5	1	11
	Total	6	68	184	107	15	380
38% stayed the same							
	Grade	Adult 7					
		Top	Stud	2nd	Sale	Cull	Total
Adult 3	Top		3	1	1		5
	Stud	4	16	23	7	2	52
	2nd	2	46	139	61	5	253
	Sale		13	45	36	6	100
	Cull			10	11	5	26
	Total	6	78	218	116	18	436
45% stayed the same							
	Grade	Adult 7					
		Top	Stud	2nd	Sale	Cull	Total
Adult 4	Top	1	2				3
	Stud	4	17	19	7	1	48
	2nd		47	119	47	9	222
	Sale	1	11	74	55	3	144
	Cull		1	6	7	5	19
	Total	6	78	218	116	18	436
45% stayed the same							
	Grade	Adult 7					
		Top	Stud	2nd	Sale	Cull	Total
Adult 5	Top		2	1			3
	Stud	4	32	39	7	2	84
	2nd	2	37	132	62	8	241
	Sale		6	44	38	6	94
	Cull		1	2	9	2	14
	Total	6	78	218	116	18	436
47% stayed the same							

	Grade	Adult 7					
		Top	Stud	2nd	Sale	Cull	Total
Adult 6	Top	1	6	4	1		12
	Stud	3	30	32	7	2	74
	2nd	2	34	133	52	3	224
	Sale		7	45	49	4	105
	Cull		1	4	7	9	21
	Total	6	78	218	116	18	436
51% stayed the same							

** Note that at Adult 2 Stage, due to a technical issue, the classing grade for 70 ewes was not captured.

AMSEA Classer Grade Results

Balmoral 2015 Drop – AMSEA Grade – David Whyte Measured LIFETIME Performance by Grade – Ave Lifetime CFW, FD, SL, SS, WT, EMD, WR, A7 MP+ Index followed by Average LT Visual Traits - followed by Average Lifetime Scored Dag, Bdwr, Char, Col, Flrot, Dust, Back, Legs, Face, Spig, Jaw

<i>Age: 7.5m Wool: 7.5m</i>		Raw Data - Average LT Performance									Raw Data - Deviation from Average LT Performance								
Post Weaning Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	120	3.3	16.7	87	33	51	3.1	20	5.5	104	105	0.1	1.7	0.2	104	0.0	0.4	105	4.4
Flock	201	3.1	16.6	85	33	49	3.1	20	5.2	98	99	0.0	0.1	0.1	99	0.0	0.0	99	-1.9
Cull	118	3.1	16.5	83	32	48	3.1	19	5.1	98	97	-0.1	-1.9	-0.5	97	0.0	-0.4	98	-1.3
Total/Ave	439	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>											7	0.2	3.6	0.7	7	0.0	0.8	7	6

<i>Age: 7.5m Wool: 7.5m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Post Weaning Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top	120	2.0	2.6	2.6	2.2	1.2	2.4	1.3	2.2	2.8	2.4	1.0
Flock	201	2.0	2.4	2.7	2.3	1.3	2.5	1.2	2.2	2.8	2.4	1.0
Cull	118	2.0	2.4	2.7	2.4	1.4	2.5	1.2	2.3	2.8	2.4	1.0
Total/Ave	439	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		0.0	0.1	-0.1	-0.3	-0.2	-0.1	0.0	-0.2	0.0	0.0	0.0

<i>Age: 19.5m 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	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	117	3.3	16.7	90	34	50	3.1	20	5.6	103	104	0.1	4.4	1.2	101	0.0	-0.3	105	3.5
Flock	240	3.1	16.5	84	33	50	3.1	20	5.3	99	99	-0.1	-0.8	0.0	100	0.0	0.0	100	-0.5
Cull	82	3.1	16.6	81	31	49	3.2	20	4.9	96	98	0.0	-3.8	-1.6	99	0.1	0.5	92	-3.6
Total/Ave	439	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>											6	0.2	8.2	2.8	2	-0.1	-0.7	13	7

<i>Age: 19.5m 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
Top	117	2.1	2.6	2.6	2.1	1.1	2.4	1.2	2.2	2.7	2.4	1.0
Flock	240	1.9	2.4	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
Cull	82	1.9	2.3	2.8	2.6	1.6	2.6	1.2	2.2	2.8	2.4	1.0
Total/Ave	439	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		<i>0.2</i>	<i>0.2</i>	<i>-0.2</i>	<i>-0.5</i>	<i>-0.5</i>	<i>-0.2</i>	<i>0.0</i>	<i>0.0</i>	<i>-0.1</i>	<i>0.1</i>	<i>0.0</i>

<i>Age: 2.6y 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	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	86	3.4	16.5	86	34	51	3.0	19	5.3	103	107	-0.1	1.0	1.0	102	-0.1	-0.4	101	3.6
Flock	206	3.2	16.7	86	33	50	3.2	20	5.2	100	101	0.1	0.7	0.6	100	0.0	0.3	98	0.4
Cull	146	3.0	16.5	84	31	49	3.1	20	5.4	97	94	-0.1	-1.5	-1.5	98	0.0	-0.1	102	-2.7
Total/Ave	438	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>		<i>12</i>	<i>0.0</i>	<i>2.5</i>	<i>2.5</i>	<i>4</i>	<i>-0.1</i>	<i>-0.2</i>	<i>-1</i>	<i>6</i>									

<i>Age: 2.6y 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	86	2.1	2.7	2.4	2.0	1.2	2.2	1.2	2.2	2.8	2.4	1.0
Flock	206	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.2	2.8	2.4	1.0
Cull	146	1.9	2.3	2.8	2.5	1.4	2.6	1.2	2.3	2.7	2.4	1.0
Total/Ave	438	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		<i>0.2</i>	<i>0.5</i>	<i>-0.4</i>	<i>-0.6</i>	<i>-0.3</i>	<i>-0.4</i>	<i>0.0</i>	<i>-0.1</i>	<i>0.1</i>	<i>0.0</i>	<i>0.0</i>

<i>Age: 3.6y 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	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	100	3.4	16.6	88	33	50	3.0	19	5.1	103	100	0.1	0.4	0.2	100	-0.1	0.3	102	0.5
Flock	247	3.1	16.7	86	33	50	3.1	20	5.4	100	92	-0.2	-3.9	-1.4	99	0.0	-0.3	99	-4.7
Cull	92	2.9	16.4	81	31	49	3.2	20	5.2	95	100	0.0	0.0	0.0	100	0.1	0.0	100	0.0
Total/Ave	439	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>		<i>0</i>	<i>0.1</i>	<i>0.4</i>	<i>0.2</i>	<i>0</i>	<i>-0.2</i>	<i>0.3</i>	<i>2</i>	<i>1</i>									

<i>Age: 3.6y 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	100	2.1	2.6	2.4	2.1	1.2	2.3	1.3	2.2	2.8	2.4	1.0
Flock	247	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
Cull	92	1.9	2.3	2.9	2.6	1.4	2.7	1.2	2.3	2.8	2.4	1.0
Total/Ave	439	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		<i>0.1</i>	<i>0.4</i>	<i>-0.4</i>	<i>-0.5</i>	<i>-0.2</i>	<i>-0.4</i>	<i>0.1</i>	<i>0.0</i>	<i>0.0</i>	<i>0.1</i>	<i>0.0</i>

<i>Age: 4.6y 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	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	113	3.4	16.7	87	33	51	3.0	20	5.2	103	100	0.0	0.4	0.0	100	-0.1	0.1	100	0.3
Flock	212	3.2	16.6	85	33	50	3.1	20	5.3	100	93	-0.1	-3.0	-0.6	98	0.0	0.0	100	-3.3
Cull	113	2.9	16.5	82	32	48	3.2	20	5.3	96	100	0.0	0.0	0.0	100	0.1	0.0	100	0.0
Total/Ave	439	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>		<i>0</i>	<i>0.0</i>	<i>0.4</i>	<i>0.0</i>	<i>0</i>	<i>-0.1</i>	<i>0.1</i>	<i>0</i>	<i>0</i>									

<i>Age: 4.6y 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	113	2.1	2.6	2.4	2.1	1.2	2.3	1.3	2.1	2.8	2.4	1.0
Flock	212	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
Cull	113	2.0	2.3	2.8	2.6	1.4	2.6	1.2	2.4	2.8	2.4	1.0
Total/Ave	439	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		<i>0.1</i>	<i>0.3</i>	<i>-0.4</i>	<i>-0.5</i>	<i>-0.1</i>	<i>-0.3</i>	<i>0.0</i>	<i>-0.2</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>

<i>Age: 5.6y 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	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	118	3.3	16.5	87	33	51	3.1	20	5.2	102	105	0.0	2.2	0.2	103	-0.1	-0.3	98	2.6
Flock	201	3.2	16.6	85	33	49	3.1	20	5.4	101	101	0.1	-0.3	0.5	99	0.0	0.0	103	1.3
Cull	120	2.9	16.5	83	32	49	3.2	20	5.1	95	93	0.0	-1.7	-1.1	98	0.1	0.3	96	-4.7
Total/Ave	439	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>		<i>11</i>	<i>0.0</i>	<i>3.9</i>	<i>1.2</i>	<i>4</i>	<i>-0.2</i>	<i>-0.5</i>	<i>2</i>	<i>7</i>									

<i>Age: 5.6y 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	118	2.0	2.5	2.4	2.1	1.2	2.3	1.2	2.2	2.8	2.4	1.0
Flock	201	1.9	2.5	2.7	2.2	1.3	2.5	1.3	2.2	2.8	2.4	1.0
Cull	120	2.0	2.3	2.9	2.6	1.4	2.6	1.2	2.3	2.8	2.4	1.1
Total/Ave	439	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		<i>0.0</i>	<i>0.2</i>	<i>-0.5</i>	<i>-0.6</i>	<i>-0.3</i>	<i>-0.3</i>	<i>0.0</i>	<i>-0.1</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>

<i>Age: 6.6y Wool: 12m</i>		Raw Data - Average LT Performance									Raw Data - Deviation from Average LT Performance								
Adult 7 Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	MP+	CFW%	FDD	SLD	SSD	WT%	FATD	EMDD	WR%	MP+D
Top	111	3.3	16.5	87	32	51	3.0	20	5.2	102	105	-0.1	1.6	-0.1	102	-0.1	0.1	98	2.0
Flock	217	3.1	16.6	85	33	49	3.2	20	5.4	100	100	0.0	-0.4	0.4	100	0.0	0.0	102	0.7
Cull	110	3.0	16.6	84	32	49	3.2	20	5.2	96	96	0.0	-0.8	-0.7	99	0.1	-0.2	98	-3.3
Total/Ave	438	3.2	16.6	85	33	50	3.1	20	5.3	100	3.2	16.6	85	33	50	3.1	20	5.3	100
<i>Diff Top to Bottom</i>		<i>10</i>	<i>-0.1</i>	<i>2.4</i>	<i>0.6</i>	<i>4</i>	<i>-0.2</i>	<i>0.3</i>	<i>1</i>	<i>5</i>									

<i>Age: 6.6y Wool: 12m</i>		Raw Data – Average Lifetime Performance – Visual Scores										
Adult 7 Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top	111	2.0	2.6	2.4	2.1	1.2	2.3	1.2	2.1	2.8	2.4	1.0
Flock	217	2.0	2.5	2.7	2.2	1.3	2.5	1.2	2.2	2.8	2.3	1.0
Cull	110	2.1	2.3	2.9	2.6	1.4	2.6	1.2	2.4	2.7	2.6	1.0
Total/Ave	438	2.0	2.5	2.7	2.3	1.3	2.5	1.2	2.3	2.8	2.4	1.0
<i>Diff Top to Bottom</i>		<i>-0.1</i>	<i>0.3</i>	<i>-0.6</i>	<i>-0.5</i>	<i>-0.1</i>	<i>-0.3</i>	<i>0.0</i>	<i>-0.2</i>	<i>0.0</i>	<i>-0.2</i>	<i>0.0</i>

Balmoral 2015 Drop – AMSEA Grade Change
Over Time – David Whyte

		Adult 2			
		Top	Flock	Cull	Total
Post Weaning	Grade				
	Top	58	52	10	120
	Flock	48	120	33	201
	Cull	11	68	39	118
	Total	117	240	82	439
49% stayed the same					

Balmoral 2015 Drop – AMSEA Grade Change
Between Grade & Adult 7 – David Whyte

		Adult 7			
		Top	Flock	Cull	Total
Post Weaning	Grade				
	Top	39	60	21	120
	Flock	48	106	47	201
	Cull	24	51	42	117
	Total	111	217	110	438
43% stayed the same					

		Adult 3			
		Top	Flock	Cull	Total
Adult 2	Grade				
	Top	43	52	21	116
	Flock	39	122	79	240
	Cull	4	32	46	82
	Total	86	206	146	438
48% stayed the same					

		Adult 7			
		Top	Flock	Cull	Total
Adult 2	Grade				
	Top	47	53	17	117
	Flock	52	122	65	239
	Cull	12	42	28	82
	Total	111	217	110	438
45% stayed the same					

		Adult 4			
		Top	Flock	Cull	Total
Adult 3	Grade				
	Top	48	36	2	86
	Flock	39	139	28	206
	Cull	13	71	62	146
	Total	100	246	92	438
57% stayed the same					

		Adult 7			
		Top	Flock	Cull	Total
Adult 3	Grade				
	Top	39	36	11	86
	Flock	51	114	40	205
	Cull	20	67	59	146
	Total	110	217	110	437
49% stayed the same					

		Adult 5			
		Top	Flock	Cull	Total
Adult 4	Grade				
	Top	53	42	5	100
	Flock	57	133	56	246
	Cull	3	37	52	92
	Total	113	212	113	438
54% stayed the same					

		Adult 7			
		Top	Flock	Cull	Total
Adult 4	Grade				
	Top	44	43	13	100
	Flock	58	127	61	246
	Cull	9	47	36	92
	Total	111	217	110	438
47% stayed the same					

		Adult 6			
		Top	Flock	Cull	Total
Adult 5	Grade				
	Top	55	51	7	113
	Flock	57	109	46	212
	Cull	6	40	67	113
	Total	118	200	120	438
53% stayed the same					

		Adult 7			
		Top	Flock	Cull	Total
Adult 5	Grade				
	Top	60	43	10	113
	Flock	40	125	46	211
	Cull	10	49	54	113
	Total	110	217	110	437
55% stayed the same					

		Adult 7			
		Top	Flock	Cull	Total
Adult 6	Grade				
	Top	58	48	12	118
	Flock	47	121	32	200
	Cull	6	48	66	120
	Total	111	217	110	438
56% stayed the same					

		Adult 7			
		Top	Flock	Cull	Total
Adult 6	Grade				
	Top	58	48	12	118
	Flock	47	121	32	200
	Cull	6	48	66	120
	Total	111	217	110	438
56% stayed the same					

Wells Classer Trial

Balmoral 2015 Drop – Wells Classer Trial – Bill Walker Measured LIFETIME Performance by Grade at P, A and A7 (Drop Level)

	Post Weaning Class Average LT Performance /A7 MP+ Index by Grade									Adult Class Average LT Performance /A7 MP+ Index by Grade									Adult 7 Class Average LT Performance /A7 MP+ Index by Grade								
	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+
Tops	34	3.2	16.6	89	33	51	21	5.7	101	50	3.3	16.8	89	34	52	21	6.2	104	66	3.3	16.6	88	33	52	20	5.3	102
Seconds	89	3.2	16.8	87	33	52	20	5.8	103	125	3.1	16.7	86	32	51	21	5.5	100	88	3.1	16.5	85	32	50	20	5.4	100
Sales	134	3.2	16.7	85	33	51	20	5.1	99	132	3.1	16.6	84	33	49	20	5.0	98	139	3.2	16.6	85	33	49	20	5.1	100
Culls	180	3.1	16.4	84	32	49	19	5.1	98	132	3.1	16.4	84	32	48	19	4.9	99	142	3.1	16.6	84	32	48	19	5.3	99
Total / Ave	437	3.2	16.6	85	33	50	20	5.3	100	439	3.2	16.6	85	33	50	20	5.3	100	435	3.2	16.6	85	33	50	20	5.3	100

Balmoral 2015 Drop – Wells Classer Trial – Bill Walker Measured LIFETIME Performance by Grade at Post Weaning, Adult and Adult 7 (By Sire)

Sire	Post Weaning Class Average LT Performance /A7 MP+ Index by Grade									Adult Class Average LT Performance /A7 MP+ Index by Grade									Adult 7 Class Average LT Performance /A7 MP+ Index by Grade								
	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+
Billandri, 130087	12	3.6	17.7	91	32	49	19	5.9	113	12	3.6	17.7	91	32	49	19	5.9	113	12	3.6	17.7	91	32	49	19	5.9	113
Tops	2	3.2	17.9	93	33	51	19	7.0	108	3	3.3	17.8	92	32	52	20	7.0	107	3	3.6	17.6	95	30	48	15	7.0	115
Seconds	5	3.8	17.8	92	30	49	18	5.8	115	3	3.6	18.3	92	38	50	19	5.0	112	2	3.6	17.9	89	39	45	18	4.5	113
Sales	3	3.6	17.8	90	39	48	21	4.7	110	2	3.7	17.0	85	31	51	20	5.5	120	3	3.6	18.0	89	33	52	21	6.0	110
Culls	2	3.4	16.7	89	28	51	21	7.0	119	4	3.6	17.4	93	29	47	18	6.0	115	4	3.5	17.3	90	30	51	22	5.8	115
Bogo, 111424	19	3.1	15.6	85	29	47	20	5.6	101	19	3.1	15.6	85	29	47	20	5.6	101	19	3.1	15.6	85	29	47	20	5.6	101
Tops	2	3.3	15.2	88	31	47	20	5.5	110	1	3.3	15.3	90	28	46	18	7.0	114	3	3.3	15.9	88	28	49	21	6.0	105
Seconds	3	3.0	16.0	91	31	47	19	7.7	104	7	3.0	15.8	86	29	46	20	5.9	98	4	3.0	16.1	84	30	46	21	6.0	99
Sales	6	2.9	15.9	83	31	47	22	4.7	92	6	3.0	15.5	84	31	48	21	5.2	100	6	3.1	15.1	81	27	46	19	5.2	104
Culls	8	3.1	15.3	83	27	47	19	5.6	105	5	3.1	15.4	82	28	47	20	5.6	104	6	2.9	15.6	87	31	47	21	5.7	98
Bundaleer, 13V741	27	3.1	16.5	81	34	51	20	4.8	96	28	3.1	16.5	81	34	51	20	4.8	96	28	3.1	16.5	81	34	51	20	4.8	96
Tops	4	3.1	15.9	82	35	54	22	5.3	101	3	3.3	16.4	86	37	52	22	5.3	102	3	3.5	16.4	87	37	54	19	4.0	101
Seconds	5	3.5	17.2	83	39	51	21	4.0	100	8	3.0	16.2	82	33	52	21	5.3	96	6	3.1	16.1	81	35	53	22	4.3	97
Sales	11	2.9	16.4	81	34	51	21	5.2	96	10	3.1	16.7	80	36	53	21	4.0	95	9	3.1	16.7	82	34	50	21	5.0	97
Culls	7	2.9	16.5	79	31	49	19	4.4	90	7	3.0	16.6	81	31	48	19	5.1	95	10	2.9	16.6	79	33	50	19	5.1	93
Bundilla, 111265	16	3.2	16.9	80	34	54	22	5.7	111	16	3.2	16.9	80	34	54	22	5.7	111	16	3.2	16.9	80	34	54	22	5.7	111
Tops	2	2.9	15.7	81	36	53	22	5.0	110	2	3.4	17.3	83	34	60	24	6.0	112	3	3.3	17.4	86	34	53	24	6.3	109
Seconds	4	3.2	17.2	83	32	57	24	6.0	107	2	3.1	16.1	77	37	54	19	7.0	117	3	3.1	16.7	80	37	54	20	7.0	115
Sales	7	3.4	17.2	80	34	55	22	5.9	115	7	3.1	16.9	80	33	54	21	6.3	110	5	3.1	16.3	78	30	54	22	4.4	107
Culls	3	2.8	16.5	77	34	50	19	5.3	106	5	3.3	17.1	81	33	53	24	4.2	109	5	3.3	17.3	79	35	56	22	5.8	112
C Plus, 207316	18	3.0	16.0	87	33	46	18	5.5	103	18	3.0	16.0	87	33	46	18	5.5	103	18	3.0	16.0	87	33	46	18	5.5	103
Tops	2	3.0	15.6	83	35	47	20	5.0	107	1	2.8	15.8	83	36	54	23	9.0	110	3	3.2	16.2	84	34	50	21	5.7	104
Seconds	2	3.1	16.2	89	31	50	18	6.5	113	4	2.8	16.1	89	34	47	18	5.8	105	2	2.9	15.6	83	38	48	19	5.5	107
Sales	1	2.9	15.3	86	29	46	15	3.0	97	6	2.9	16.4	88	34	44	17	5.8	97	7	2.8	16.2	90	32	46	19	6.1	103
Culls	13	2.9	16.1	87	34	45	18	5.6	102	7	3.1	15.6	85	33	47	19	4.6	106	6	3.0	15.8	86	33	44	15	4.7	101
Darriwell, 130941	10	3.6	17.3	80	35	51	19	4.9	109	10	3.6	17.3	80	35	51	19	4.9	109	10	3.6	17.3	80	35	51	19	4.9	109
Tops	1	3.8	18.1	83	29	48	13	7.0	102	1	3.8	18.1	83	29	48	13	7.0	102	1	4.2	17.1	84	33	59	24	1.0	105
Seconds	2	3.5	16.7	79	36	48	19	6.5	120	4	3.5	17.1	81	39	49	20	4.8	110	3	3.6	17.3	80	31	51	18	6.0	109
Sales	3	3.7	17.0	82	37	52	20	4.0	108	2	3.8	16.7	83	32	54	21	4.5	113	3	3.6	17.2	79	35	50	20	6.3	115
Culls	4	3.6	17.6	78	35	51	21	4.3	107	3	3.7	17.8	75	35	50	20	4.7	109	3	3.5	17.5	80	40	48	18	3.7	106

Sire	Post Weaning Class Average LT Performance /A7 MP+ Index by Grade									Adult Class Average LT Performance /A7 MP+ Index by Grade									Adult 7 Class Average LT Performance /A7 MP+ Index by Grade								
	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+
Glenpn, 120042	8	3.4	16.0	83	31	52	18	4.0	97	9	3.4	16.0	83	31	52	18	4.0	97	9	3.4	16.0	83	31	52	18	4.0	97
Tops										1	3.6	15.7	88	33	53	19	3.0	105	1	3.6	15.7	88	33	53	19	3.0	105
Seconds	2	3.3	16.2	83	34	54	18	5.0	100	3	3.2	15.7	81	32	55	21	5.3	97	2	3.4	15.6	79	32	53	19	3.5	95
Sales	2	3.4	16.3	88	29	51	18	3.5	98	2	3.7	16.1	82	33	48	15	2.5	99	3	3.4	16.4	85	34	53	20	4.7	96
Culls	4	3.3	15.7	79	30	50	16	4.0	95	3	3.2	16.4	83	28	50	16	4.0	94	3	3.3	16.1	81	28	48	14	4.0	97
Grefields, 130599	15	3.3	16.6	85	31	46	18	5.7	113	15	3.3	16.6	85	31	46	18	5.7	113	14	3.3	16.6	85	31	46	18	5.7	113
Tops	1	3.3	16.8	85	36	48	18	7.0	118										3	3.5	16.9	96	33	46	17	5.3	115
Seconds	2	3.4	16.1	91	30	48	18	6.5	114	7	3.2	16.5	87	31	46	17	6.1	114	2	3.0	16.1	82	30	44	18	6.0	110
Sales	5	3.4	16.9	89	29	46	18	5.4	114	4	3.5	17.2	87	33	46	19	5.8	113	5	3.3	16.7	81	32	47	18	4.8	110
Culls	7	3.2	16.6	81	32	45	17	5.6	111	4	3.2	16.5	80	30	46	17	5.0	110	4	3.3	16.5	84	31	45	17	6.8	115
Hazeld, 11.43	21	3.4	16.7	87	33	52	21	5.0	107	21	3.4	16.7	87	33	52	21	5.0	107	21	3.4	16.7	87	33	52	21	5.0	107
Tops	1	3.1	17.0	88	37	51	22	7.0	103	2	3.6	16.4	93	35	51	21	5.0	115	3	3.3	16.9	92	37	57	24	5.3	106
Seconds	2	3.7	17.6	87	30	51	19	3.0	101	8	3.4	16.8	87	33	52	20	6.0	107	4	3.4	16.5	83	29	54	21	4.5	109
Sales	7	3.6	16.7	86	30	50	21	5.1	110	4	3.3	16.9	87	32	55	23	5.0	107	7	3.4	16.8	86	33	51	20	4.7	104
Culls	11	3.3	16.5	87	35	53	21	5.2	106	7	3.4	16.5	85	33	50	20	4.0	103	7	3.5	16.6	88	34	49	20	5.6	108
Kurra-W, SR5681	16	3.2	17.0	84	36	45	20	5.2	94	16	3.2	17.0	84	36	45	20	5.2	94	16	3.2	17.0	84	36	45	20	5.2	94
Tops	3	3.1	16.7	82	34	45	21	5.0	94	2	3.0	17.4	80	41	51	23	5.5	94	3	3.2	17.2	82	37	49	22	5.0	92
Seconds	1	3.1	17.6	80	45	53	23	7.0	97	2	3.5	17.0	83	32	47	23	5.0	98	3	3.1	16.8	85	33	44	18	5.3	93
Sales	2	3.1	16.7	79	38	42	18	6.5	99	5	2.9	16.9	84	35	44	19	5.2	89	5	3.3	17.3	86	36	44	20	4.4	93
Culls	10	3.3	17.2	85	35	45	19	4.8	92	7	3.4	17.0	85	37	43	18	5.1	96	5	3.1	16.8	82	38	45	18	6.0	95
Leahcim, 090918	21	3.1	17.2	88	32	51	21	5.0	85	21	3.1	17.2	88	32	51	21	5.0	85	21	3.1	17.2	88	32	51	21	5.0	85
Tops	2	3.5	17.5	96	38	54	21	5.5	91	3	3.5	17.7	93	35	56	21	5.3	89	2	3.4	18.4	91	34	60	24	5.5	84
Seconds	4	2.9	17.7	90	30	53	20	5.8	82	6	3.0	17.2	91	31	54	22	5.5	85	5	3.3	17.6	90	31	52	21	6.0	89
Sales	7	3.2	17.3	88	32	51	21	4.9	88	7	3.1	17.3	87	32	49	19	4.6	85	7	3.1	17.0	90	33	52	20	4.7	84
Culls	8	2.9	16.9	85	30	48	21	4.6	82	5	2.9	16.9	85	30	46	21	4.8	83	7	2.8	16.9	84	31	46	20	4.4	83
Leahcim, 123153	21	2.9	16.7	88	29	49	22	4.5	77	21	2.9	16.7	88	29	49	22	4.5	77	21	2.9	16.7	88	29	49	22	4.5	77
Tops	5	3.3	17.0	95	32	50	21	5.0	87	3	3.6	17.1	97	33	50	20	5.7	95	3	2.9	16.3	87	28	53	24	5.0	77
Seconds	3	2.9	16.9	87	29	49	22	4.7	78	6	2.6	16.8	87	32	51	23	4.2	71	4	3.0	16.8	88	31	49	21	4.5	79
Sales	8	2.6	16.6	86	28	51	23	4.0	71	5	2.8	16.8	87	29	51	23	3.8	71	7	2.9	16.6	89	30	49	22	4.3	77
Culls	5	2.8	16.3	87	28	46	21	4.8	75	7	2.7	16.3	87	25	47	22	4.9	78	7	2.8	16.8	89	27	49	22	4.6	74

Sire	Post Weaning Class Average LT Performance /A7 MP+ Index by Grade									Adult Class Average LT Performance /A7 MP+ Index by Grade									Adult 7 Class Average LT Performance /A7 MP+ Index by Grade								
	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+
Merinot, 100081	19	3.0	16.6	86	36	50	22	4.9	102	19	3.0	16.6	86	36	50	22	4.9	102	19	3.0	16.6	86	36	50	22	4.9	102
Tops	1	3.1	17.6	90	30	53	24	4.0	90	2	3.1	16.5	81	38	52	20	7.0	106	3	3.2	17.0	87	35	53	22	6.3	105
Seconds	4	3.1	17.0	93	33	50	22	5.0	103	5	3.1	17.1	88	33	52	23	4.6	101	4	2.9	16.6	87	38	52	23	4.3	100
Sales	6	3.2	17.0	82	36	54	23	3.8	103	6	3.0	16.8	84	36	52	22	4.2	101	6	3.0	16.6	85	34	50	22	3.5	99
Culls	8	2.8	16.0	84	37	47	21	5.8	103	6	2.9	16.0	88	37	47	21	5.2	104	6	3.0	16.4	86	36	48	21	6.0	106
Mokanger, 120092	14	3.5	16.8	78	38	50	21	4.6	102	14	3.5	16.8	78	38	50	21	4.6	102	13	3.5	16.8	78	38	50	21	4.6	102
Tops										3	3.4	17.4	82	41	46	21	5.7	100	2	3.4	16.2	78	33	51	21	3.5	100
Seconds	2	3.3	17.8	85	43	46	22	6.0	98	2	3.2	17.2	77	40	49	23	4.5	101	3	3.6	17.2	83	39	51	22	4.7	101
Sales	2	4.0	16.7	79	36	53	19	3.0	105	5	3.4	16.5	77	35	50	21	4.0	100	4	3.5	17.1	76	42	50	22	5.3	103
Culls	10	3.4	16.6	77	37	51	21	4.6	102	4	3.8	16.6	77	38	54	21	4.5	107	4	3.5	16.7	76	36	51	20	4.8	104
Moojepin, 100248	19	2.8	17.1	92	31	55	23	6.2	105	19	2.8	17.1	92	31	55	23	6.2	105	19	2.8	17.1	92	31	55	23	6.2	105
Tops	2	2.9	17.1	95	32	52	22	6.5	104	3	2.5	16.8	93	31	62	24	7.0	105	3	3.1	16.9	90	33	57	24	6.3	113
Seconds	7	2.8	17.1	92	30	58	23	6.6	105	7	2.8	17.2	92	32	55	24	6.4	103	4	2.7	16.7	93	30	55	23	6.8	105
Sales	4	2.9	17.9	95	35	54	24	6.3	103	5	2.9	17.6	96	32	51	23	6.0	104	6	2.8	17.5	92	32	57	24	6.0	102
Culls	6	2.8	16.6	88	29	52	24	5.7	106	4	3.0	16.4	86	27	52	24	5.5	107	6	2.8	17.0	91	30	51	23	6.0	103
Mumbleb, 130389	10	3.0	17.0	87	31	47	21	5.8	88	10	3.0	17.0	87	31	47	21	5.8	88	10	3.0	17.0	87	31	47	21	5.8	88
Tops										1	3.3	16.7	93	41	48	19	8.0	100	2	2.9	17.1	86	33	49	23	5.0	88
Seconds	2	3.4	17.3	91	35	49	21	8.5	99	3	3.3	17.8	88	33	47	20	6.3	92	2	2.9	16.2	83	25	44	22	6.0	89
Sales	3	2.8	16.8	85	32	46	23	6.0	92	4	2.8	16.8	85	30	47	22	5.3	84	3	3.0	17.3	83	29	50	22	5.7	83
Culls	5	2.9	17.1	86	30	48	21	4.6	81	2	2.7	16.5	85	26	48	22	5.0	82	3	3.1	17.3	93	36	46	19	6.3	92
Mumbleb, 130850	13	3.0	17.1	91	32	52	22	7.0	106	13	3.0	17.1	91	32	52	22	7.0	106	12	3.0	17.1	91	32	52	22	7.0	106
Tops	3	2.9	17.2	95	31	52	22	7.3	109	3	3.1	17.2	100	31	53	22	7.3	108	2	3.4	17.1	95	31	53	22	7.5	112
Seconds	5	3.0	16.9	91	30	52	22	8.4	107	5	2.8	17.2	88	31	51	21	7.6	105	2	2.7	16.3	96	31	54	23	8.0	108
Sales	5	3.0	17.3	89	35	52	21	5.4	104	2	2.8	16.8	89	31	48	21	6.0	101	4	2.9	17.3	86	35	51	21	6.3	105
Culls										3	3.2	17.2	90	37	55	22	6.3	110	4	2.9	17.3	91	31	50	21	6.8	103
Nareeb, 130380	11	3.1	16.8	83	34	53	19	5.6	105	11	3.1	16.8	83	34	53	19	5.6	105	11	3.1	16.8	83	34	53	19	5.6	105
Tops										2	3.1	15.6	82	31	53	18	5.5	113	2	3.0	16.1	87	32	55	18	4.0	98
Seconds	7	3.2	16.6	84	33	52	19	5.4	107	3	3.0	17.6	81	33	57	20	5.7	99	2	3.0	17.3	78	34	53	18	6.5	102
Sales	4	2.9	17.1	81	34	54	20	6.0	102	4	3.2	17.1	84	37	49	20	6.5	108	3	3.3	16.6	82	34	50	20	5.0	110
Culls										2	3.0	16.1	87	32	55	18	4.0	98	4	3.0	17.0	85	35	54	20	6.5	106

Sire	Post Weaning Class Average LT Performance /A7 MP+ Index by Grade										Adult Class Average LT Performance /A7 MP+ Index by Grade										Adult 7 Class Average LT Performance /A7 MP+ Index by Grade									
	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+			
Nerst, 130467	20	3.5	16.8	86	33	49	16	4.6	95	20	3.5	16.8	86	33	49	16	4.6	95	20	3.5	16.8	86	33	49	16	4.6	95			
Tops										3	3.7	16.6	94	34	49	18	5.0	97	3	3.8	16.7	91	37	56	19	4.0	101			
Seconds										5	3.5	17.3	89	33	50	18	4.6	93	4	3.4	16.7	90	32	47	16	4.3	97			
Sales	4	3.5	17.9	86	33	49	17	4.8	92	6	3.3	16.7	82	35	49	18	4.3	92	7	3.4	16.5	85	33	48	16	5.6	96			
Culls	16	3.5	16.5	86	33	49	16	4.6	96	6	3.4	16.6	85	32	48	13	4.8	98	6	3.4	17.2	83	33	48	16	3.8	89			
One Oak, R56	25	3.4	16.4	82	30	47	17	5.0	94	25	3.4	16.4	82	30	47	17	5.0	94	24	3.4	16.4	82	30	47	17	5.0	94			
Tops										2	3.9	16.2	91	29	52	19	6.5	107	3	3.5	15.7	85	24	51	19	4.7	93			
Seconds	2	3.9	17.0	93	31	52	19	5.0	101	7	3.4	16.4	82	28	49	19	4.4	92	5	3.3	16.3	78	29	48	16	4.2	91			
Sales	8	3.4	16.3	84	29	48	19	5.1	95	7	3.5	16.3	83	29	48	17	4.6	95	8	3.6	16.6	86	33	48	17	5.0	98			
Culls	15	3.3	16.3	80	30	46	16	4.9	93	9	3.2	16.4	79	33	44	16	5.4	92	8	3.2	16.3	80	30	44	17	6.0	93			
Roseville P, 140019	16	3.2	17.0	83	35	52	21	5.6	93	16	3.2	17.0	83	35	52	21	5.6	93	16	3.2	17.0	83	35	52	21	5.6	93			
Tops										2	3.3	17.1	79	30	60	24	7.0	100	3	3.1	16.9	84	34	54	20	6.3	92			
Seconds	5	3.3	17.0	80	31	54	22	6.0	98	2	3.2	16.9	89	32	52	23	5.0	86	3	3.2	16.9	85	35	55	22	6.0	96			
Sales	5	3.2	17.0	85	38	52	19	5.5	92	8	3.2	16.9	82	36	51	20	5.4	94	4	3.4	17.2	82	37	52	21	5.0	96			
Culls	6	3.0	16.9	83	36	51	21	5.4	91	4	3.0	17.1	82	38	52	19	5.7	92	6	3.0	16.9	81	35	50	21	5.3	91			
T Mnt Dam, ESA004	22	3.0	16.1	86	31	48	19	5.2	98	22	3.0	16.1	86	31	48	19	5.2	98	22	3.0	16.1	86	31	48	19	5.2	98			
Tops	1	3.3	16.0	92	27	54	21	4.0	93	3	3.1	16.2	87	37	47	20	5.3	103	3	3.0	15.4	88	26	52	18	4.7	97			
Seconds	2	3.2	16.1	89	29	49	23	4.0	102	7	3.1	16.4	88	31	52	21	5.3	102	5	3.0	15.9	84	31	49	21	5.2	95			
Sales	8	3.1	16.2	84	32	50	20	5.5	99	4	2.9	16.2	89	32	47	18	5.5	93	7	3.2	16.7	90	34	49	20	5.0	104			
Culls	11	3.0	16.0	86	31	47	18	5.3	98	8	3.0	15.7	82	29	47	18	4.9	96	7	3.0	15.9	83	30	46	18	5.6	96			
Tuckw, 121021	19	3.3	16.7	90	31	52	19	5.6	110	19	3.3	16.7	90	31	52	19	5.6	110	19	3.3	16.7	90	31	52	19	5.6	110			
Tops	1	3.6	16.3	98	26	54	15	8.0	119										3	3.6	16.5	97	32	54	16	5.7	117			
Seconds	2	3.3	17.9	95	34	54	22	5.5	107	8	3.2	17.3	92	33	52	20	5.9	109	4	3.4	16.9	87	26	53	20	6.3	110			
Sales	7	3.3	17.1	89	31	52	21	5.9	109	5	3.5	16.8	90	31	53	20	6.0	112	5	3.0	16.4	91	31	51	20	6.0	109			
Culls	9	3.2	16.2	89	30	51	17	5.2	111	6	3.1	15.9	88	28	51	17	5.0	110	7	3.2	17.1	88	32	51	19	5.0	109			
Yalgoo, 120043	24	3.0	15.5	82	32	45	17	5.2	102	24	3.0	15.5	82	32	45	17	5.2	102	24	3.0	15.5	82	32	45	17	5.2	102			
Tops	1	3.1	15.6	81	39	52	18	6.0	110	2	3.3	15.4	80	33	49	19	7.5	114	3	3.6	15.5	81	30	47	14	6.0	108			
Seconds	9	3.1	15.6	83	31	46	17	4.8	101	5	3.0	15.2	80	32	52	22	5.4	105	6	3.0	15.4	81	33	49	19	5.7	103			
Sales	9	3.1	15.4	80	31	46	17	5.5	102	8	3.1	15.5	83	32	44	17	5.1	101	8	2.9	15.2	83	32	45	17	5.3	101			
Culls	5	2.6	15.2	81	33	42	18	5.4	101	9	2.8	15.5	82	31	42	15	4.7	98	7	2.9	15.8	82	30	42	18	4.6	99			

Sire	Post Weaning Class Average LT Performance /A7 MP+ Index by Grade									Adult Class Average LT Performance /A7 MP+ Index by Grade									Adult 7 Class Average LT Performance /A7 MP+ Index by Grade								
	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+
Yiddinga, 130374	21	2.9	16.2	83	34	50	20	5.5	103	21	2.9	16.2	83	34	50	20	5.5	103	21	2.9	16.2	83	34	50	20	5.5	103
Tops										2	2.7	16.7	90	38	58	22	7.0	105	3	3.2	16.7	91	39	52	20	5.3	105
Seconds	7	3.0	16.2	86	35	53	22	6.6	109	6	2.9	16.1	85	36	50	21	6.0	109	4	2.9	16.0	82	35	50	20	6.3	105
Sales	7	2.9	16.5	84	35	48	19	4.6	100	8	3.0	16.4	82	34	48	19	5.4	103	7	2.8	16.5	83	35	49	21	5.4	102
Culls	7	2.8	15.9	81	33	48	20	5.2	100	5	2.8	15.9	82	33	48	20	4.0	96	7	2.9	15.8	82	31	49	19	5.0	103
Total	437	3.2	16.6	85	33	50	20	5.3	100	439	3.2	16.6	85	33	50	20	5.3	100	435	3.2	16.6	85	33	50	20	5.3	100

Bill Walker Change in Grade between Stages (and the % that stayed the same between stages)

P to A	Top	Sec	Sal	Cul	Tot		P to A7	Top	Sec	Sal	Cul	Tot		A to A7	Top	Sec	Sal	Cul	Tot	
Billandri, 130087	3	3	2	4	12		Billandri, 130087	3	2	3	4	12		Billandri, 130087	3	2	3	4	12	
Tops	2				2		Tops	1			1	2		Tops	1		1	1	3	
Seconds	1	1	1	2	5		Seconds	2	1	2		5		Seconds		1	2		3	
Sales		2		1	3		Sales		1	1	1	3		Sales		1		1	2	
Culls			1	1	2	33%	Culls				2	2	42%	Culls	2			2	4	33%
Bogo, 111424	1	7	6	5	19		Bogo, 111424	3	4	6	6	19		Bogo, 111424	3	4	6	6	19	
Tops		1		1	2		Tops				2	2		Tops	1				1	
Seconds	1	2			3		Seconds	1	1		1	3		Seconds	1	3	1	2	7	
Sales		3	3		6		Sales	1	2	1	2	6		Sales	1		3	2	6	
Culls		1	3	4	8	47%	Culls	1	1	5	1	8	16%	Culls		1	2	2	5	47%
Bundaleer, 13V741	3	8	10	6	27		Bundaleer, 13V741	3	6	8	10	27		Bundaleer, 13V741	3	6	8	10	27	
Tops	2	2			4		Tops		3	1		4		Tops	1	2			3	
Seconds	1		4		5		Seconds	1	1	2	1	5		Seconds	1	2	4	1	8	
Sales		5	4	2	11		Sales	2	1	3	5	11		Sales	1	1	3	5	10	
Culls		1	2	4	7	37%	Culls		1	2	4	7	30%	Culls		1	1	4	6	37%
Bundilla, 111265	2	2	7	5	16		Bundilla, 111265	3	3	5	5	16		Bundilla, 111265	3	3	5	5	16	
Tops		1		1	2		Tops			1	1	2		Tops		1	1		2	
Seconds	1		2	1	4		Seconds	2	1		1	4		Seconds		1		1	2	
Sales	1	1	2	3	7		Sales	1	1	3	2	7		Sales	2	1	1	3	7	
Culls			3		3	13%	Culls		1	1	1	3	31%	Culls	1		3	1	5	19%
C Plus, 207316	1	4	6	7	18		C Plus, 207316	3	2	7	6	18		C Plus, 207316	3	2	7	6	18	
Tops		1		1	2		Tops	1		1		2		Tops	1				1	
Seconds		2			2		Seconds			1	1	2		Seconds			2	2	4	
Sales				1	1		Sales				1	1		Sales		1	3	2	6	
Culls	1	1	6	5	13	39%	Culls	2	2	5	4	13	28%	Culls	2	1	2	2	7	33%
Darriwell, 130941	1	4	2	3	10		Darriwell, 130941	1	3	3	3	10		Darriwell, 130941	1	3	3	3	10	
Tops	1				1		Tops		1			1		Tops		1			1	
Seconds		1	1		2		Seconds			2		2		Seconds		1	1	2	4	
Sales		2	1		3		Sales	1	1		1	3		Sales	1		1		2	
Culls		1		3	4	60%	Culls		1	1	2	4	20%	Culls		1	1	1	3	30%

P to A	Top	Sec	Sal	Cul	Tot		P to A7	Top	Sec	Sal	Cul	Tot		A to A7	Top	Sec	Sal	Cul	Tot		
Glenpn, 120042	1	2	2	3	8		Glenpn, 120042	1	2	2	3	8		Glenpn, 120042	1	2	2	3	8		
Tops					0		Tops					0		Tops	1					1	
Seconds		1		1	2		Seconds		1	1		2		Seconds		1	1			2	
Sales	1			1	2		Sales	1			1	2		Sales		1		1		2	
Culls		1	2	1	4	25%	Culls		1	1	2	4	38%	Culls			1	2	3		50%
Grefields, 130599	0	7	4	4	15		Grefields, 130599	3	2	5	4	14		Grefields, 130599	3	2	5	4	14		
Tops				1	1		Tops			1		1		Tops						0	
Seconds		2			2		Seconds	1			1	2		Seconds	2	2	1	1		6	
Sales		3	1	1	5		Sales	2	1	1		4		Sales	1		1	2		4	
Culls		2	3	2	7	33%	Culls		1	3	3	7	29%	Culls			3	1		4	29%
Hazeld, 11.43	2	8	4	7	21		Hazeld, 11.43	3	4	7	7	21		Hazeld, 11.43	3	4	7	7	21		
Tops		1			1		Tops			1		1		Tops	1		1			2	
Seconds		1		1	2		Seconds		1	1		2		Seconds		2	4	2		8	
Sales	1	3	2	1	7		Sales		1	3	3	7		Sales	2	1		1		4	
Culls	1	3	2	5	11	38%	Culls	3	2	2	4	11	38%	Culls		1	2	4		7	33%
Kurra-W, SR5681	2	2	5	7	16		Kurra-W, SR5681	3	3	5	5	16		Kurra-W, SR5681	3	3	5	5	16		
Tops	1	1	1		3		Tops		2	1		3		Tops	1		1			2	
Seconds	1				1		Seconds	1				1		Seconds		1	1			2	
Sales			1	1	2		Sales				2	2		Sales	1	1		3		5	
Culls		1	3	6	10	50%	Culls	2	1	4	3	10	19%	Culls	1	1	3	2		7	25%
Leahcim, 090918	3	6	7	5	21		Leahcim, 090918	2	5	7	7	21		Leahcim, 090918	2	5	7	7	21		
Tops	2				2		Tops			2		2		Tops	1		2			3	
Seconds		2	2		4		Seconds	1	1		2	4		Seconds	1	2	1	2		6	
Sales		2	4	1	7		Sales		4	2	1	7		Sales		2	2	3		7	
Culls	1	2	1	4	8	57%	Culls	1		3	4	8	33%	Culls		1	2	2		5	33%
Leahcim, 123153	3	6	5	7	21		Leahcim, 123153	3	4	7	7	21		Leahcim, 123153	3	4	7	7	21		
Tops	3	1		1	5		Tops		1	2	2	5		Tops		1	1	1		3	
Seconds		1	1	1	3		Seconds	1	1		1	3		Seconds	1	1	2	2		6	
Sales		3	3	2	8		Sales	2	1	3	2	8		Sales	2	1	1	1		5	
Culls		1	1	3	5	48%	Culls		1	2	2	5	29%	Culls		1	3	3		7	24%

P to A	Top	Sec	Sal	Cul	Tot		P to A7	Top	Sec	Sal	Cul	Tot		A to A7	Top	Sec	Sal	Cul	Tot	
Merinot, 100081	2	5	6	6	19		Merinot, 100081	3	4	6	6	19		Merinot, 100081	3	4	6	6	19	
Tops		1			1		Tops			1		1		Tops	1		1		2	
Seconds		2		2	4		Seconds	1	1	1	1	4		Seconds			3	2	5	
Sales	2	1	3		6		Sales	2	1	3		6		Sales	1	3	1	1	6	
Culls		1	3	4	8	47%	Culls		2	1	5	8	47%	Culls	1	1	1	3	6	26%
Mokanger, 120092	3	2	5	4	14		Mokanger, 120092	2	3	4	4	13		Mokanger, 120092	2	3	4	4	13	
Tops					0		Tops					0		Tops		1	2		3	
Seconds	2				2		Seconds		1	1		2		Seconds			1	1	2	
Sales				2	2		Sales	1	1			2		Sales	1	1		2	4	
Culls	1	2	5	2	10	14%	Culls	1	1	3	4	9	38%	Culls	1	1	1	1	4	8%
Moojepin, 100248	3	7	5	4	19		Moojepin, 100248	3	4	6	6	19		Moojepin, 100248	3	4	6	6	19	
Tops	1		1		2		Tops		1		1	2		Tops	1	1	1		3	
Seconds	2	3	1	1	7		Seconds	1	3	3		7		Seconds		2	3	2	7	
Sales		2	1	1	4		Sales	1		1	2	4		Sales			2	3	5	
Culls		2	2	2	6	37%	Culls	1		2	3	6	37%	Culls	2	1		1	4	32%
Mumbleb, 130389	1	3	4	2	10		Mumbleb, 130389	2	2	3	3	10		Mumbleb, 130389	2	2	3	3	10	
Tops					0		Tops					0		Tops				1	1	
Seconds	1	1			2		Seconds			1	1	2		Seconds	1		1	1	3	
Sales		1	1	1	3		Sales	2	1			3		Sales		1	2	1	4	
Culls		1	3	1	5	30%	Culls		1	2	2	5	20%	Culls	1	1			2	20%
Mumbleb, 130850	3	5	2	3	13		Mumbleb, 130850	2	2	4	4	12		Mumbleb, 130850	2	2	4	4	12	
Tops	1	2			3		Tops		1	1		2		Tops	1	1		1	3	
Seconds	1	2		2	5		Seconds	2	1	1	1	5		Seconds			3	1	4	
Sales	1	1	2	1	5		Sales			2	3	5		Sales				2	2	
Culls					0	38%	Culls					0	25%	Culls	1	1	1		3	8%
Nareeb, 130380	2	3	4	2	11		Nareeb, 130380	2	2	3	4	11		Nareeb, 130380	2	2	3	4	11	
Tops					0		Tops					0		Tops			1	1	2	
Seconds	2	1	2	2	7		Seconds	2		2	3	7		Seconds		1		2	3	
Sales		2	2		4		Sales		2	1	1	4		Sales		1	2	1	4	
Culls					0	27%	Culls					0	9%	Culls	2				2	27%

P to A	Top	Sec	Sal	Cul	Tot		P to A7	Top	Sec	Sal	Cul	Tot		A to A7	Top	Sec	Sal	Cul	Tot	
Nerst, 130467	3	5	6	6	20		Nerst, 130467	3	4	7	6	20		Nerst, 130467	3	4	7	6	20	
Tops					0		Tops					0		Tops	1		1	1	3	
Seconds					0		Seconds					0		Seconds		2	2	1	5	
Sales		2	1	1	4		Sales			2	2	4		Sales	1	1	2	2	6	
Culls	3	3	5	5	16	30%	Culls	3	4	5	4	16	30%	Culls	1	1	2	2	6	35%
One Oak, R56	2	7	7	9	25		One Oak, R56	3	5	8	8	24		One Oak, R56	3	5	8	8	24	
Tops					0		Tops					0		Tops	1		1		2	
Seconds	1			1	2		Seconds	1		1		2		Seconds	2	2	2	1	7	
Sales	1	3	3	1	8		Sales		2	4	2	8		Sales		3	2	1	6	
Culls		4	4	7	15	40%	Culls	2	3	3	6	14	42%	Culls			3	6	9	46%
Roseville P, 140019	2	2	8	4	16		Roseville P, 140019	3	3	4	6	16		Roseville P, 140019	3	3	4	6	16	
Tops					0		Tops					0		Tops	1	1			2	
Seconds	2		3		5		Seconds	1	1	1	2	5		Seconds		1		1	2	
Sales		1	2	2	5		Sales	1	2	2		5		Sales	2		3	3	8	
Culls		1	3	2	6	25%	Culls	1		1	4	6	44%	Culls		1	1	2	4	44%
T Mnt Dam, ESA004	3	7	4	8	22		T Mnt Dam, ESA004	3	5	7	7	22		T Mnt Dam, ESA004	3	5	7	7	22	
Tops			1		1		Tops	1				1		Tops		1	2		3	
Seconds	1	1			2		Seconds			2		2		Seconds	1	1	4	1	7	
Sales	2	3		3	8		Sales	1	3	1	3	8		Sales	1	1		2	4	
Culls		3	3	5	11	27%	Culls	1	2	4	4	11	27%	Culls	1	2	1	4	8	23%
Tuckw, 121021	0	8	5	6	19		Tuckw, 121021	3	4	5	7	19		Tuckw, 121021	3	4	5	7	19	
Tops		1			1		Tops	1				1		Tops					0	
Seconds		2			2		Seconds	1		1		2		Seconds	2		2	4	8	
Sales		3	2	2	7		Sales		2		5	7		Sales	1	2	1	1	5	
Culls		2	3	4	9	42%	Culls	1	2	4	2	9	16%	Culls		2	2	2	6	16%
Yalgoo, 120043	2	5	8	9	24		Yalgoo, 120043	3	6	8	7	24		Yalgoo, 120043	3	6	8	7	24	
Tops		1			1		Tops		1			1		Tops	1	1			2	
Seconds	1	2	3	3	9		Seconds		3	4	2	9		Seconds		3	2		5	
Sales	1	2	3	3	9		Sales	3	2	1	3	9		Sales	1	2	3	2	8	
Culls			2	3	5	33%	Culls			3	2	5	25%	Culls	1		3	5	9	50%

P to A	Top	Sec	Sal	Cul	Tot		P to A7	Top	Sec	Sal	Cul	Tot		A to A7	Top	Sec	Sal	Cul	Tot	
Yiddinga, 130374	2	6	8	5	21		Yiddinga, 130374	3	4	7	7	21		Yiddinga, 130374	3	4	7	7	21	
Tops					0		Tops					0		Tops	1		1		2	
Seconds	2	3	2		7		Seconds	2	1	3	1	7		Seconds	1	2	1	2	6	
Sales		2	4	1	7		Sales			3	4	7		Sales		2	3	3	8	
Culls		1	2	4	7	52%	Culls	1	3	1	2	7	29%	Culls	1		2	2	5	38%
Total	50	124	132	131	437		Total	66	88	137	142	433		Total	66	88	137	142	433	

Balmoral 2015 Drop – Wells Classer Trial – Chris Bowman Measured LIFETIME Performance by Grade at P, H and A7 (Drop Level)

	Post Weaning Class Average LT Performance /A7 MP+ Index by Grade									Adult Class Average LT Performance /A7 MP+ Index by Grade									Adult 7 Class Average LT Performance /A7 MP+ Index by Grade								
	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+
Tops	54	3.3	16.9	88	33	51	20	5.6	103	53	3.3	16.9	89	34	52	21	5.9	104	72	3.3	16.7	87	34	52	21	5.4	102
Seconds	71	3.2	16.7	86	32	51	21	5.4	100	123	3.2	16.6	86	34	51	20	5.5	101	85	3.2	16.7	86	32	51	20	5.3	99
Sales	139	3.1	16.5	85	32	49	19	5.3	100	134	3.1	16.5	86	32	49	20	5.2	100	135	3.1	16.6	85	33	49	20	5.4	100
Culls	174	3.1	16.5	84	33	49	20	5.1	99	128	3.1	16.5	82	32	48	20	4.9	97	143	3.1	16.5	84	32	48	19	5.2	99
Total / Ave	438	3.2	16.6	85	33	50	20	5.3	100	438	3.2	16.6	85	33	50	20	5.3	100	435	3.2	16.6	85	33	50	20	5.3	100

Balmoral 2015 Drop – Wells Classer Trial – Chris Bowman Measured LIFETIME Performance by Grade at Post Weaning, Adult and Adult 7 (By Sire)

Sire	Post Weaning Class Average LT Performance /A7 MP+ Index by Grade										Adult Class Average LT Performance /A7 MP+ Index by Grade										Adult 7 Class Average LT Performance /A7 MP+ Index by Grade									
	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+			
Billandri, 130087	12	3.6	17.7	91	32	49	19	5.9	113	12	3.6	17.7	91	32	49	19	5.9	113	12	3.6	17.7	91	32	49	19	5.9	113			
Tops	3	3.3	17.8	92	32	52	20	7.0	107	2	3.5	17.9	93	31	53	23	6.0	108	3	3.6	18.0	96	35	47	18	6.3	113			
Seconds	2	3.8	18.2	86	32	48	18	5.0	116	3	3.6	18.5	93	36	50	18	6.0	112	2	3.5	17.7	95	32	51	17	5.5	114			
Sales	3	3.8	17.7	90	35	50	22	4.7	117	4	3.7	17.2	93	31	51	18	6.0	118	3	3.5	17.0	86	34	50	20	5.7	115			
Culls	4	3.5	17.2	94	31	47	17	6.5	114	3	3.5	17.2	86	31	45	19	5.7	112	4	3.6	17.8	89	30	50	21	6.0	112			
Bogo, 111424	19	3.1	15.6	85	29	47	20	5.6	101	19	3.1	15.6	85	29	47	20	5.6	101	19	3.1	15.6	85	29	47	20	5.6	101			
Tops	2	3.2	15.7	87	29	46	18	7.5	110	2	3.4	15.8	89	31	48	20	7.5	116	3	3.3	15.9	88	28	49	21	6.0	105			
Seconds	5	3.2	15.9	89	30	49	21	6.0	102	6	3.2	15.9	86	30	47	20	5.7	101	4	3.0	15.9	86	30	47	20	4.8	98			
Sales	4	3.0	15.6	82	29	44	19	5.5	99	6	2.9	15.4	85	30	47	20	4.7	98	6	3.0	15.3	85	29	47	21	5.2	101			
Culls	8	3.0	15.4	83	29	47	21	5.0	99	5	2.9	15.3	81	28	45	21	6.0	99	6	3.0	15.5	82	29	45	19	6.5	102			
Bundaleer, 13V741	27	3.1	16.5	81	34	51	20	4.8	96	28	3.1	16.5	81	34	51	20	4.8	96	28	3.1	16.5	81	34	51	20	4.8	96			
Tops	3	3.1	15.6	80	36	55	21	5.0	103	3	3.4	16.5	91	36	51	19	5.7	103	3	3.5	16.4	87	37	54	19	4.0	101			
Seconds	8	3.2	16.5	85	34	52	20	4.3	94	8	3.0	16.2	79	35	53	21	5.3	100	6	3.2	16.5	82	35	52	21	4.3	96			
Sales	8	3.0	16.6	80	34	51	20	5.9	100	9	3.0	16.7	81	33	50	21	4.1	90	9	3.0	16.4	82	33	50	21	5.3	97			
Culls	8	2.9	16.5	81	33	50	20	4.3	92	8	3.0	16.6	80	33	50	20	4.8	97	10	2.9	16.6	78	34	50	20	4.8	94			
Bundilla, 111265	16	3.2	16.9	80	34	54	22	5.7	111	16	3.2	16.9	80	34	54	22	5.7	111	16	3.2	16.9	80	34	54	22	5.7	111			
Tops	2	3.4	16.7	79	33	56	19	5.0	114	2	3.4	17.3	83	34	60	24	6.0	112	3	3.2	16.8	84	33	55	22	7.7	112			
Seconds	4	3.2	16.8	83	32	54	24	5.5	106	3	3.1	16.3	77	36	51	17	6.3	116	3	3.6	17.5	80	32	55	22	5.3	112			
Sales	4	3.3	17.5	81	38	54	22	7.8	117	6	3.0	16.7	82	34	54	23	6.3	108	5	3.3	16.6	77	35	55	21	5.6	116			
Culls	6	3.1	16.6	78	32	54	22	4.7	108	5	3.4	17.3	79	31	55	24	4.4	109	5	3.0	16.8	81	33	53	23	4.8	103			
C Plus, 207316	18	3.0	16.0	87	33	46	18	5.5	103	18	3.0	16.0	87	33	46	18	5.5	103	18	3.0	16.0	87	33	46	18	5.5	103			
Tops	3	3.0	16.2	85	36	49	20	6.0	109	2	3.0	15.6	83	35	47	20	5.0	107	3	3.0	15.8	84	35	50	22	7.3	111			
Seconds	2	2.7	15.8	94	27	43	20	7.0	103	4	2.9	16.5	88	37	50	20	7.3	107	3	2.9	16.7	90	37	48	19	6.7	106			
Sales	5	2.9	15.9	87	31	45	15	4.4	99	6	3.0	15.9	88	31	45	19	5.2	104	6	2.9	15.8	86	31	45	20	5.3	102			
Culls	8	3.0	16.1	86	36	47	19	5.6	103	6	3.0	16.0	86	33	45	16	4.8	98	6	3.0	16.0	87	33	44	15	4.2	99			
Darriwell, 130941	10	3.6	17.3	80	35	51	19	4.9	109	10	3.6	17.3	80	35	51	19	4.9	109	10	3.6	17.3	80	35	51	19	4.9	109			
Tops	1	3.8	18.1	83	29	48	13	7.0	102	1	3.8	18.1	83	29	48	13	7.0	102	3	3.8	17.2	81	32	53	20	4.0	108			
Seconds	1	3.6	17.0	76	42	47	21	5.0	119	3	3.6	16.7	84	36	51	19	4.3	112	1	3.7	18.3	77	33	52	22	6.0	105			
Sales	3	3.6	16.7	84	36	51	19	4.3	112	4	3.5	17.0	80	36	51	22	4.8	111	3	3.4	17.0	83	33	52	20	6.0	110			
Culls	5	3.6	17.6	78	34	52	21	4.8	108	2	3.8	18.4	74	35	50	19	5.0	106	3	3.7	17.4	77	41	46	18	4.3	112			

Sire	Post Weaning Class Average LT Performance /A7 MP+ Index by Grade									Adult Class Average LT Performance /A7 MP+ Index by Grade									Adult 7 Class Average LT Performance /A7 MP+ Index by Grade								
	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+
Glenpn, 120042	9	3.4	16.0	83	31	52	18	4.0	97	9	3.4	16.0	83	31	52	18	4.0	97	9	3.4	16.0	83	31	52	18	4.0	97
Tops	1	3.6	15.7	88	33	53	19	3.0	105	2	3.2	15.6	83	31	53	20	5.0	100	1	3.6	15.7	88	33	53	19	3.0	105
Seconds										4	3.4	16.4	85	32	53	19	4.3	97	2	3.4	15.7	83	34	56	21	4.5	98
Sales	5	3.4	16.0	82	33	52	17	4.2	99	2	3.7	16.1	82	33	48	15	2.5	99	3	3.4	16.3	82	32	52	19	4.0	95
Culls	3	3.3	16.2	82	28	51	19	4.0	92	1	2.9	15.1	74	24	50	14	4.0	90	3	3.3	16.1	81	28	48	14	4.0	97
Grefields, 130599	15	3.3	16.6	85	31	46	18	5.7	113	15	3.3	16.6	85	31	46	18	5.7	113	15	3.3	16.6	85	31	46	18	5.7	113
Tops	2	3.4	16.5	90	35	49	18	6.0	115	2	3.4	16.1	91	30	48	18	6.5	114	3	3.5	16.9	96	33	46	17	5.3	115
Seconds	3	3.4	16.3	84	26	47	19	5.7	112	5	3.3	16.8	86	32	46	16	5.4	115	2	3.4	16.3	82	26	47	20	4.5	109
Sales	3	3.1	16.7	89	31	44	18	6.7	117	5	3.3	16.8	86	32	45	19	6.4	113	5	3.1	16.6	82	33	46	18	6.2	113
Culls	7	3.3	16.9	83	33	45	16	5.3	111	3	3.1	16.4	77	31	46	17	4.7	108	5	3.3	16.6	83	31	46	16	6.0	113
Hazeld, 11.43	21	3.4	16.7	87	33	52	21	5.0	107	21	3.4	16.7	87	33	52	21	5.0	107	21	3.4	16.7	87	33	52	21	5.0	107
Tops	3	3.5	16.7	85	32	52	21	4.7	113	3	3.4	16.8	87	35	59	21	5.7	110	3	3.3	16.9	92	37	57	24	5.3	106
Seconds										5	3.6	17.0	93	38	53	21	4.6	109	4	3.3	17.1	84	33	52	20	4.8	104
Sales	10	3.3	16.5	85	30	50	20	5.0	103	5	3.4	16.6	86	30	50	20	6.0	107	7	3.3	16.3	84	31	52	20	5.7	107
Culls	8	3.5	17.0	90	37	53	21	5.3	109	8	3.3	16.6	83	31	49	20	4.5	103	7	3.6	16.8	89	33	49	20	4.4	107
Kurra-W, SR5681	16	3.2	17.0	84	36	45	20	5.2	94	16	3.2	17.0	84	36	45	20	5.2	94	16	3.2	17.0	84	36	45	20	5.2	94
Tops	3	3.1	16.7	82	34	45	21	5.0	94	3	3.4	17.5	83	40	48	19	5.3	96	3	3.0	17.2	82	39	51	22	5.0	90
Seconds	1	3.1	17.6	80	45	53	23	7.0	97	4	3.0	17.0	82	34	47	21	5.0	92	3	3.5	17.1	82	40	45	18	5.7	101
Sales	3	3.3	16.9	83	40	45	16	6.0	99	3	3.1	16.9	89	33	44	20	4.7	89	5	3.2	16.7	84	33	44	19	5.0	95
Culls	9	3.2	17.1	84	34	44	20	4.8	92	6	3.2	16.8	82	37	43	18	5.5	96	5	3.1	17.2	85	36	43	19	5.2	91
Leahcim, 090918	21	3.1	17.2	88	32	51	21	5.0	85	21	3.1	17.2	88	32	51	21	5.0	85	21	3.1	17.2	88	32	51	21	5.0	85
Tops	2	3.5	17.5	96	38	54	21	5.5	91	3	3.4	18.1	97	33	58	23	6.0	90	3	3.4	17.9	86	32	57	24	5.0	87
Seconds	4	3.2	17.5	91	29	51	18	5.5	83	6	3.1	17.1	89	32	54	22	4.7	84	4	3.3	17.9	96	33	56	22	5.8	87
Sales	7	3.1	17.0	87	31	49	22	4.9	91	5	3.1	17.1	85	32	47	19	5.0	87	7	3.1	16.9	88	30	50	20	5.1	87
Culls	8	2.9	17.3	86	32	51	21	4.8	79	7	2.9	17.1	87	31	47	20	4.9	82	7	2.8	17.0	85	32	46	19	4.4	81
Leahcim, 123153	21	2.9	16.7	88	29	49	22	4.5	77	21	2.9	16.7	88	29	49	22	4.5	77	21	2.9	16.7	88	29	49	22	4.5	77
Tops	3	3.1	17.2	93	31	50	23	4.3	78	3	3.4	16.9	96	30	49	20	6.0	93	3	3.1	16.5	90	28	52	23	5.3	83
Seconds	4	3.1	17.1	90	30	50	22	4.5	81	6	2.9	17.1	88	32	50	23	4.3	75	4	2.7	16.7	87	30	51	23	4.8	73
Sales	6	2.8	16.8	91	31	50	22	4.7	76	5	2.7	16.7	89	29	51	23	4.0	71	7	2.9	17.0	90	30	48	22	4.3	75
Culls	8	2.6	16.1	84	26	48	22	4.5	75	7	2.6	16.1	85	26	48	22	4.4	75	7	2.8	16.4	87	27	49	21	4.3	77

Sire	Post Weaning Class Average LT Performance /A7 MP+ Index by Grade									Adult Class Average LT Performance /A7 MP+ Index by Grade									Adult 7 Class Average LT Performance /A7 MP+ Index by Grade								
	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+
Merinot, 100081	19	3.0	16.6	86	36	50	22	4.9	102	19	3.0	16.6	86	36	50	22	4.9	102	19	3.0	16.6	86	36	50	22	4.9	102
Tops	2	3.4	17.6	91	30	55	24	3.5	99	2	3.2	17.3	89	33	50	20	5.0	101	3	3.0	17.0	87	36	51	22	7.3	103
Seconds	5	3.1	17.0	89	35	54	23	4.2	102	6	3.1	16.6	88	34	53	23	4.7	105	4	3.2	17.1	90	33	54	24	2.0	98
Sales	4	3.1	16.8	83	36	49	21	4.8	103	5	2.9	16.3	88	37	47	20	6.0	105	6	3.0	16.6	83	37	51	24	4.3	99
Culls	8	2.8	16.0	84	37	47	21	5.8	103	6	2.9	16.6	81	37	51	24	4.2	98	6	2.9	16.1	86	36	47	19	6.2	108
Mokanger, 120092	14	3.5	16.8	78	38	50	21	4.6	102	14	3.5	16.8	78	38	50	21	4.6	102	13	3.5	16.8	78	38	50	21	4.6	102
Tops	1	4.3	17.5	81	41	53	20	3.0	112	3	3.3	17.8	84	42	46	23	5.3	97	3	3.8	16.7	79	35	54	21	3.7	101
Seconds	3	3.5	17.2	82	39	48	21	5.0	98	4	3.6	16.8	77	38	49	20	4.0	105	2	3.3	17.3	82	45	51	24	5.5	99
Sales	3	3.4	16.9	78	37	47	20	4.0	98	2	3.7	16.6	78	36	48	16	4.0	101	4	3.4	17.3	78	40	48	22	5.0	101
Culls	7	3.5	16.5	76	37	52	22	4.9	104	5	3.5	16.3	76	36	54	23	4.8	103	4	3.5	16.4	76	35	51	20	4.8	106
Moojepin, 100248	19	2.8	17.1	92	31	55	23	6.2	105	19	2.8	17.1	92	31	55	23	6.2	105	19	2.8	17.1	92	31	55	23	6.2	105
Tops	3	2.8	17.3	95	33	53	23	6.7	103	3	2.8	16.7	92	32	60	25	7.7	110	3	3.1	16.6	85	27	57	24	6.0	109
Seconds	3	2.9	16.6	88	27	56	23	6.3	107	5	2.8	18.0	93	34	55	24	6.4	101	4	3.0	17.5	93	32	57	24	7.3	108
Sales	5	2.8	17.6	96	33	55	24	6.6	103	6	2.7	16.8	92	30	55	23	6.0	105	6	2.8	17.5	94	34	51	23	5.7	101
Culls	8	2.8	16.9	89	30	54	23	5.8	105	5	3.0	16.8	90	29	50	22	5.4	105	6	2.6	16.6	92	29	56	23	6.2	103
Mumbleb, 130389	10	3.0	17.0	87	31	47	21	5.8	88	10	3.0	17.0	87	31	47	21	5.8	88	10	3.0	17.0	87	31	47	21	5.8	88
Tops	2	3.4	17.3	91	35	49	21	8.5	99	2	3.2	17.2	89	38	48	21	6.0	95	2	2.8	17.3	89	33	47	19	6.0	88
Seconds										2	3.2	17.5	92	31	49	22	7.0	92	2	3.2	17.7	86	30	50	22	5.5	85
Sales	4	2.7	16.7	83	30	47	23	6.0	89	4	2.8	17.1	87	32	46	20	5.5	87	3	3.0	17.1	87	30	47	22	4.3	84
Culls	4	3.0	17.3	88	30	47	20	4.3	81	2	2.7	16.4	80	24	48	23	5.0	78	3	2.8	16.4	84	32	46	22	7.3	93
Mumbleb, 130850	13	3.0	17.1	91	32	52	22	7.0	106	13	3.0	17.1	91	32	52	22	7.0	106	11	3.0	17.1	91	32	52	22	7.0	106
Tops	3	2.9	16.9	95	30	51	22	8.7	107	3	3.3	17.3	95	31	55	23	7.0	109	2	3.4	17.1	95	31	53	22	7.5	112
Seconds	2	3.0	17.5	92	31	53	22	6.0	104	4	2.8	17.1	89	31	51	22	8.0	105	2	2.7	17.0	92	31	52	23	9.0	105
Sales	6	3.0	17.0	88	34	52	22	6.0	106	3	3.0	17.4	90	36	52	21	6.7	108	3	2.9	16.9	88	36	54	21	5.7	106
Culls	2	3.0	17.6	93	31	52	22	8.5	109	3	2.8	16.7	91	31	51	22	6.0	103	4	2.8	17.3	90	31	50	20	7.3	105
Nareeb, 130380	11	3.1	16.8	83	34	53	19	5.6	105	11	3.1	16.8	83	34	53	19	5.6	105	11	3.1	16.8	83	34	53	19	5.6	105
Tops	2	3.3	17.2	88	36	56	21	4.0	101										2	3.3	16.2	83	31	58	20	3.0	103
Seconds										3	3.2	17.0	85	35	55	20	5.3	105	3	3.2	17.5	82	35	53	18	6.3	103
Sales	7	3.1	16.4	82	33	50	18	6.3	108	5	3.1	16.6	83	32	55	18	5.2	102	2	2.8	16.4	87	34	53	19	6.0	100
Culls	2	3.0	17.7	82	36	58	20	5.0	98	3	3.1	16.8	82	36	48	20	6.7	109	4	3.1	16.7	82	34	50	19	6.3	110

Sire	Post Weaning Class Average LT Performance /A7 MP+ Index by Grade									Adult Class Average LT Performance /A7 MP+ Index by Grade									Adult 7 Class Average LT Performance /A7 MP+ Index by Grade								
	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+
Nerst, 130467	20	3.5	16.8	86	33	49	16	4.6	95	20	3.5	16.8	86	33	49	16	4.6	95	20	3.5	16.8	86	33	49	16	4.6	95
Tops	2	3.8	18.0	90	36	50	18	4.0	98	2	3.5	17.3	85	32	48	15	6.0	95	3	3.4	16.6	95	37	55	20	5.0	95
Seconds	2	3.6	17.3	89	36	48	16	5.5	94	6	3.6	16.5	88	34	51	16	5.0	98	4	3.7	16.6	85	31	51	15	3.8	96
Sales	7	3.3	16.5	90	34	51	18	5.3	97	7	3.5	16.8	90	33	49	18	4.6	99	7	3.6	17.0	83	34	48	17	4.7	93
Culls	9	3.5	16.6	82	32	48	15	4.0	93	5	3.3	16.9	80	33	48	15	3.5	86	6	3.3	16.7	87	33	46	15	5.0	97
One Oak, R56	25	3.4	16.4	82	30	47	17	5.0	94	24	3.4	16.4	82	30	47	17	5.0	94	24	3.4	16.4	82	30	47	17	5.0	94
Tops	2	3.9	17.0	93	31	52	19	5.0	101	2	3.9	17.0	93	31	52	19	5.0	101	4	3.5	16.5	85	29	52	21	3.3	92
Seconds	4	3.4	16.4	86	29	49	21	5.0	95	6	3.5	16.1	87	29	48	19	5.7	99	5	3.7	16.5	84	30	48	16	5.2	98
Sales	11	3.4	16.2	82	29	47	16	4.7	93	9	3.4	16.5	80	30	47	16	4.5	91	7	3.3	15.9	84	29	46	18	5.9	97
Culls	8	3.2	16.4	78	30	45	18	5.3	94	7	3.2	16.3	77	31	45	17	4.9	93	8	3.2	16.5	78	32	44	16	5.3	91
Roseville P, 140019	16	3.2	17.0	83	35	52	21	5.6	93	16	3.2	17.0	83	35	52	21	5.6	93	16	3.2	17.0	83	35	52	21	5.6	93
Tops	2	3.4	16.6	82	30	49	21	4.5	100	1	3.0	16.4	86	36	52	20	6.0	102	3	3.0	16.9	84	38	53	20	6.0	88
Seconds	2	3.2	17.3	75	36	57	22	7.0	98	5	3.3	16.9	83	35	52	21	5.6	99	3	3.4	17.7	85	34	56	20	6.0	87
Sales	5	3.3	17.1	86	33	53	21	5.8	91	5	3.1	16.7	84	32	54	22	6.0	92	5	3.1	16.7	82	34	53	21	6.2	98
Culls	7	3.0	16.9	83	38	51	20	5.5	92	5	3.2	17.5	81	38	52	19	5.3	87	5	3.2	16.8	81	35	49	20	4.8	96
T Mnt Dam, ESA004	22	3.0	16.1	86	31	48	19	5.2	98	22	3.0	16.1	86	31	48	19	5.2	98	22	3.0	16.1	86	31	48	19	5.2	98
Tops	1	3.1	16.4	89	28	47	22	5.0	104	2	2.9	15.9	87	34	48	22	5.0	102	3	3.3	16.1	88	30	53	22	4.0	95
Seconds	4	3.3	16.2	86	29	51	21	4.5	95	6	3.2	16.2	91	30	51	19	5.2	102	5	3.0	15.6	84	32	49	20	5.2	100
Sales	8	2.9	15.8	85	30	49	19	5.4	96	7	3.1	16.4	86	34	50	20	5.1	99	7	3.1	16.6	87	31	50	19	5.7	99
Culls	9	3.1	16.3	86	34	47	18	5.3	101	7	2.9	15.7	81	29	45	18	5.3	94	7	3.0	16.0	85	31	45	18	5.1	98
Tuckw, 121021	19	3.3	16.7	90	31	52	19	5.6	110	19	3.3	16.7	90	31	52	19	5.6	110	19	3.3	16.7	90	31	52	19	5.6	110
Tops	2	3.5	17.4	95	30	54	19	6.5	111	2	3.6	16.6	97	35	54	17	4.5	116	3	3.6	16.7	94	34	54	19	5.0	113
Seconds	2	3.3	17.4	86	26	55	23	7.0	111	4	3.5	17.5	93	33	52	20	6.3	109	4	3.2	16.3	89	26	49	14	6.0	110
Sales	3	3.1	16.6	93	33	50	18	5.7	112	8	3.2	16.7	91	30	52	20	5.9	111	6	3.3	17.2	91	30	53	20	6.5	111
Culls	12	3.2	16.6	89	31	52	18	5.3	110	5	3.1	16.3	84	28	51	17	5.2	108	6	3.0	16.6	88	33	52	21	4.8	109
Yalgoo, 120043	24	3.0	15.5	82	32	45	17	5.2	102	24	3.0	15.5	82	32	45	17	5.2	102	24	3.0	15.5	82	32	45	17	5.2	102
Tops	2	3.3	15.5	82	39	49	19	6.5	113	2	3.5	15.6	88	36	50	22	6.0	117	3	3.4	15.6	85	37	51	20	6.0	114
Seconds	6	3.0	15.8	82	31	48	18	5.3	102	9	3.1	15.6	79	31	49	19	5.5	103	6	2.9	15.1	81	30	46	17	5.8	102
Sales	8	3.0	15.5	82	31	44	17	4.5	98	7	3.0	15.5	84	32	41	15	4.6	100	6	2.9	15.7	84	33	44	16	4.5	97
Culls	8	2.9	15.2	81	32	43	17	5.6	103	6	2.6	15.2	81	30	44	17	5.3	97	9	2.9	15.5	80	30	44	18	5.0	100

Sire	Post Weaning Class Average LT Performance /A7 MP+ Index by Grade									Adult Class Average LT Performance /A7 MP+ Index by Grade									Adult 7 Class Average LT Performance /A7 MP+ Index by Grade								
	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+	N	CFW	FD	SL	SS	WT	EMD	WR	MP+
Yiddinga, 130374	21	2.9	16.2	83	34	50	20	5.5	103	21	2.9	16.2	83	34	50	20	5.5	103	21	2.9	16.2	83	34	50	20	5.5	103
Tops	2	3.2	17.1	91	41	54	23	6.0	106	1	3.3	17.9	98	45	57	22	6.0	104	4	2.9	16.3	86	39	51	19	6.0	108
Seconds	4	3.0	16.0	84	34	51	21	6.5	112	6	2.6	15.9	85	37	50	19	6.7	108	3	2.8	16.1	83	32	49	20	4.7	97
Sales	7	2.8	16.2	83	34	49	19	5.6	104	6	3.0	16.2	82	31	48	20	5.7	104	7	2.9	16.3	84	34	50	21	6.3	106
Culls	8	2.9	16.1	82	33	48	20	4.6	98	8	3.0	16.3	82	33	49	21	4.1	100	7	2.9	16.1	82	33	48	20	4.5	100
Total	438	3.2	16.6	85	33	50	20	5.3	100	438	3.2	16.6	85	33	50	20	5.3	100	435	3.2	16.6	85	33	50	20	5.3	100

Chris Bowman Change in Grade between Stages (and the % that stay the same between stages)

P to A	Top	Sec	Sal	Cul	Tot		P to A7	Top	Sec	Sal	Cul	Tot		A to A7	Top	Sec	Sal	Cul	Tot		
Billandri, 130087	2	3	4	3	12		Billandri, 130087	3	2	3	4	12		Billandri, 130087	3	2	3	4	12		
Tops	2	1			3		Tops	1	1		1	3		Tops		1			1	2	
Seconds		1		1	2		Seconds			1	1	2		Seconds	2				1	3	
Sales		1	1	1	3		Sales	1		1	1	3		Sales	1	1	2			4	
Culls			3	1	4	42%	Culls	1	1	1	1	4	25%	Culls			1	2	3		33%
Bogo, 111424	2	6	6	5	19		Bogo, 111424	3	4	6	6	19		Bogo, 111424	3	4	6	6	19		
Tops	1	1			2		Tops	1	1			2		Tops	2					2	
Seconds	1	2	1	1	5		Seconds	2		2	1	5		Seconds		1	3	2	6		
Sales		1	2	1	4		Sales		1		3	4		Sales		3	2	1	6		
Culls		2	3	3	8	42%	Culls		2	4	2	8	16%	Culls	1		1	3	5		42%
Bundaleer, 13V741	3	7	9	8	27		Bundaleer, 13V741	3	6	9	9	27		Bundaleer, 13V741	3	6	9	10	28		
Tops		3			3		Tops		2		1	3		Tops	2	1				3	
Seconds	3		3	2	8		Seconds	3	2	2	1	8		Seconds		2	1	5	8		
Sales		4	1	3	8		Sales			4	4	8		Sales		3	3	3	9		
Culls			5	3	8	15%	Culls		2	3	3	8	33%	Culls	1		5	2	8		32%
Bundilla, 111265	2	3	6	5	16		Bundilla, 111265	3	3	5	5	16		Bundilla, 111265	3	3	5	5	16		
Tops	1	1			2		Tops		1	1		2		Tops		1	1		2		
Seconds			2	2	4		Seconds	1	2		1	4		Seconds	1		2		3		
Sales		1	3		4		Sales	2		1	1	4		Sales	2		1	3	6		
Culls	1	1	1	3	6	44%	Culls			3	3	6	38%	Culls		2	1	2	5		19%
C Plus, 207316	2	4	6	6	18		C Plus, 207316	3	3	6	6	18		C Plus, 207316	3	3	6	6	18		
Tops	2	1			3		Tops	1	1	1		3		Tops	1		1		2		
Seconds		1	1		2		Seconds		1	1		2		Seconds	1	3			4		
Sales			3	2	5		Sales			1	4	5		Sales			4	2	6		
Culls		2	2	4	8	56%	Culls	2	1	3	2	8	28%	Culls	1		1	4	6		67%
Darriwell, 130941	1	3	4	2	10		Darriwell, 130941	3	1	3	3	10		Darriwell, 130941	3	1	3	3	10		
Tops	1				1		Tops	1				1		Tops	1				1		
Seconds			1		1		Seconds				1	1		Seconds	1		1	1	3		
Sales		3			3		Sales	1		1	1	3		Sales	1		2	1	4		
Culls			3	2	5	30%	Culls	1	1	2	1	5	30%	Culls		1		1	2		40%

P to A	Top	Sec	Sal	Cul	Tot		P to A7	Top	Sec	Sal	Cul	Tot		A to A7	Top	Sec	Sal	Cul	Tot	
Glenpn, 120042	2	4	2	1	9		Glenpn, 120042	1	2	3	3	9		Glenpn, 120042	1	2	3	3	9	
Tops	1				1		Tops	1				1		Tops	1		1		2	
Seconds							Seconds							Seconds		2	1	1	4	
Sales		3	1	1	5		Sales		2	1	2	5		Sales			1	1	2	
Culls	1	1	1		3	22%	Culls			2	1	3	33%	Culls				1	1	56%
Grefields, 130599	2	5	5	3	15		Grefields, 130599	3	2	5	5	15		Grefields, 130599	3	2	5	5	15	
Tops	1	1			2		Tops	1		1		2		Tops	1			1	2	
Seconds	1	1	1		3		Seconds		2		1	3		Seconds	1	1	2	1	5	
Sales		2	1		3		Sales	1		1	1	3		Sales	1	1	2	1	5	
Culls		1	3	3	7	40%	Culls	1		3	3	7	47%	Culls			1	2	3	40%
Hazeld, 11.43	3	5	5	8	21		Hazeld, 11.43	3	4	7	7	21		Hazeld, 11.43	3	4	7	7	21	
Tops	1	1		1	3		Tops		2	1		3		Tops	1		2		3	
Seconds							Seconds							Seconds	2	2		1	5	
Sales	1		4	5	10		Sales		1	4	5	10		Sales			3	2	5	
Culls	1	4	1	2	8	33%	Culls	3	1	2	2	8	29%	Culls		2	2	4	8	48%
Kurra-W, SR5681	3	4	3	6	16		Kurra-W, SR5681	3	3	5	5	16		Kurra-W, SR5681	3	3	5	5	16	
Tops		2	1		3		Tops	1		2		3		Tops	1	2			3	
Seconds	1				1		Seconds	1				1		Seconds	1		2	1	4	
Sales	1	1		1	3		Sales		2	1		3		Sales			1	2	3	
Culls	1	1	2	5	9	31%	Culls	1	1	2	5	9	44%	Culls	1	1	2	2	6	25%
Leahcim, 090918	3	6	5	7	21		Leahcim, 090918	3	4	7	7	21		Leahcim, 090918	3	4	7	7	21	
Tops	1	1			2		Tops		1		1	2		Tops		3			3	
Seconds	1	1	1	1	4		Seconds		1	1	2	4		Seconds	2		2	2	6	
Sales		2	3	2	7		Sales	1		4	2	7		Sales			4	1	5	
Culls	1	2	1	4	8	43%	Culls	2	2	2	2	8	33%	Culls	1	1	1	4	7	38%
Leahcim, 123153	3	6	5	7	21		Leahcim, 123153	3	4	7	7	21		Leahcim, 123153	3	4	7	7	21	
Tops		2		1	3		Tops			1	2	3		Tops	1		1	1	3	
Seconds	2	1	1		4		Seconds	1		2	1	4		Seconds	1	1	2	2	6	
Sales	1	1	4		6		Sales	1	2	2	1	6		Sales	1	2	1	1	5	
Culls		2		6	8	52%	Culls	1	2	2	3	8	24%	Culls		1	3	3	7	29%

P to A	Top	Sec	Sal	Cul	Tot		P to A7	Top	Sec	Sal	Cul	Tot		A to A7	Top	Sec	Sal	Cul	Tot		
Merinot, 100081	2	6	5	6	19		Merinot, 100081	3	4	6	6	19		Merinot, 100081	3	4	6	6	19		
Tops	1	1			2		Tops		1	1		2		Tops			1	1	2		
Seconds		4		1	5		Seconds	1	2	1	1	5		Seconds	1	3			2	6	
Sales	1		2	1	4		Sales	1	1	1	1	4		Sales	1		1	3	5		
Culls		1	3	4	8	58%	Culls	1		3	4	8	37%	Culls	1	1	4		6	21%	
Mokanger, 120092	3	4	2	5	14		Mokanger, 120092	3	2	4	4	13		Mokanger, 120092	3	2	4	4	13		
Tops		1			1		Tops	1				1		Tops		1	2		3		
Seconds	2		1		3		Seconds	1	1	1		3		Seconds	1		2		3		
Sales	1	2			3		Sales			2		2		Sales	1			1	2		
Culls		1	1	5	7	36%	Culls	1	1	1	4	7	62%	Culls	1	1		3	5	23%	
Moojepin, 100248	3	5	6	5	19		Moojepin, 100248	3	4	6	6	19		Moojepin, 100248	3	4	6	6	19		
Tops	1		1	1	3		Tops		1	2		3		Tops		2			1	3	
Seconds		1	1	1	3		Seconds	2			1	3		Seconds	1		2	2	5		
Sales	1	3	1		5		Sales			2	3	5		Sales	1	1	2	2	6		
Culls	1	1	3	3	8	32%	Culls	1	3	2	2	8	21%	Culls	1	1	2	1	5	16%	
Mumbleb, 130389	2	2	4	2	10		Mumbleb, 130389	2	2	3	3	10		Mumbleb, 130389	2	2	3	3	10		
Tops	1	1			2		Tops		1		1	2		Tops			1	1	2		
Seconds							Seconds							Seconds		1	1		2		
Sales	1		2	1	4		Sales	1		1	2	4		Sales	2	1		1	4		
Culls		1	2	1	4	40%	Culls	1	1	2		4	10%	Culls			1	1	2	20%	
Mumbleb, 130850	3	4	3	3	13		Mumbleb, 130850	2	2	3	4	11		Mumbleb, 130850	2	2	3	4	11		
Tops	1	2			3		Tops	1	2			3		Tops	2				1	3	
Seconds	1			1	2		Seconds				2	2		Seconds		2	1	1	4		
Sales	1	1	2	2	6		Sales	1		3	1	5		Sales			1	1	2		
Culls		1	1		2	23%	Culls				1	1	45%	Culls			1	1	2	55%	
Nareeb, 130380	0	3	5	3	11		Nareeb, 130380	2	3	2	4	11		Nareeb, 130380	2	3	2	4	11		
Tops		1	1		2		Tops	1	1			2		Tops							
Seconds							Seconds							Seconds	1	1	1		3		
Sales		1	3	3	7		Sales	1	1	1	4	7		Sales	1	1	1	2	5		
Culls		1	1		2	27%	Culls		1	1		2	18%	Culls		1		2	3	36%	

P to A	Top	Sec	Sal	Cul	Tot		P to A7	Top	Sec	Sal	Cul	Tot		A to A7	Top	Sec	Sal	Cul	Tot	
Nerst, 130467	2	6	7	5	20		Nerst, 130467	3	4	7	6	20		Nerst, 130467	3	4	7	6	20	
Tops		1	1		2		Tops	1		1		2		Tops			1	1	2	
Seconds	1		1		2		Seconds		1	1		2		Seconds	2	2	2		6	
Sales		3	3	1	7		Sales	2	1	1	3	7		Sales	1	2	1	3	7	
Culls	1	2	2	4	9	35%	Culls		2	4	3	9	30%	Culls			3	2	5	25%
One Oak, R56	2	6	9	7	24		One Oak, R56	4	5	7	8	24		One Oak, R56	4	5	7	7	23	
Tops	2				2		Tops	2				2		Tops	2				2	
Seconds		2	1		3		Seconds	1		2	1	4		Seconds	1	2	3		6	
Sales		3	7	1	11		Sales	1	5	3	2	11		Sales	1	3	3	2	9	
Culls		1	1	6	8	71%	Culls			2	5	7	42%	Culls			1	5	6	52%
Roseville P, 140019	1	5	5	5	16		Roseville P, 140019	3	3	5	5	16		Roseville P, 140019	3	3	5	5	16	
Tops		1	1		2		Tops				2	2		Tops			1		1	
Seconds			1	1	2		Seconds			2		2		Seconds	1	1	1	2	5	
Sales		2	1	2	5		Sales		3	2		5		Sales	2		2	1	5	
Culls	1	2	2	2	7	19%	Culls	3		1	3	7	31%	Culls		2	1	2	5	31%
T Mnt Dam, ESA004	2	6	7	7	22		T Mnt Dam, ESA004	3	5	7	7	22		T Mnt Dam, ESA004	3	5	7	7	22	
Tops	1				1		Tops				1	1		Tops		1		1	2	
Seconds		2	1	1	4		Seconds	3		1		4		Seconds	2		3	1	6	
Sales		2	3	3	8		Sales		3	2	3	8		Sales	1	3	2	1	7	
Culls	1	2	3	3	9	41%	Culls		2	4	3	9	23%	Culls		1	2	4	7	27%
Tuckw, 121021	2	4	8	5	19		Tuckw, 121021	3	4	6	6	19		Tuckw, 121021	3	4	6	6	19	
Tops		1	1		2		Tops			2		2		Tops	2				2	
Seconds			1	1	2		Seconds			2		2		Seconds	1		1	2	4	
Sales		1	2		3		Sales		1		2	3		Sales		2	3	3	8	
Culls	2	2	4	4	12	32%	Culls	3	3	2	4	12	21%	Culls		2	2	1	5	32%
Yalgoo, 120043	2	9	7	6	24		Yalgoo, 120043	3	6	6	9	24		Yalgoo, 120043	3	6	6	9	24	
Tops	1	1			2		Tops	2				2		Tops	2				2	
Seconds	1	4	1		6		Seconds	1	2	2	1	6		Seconds	1	2	1	5	9	
Sales		2	3	3	8		Sales		2	2	4	8		Sales		2	4	1	7	
Culls		2	3	3	8	46%	Culls		2	2	4	8	42%	Culls		2	1	3	6	46%

P to A	Top	Sec	Sal	Cul	Tot		P to A7	Top	Sec	Sal	Cul	Tot		A to A7	Top	Sec	Sal	Cul	Tot	
Yiddinga, 130374	1	6	6	8	21		Yiddinga, 130374	4	3	7	7	21		Yiddinga, 130374	4	3	7	7	21	
Tops	1		1		2		Tops			2		2		Tops			1		1	
Seconds		2	1	1	4		Seconds	2		2		4		Seconds	3		2	1	6	
Sales		3	2	2	7		Sales	1		2	4	7		Sales		1	3	2	6	
Culls		1	2	5	8	48%	Culls	1	3	1	3	8	24%	Culls	1	2	1	4	8	33%
Total	53	122	134	128	437		Total	72	85	135	142	434		Total	72	85	135	142	434	

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.

Balmoral 2015 Drop – AMSEA Grade – David Whyte Measured LIFETIME Performance by Grade (Drop Level) – Average Lifetime CFW, FD, SL, SS, WT, EMD, WR, A6 MP+ Index - followed by Ave LT Scored Dag, Bdwr, Char, Col, Flrot, Dust, Back, Legs, Face, Spig, Jaw

AMSEA Class – Post Weaning

Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	MP+
Top/Flock	321	3.2	16.6	86	33	50	3.1	20	5.3	100
Cull	118	3.1	16.5	83	32	48	3.1	19	5.1	98
Total	439	3.2	16.6	85	33	50	3.1	20	5.3	100

Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top/Flock	321	1.98	2.48	2.64	2.24	1.25	2.44	1.24	2.22	2.78	2.40	1.03
Cull	118	1.97	2.43	2.73	2.44	1.42	2.52	1.22	2.34	2.79	2.39	1.03
Total/Ave	439	1.98	2.47	2.66	2.29	1.30	2.46	1.23	2.25	2.78	2.40	1.03

AMSEA Class – Adult 2

Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	MP+
Top/Flock	357	3.2	16.6	86	33	50	3.1	20	5.4	101
Cull	82	3.1	16.6	81	31	49	3.2	20	4.9	96
Total	439	3.2	16.6	85	33	50	3.1	20	5.3	100

Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top/Flock	357	2.00	2.49	2.63	2.22	1.23	2.43	1.23	2.25	2.77	2.40	1.03
Cull	82	1.88	2.35	2.82	2.60	1.60	2.60	1.21	2.24	2.83	2.36	1.03
Total/Ave	439	1.98	2.47	2.66	2.29	1.30	2.46	1.23	2.25	2.78	2.40	1.03

Balmoral 2015 Drop – Professional Class – Bill Walker Measured LIFETIME Performance by Grade (Drop Level) – Average Lifetime CFW, FD, SL, SS, WT, EMD, WR, A6 MP+ Index - followed by Average Lifetime Scored Dag, Bdwr, Char, Col, Flrot, Dust, Back, Legs, Face, Spig, Jaw

Prof Class – Post Weaning

Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	MP+
Top Stud Second	258	3.2	16.7	86	33	51	3.2	20	5.5	101
Sale	143	3.1	16.5	84	33	49	3.1	20	5.0	98
Cull	38	3.0	16.2	81	32	46	3.1	18	4.8	97
Total	439	3.2	16.6	85	33	50	3.1	20	5.3	100

Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top Stud Second	258	1.96	2.44	2.64	2.28	1.27	2.46	1.23	2.22	2.74	2.40	1.02
Sale	143	1.98	2.48	2.67	2.29	1.31	2.46	1.24	2.26	2.83	2.43	1.04
Cull	38	2.09	2.60	2.76	2.42	1.41	2.49	1.21	2.40	2.91	2.22	1.02
Total/Ave	439	1.98	2.47	2.66	2.29	1.30	2.46	1.23	2.25	2.78	2.40	1.03

Prof Class – Adult 2

Grade	Count	CFW	FD	SL	SS	WT	FAT	EMD	WR	MP+
Top Stud Second	261	3.1	16.6	87	33	50	3.1	20	5.6	101
Sale	110	3.2	16.5	82	31	48	3.1	19	4.9	99
Cull	11	3.1	16.5	78	30	47	2.9	18	4.1	89
Total	382	3.2	16.6	85	33	50	3.1	20	5.3	100

Grade	Count	Dag	Bdwr	Char	Col	Flrot	Dust	Back	Legs	Face	Spig	Jaw
Top Stud Second	261	1.98	2.41	2.56	2.22	1.22	2.40	1.22	2.23	2.73	2.46	1.02
Sale	110	1.94	2.52	2.85	2.43	1.45	2.57	1.26	2.33	2.88	2.34	1.04
Cull	11	2.12	2.53	2.66	2.73	1.60	2.40	1.27	2.43	2.87	2.18	1.06
Total/Ave	382	1.98	2.47	2.66	2.29	1.30	2.46	1.23	2.25	2.78	2.40	1.03