

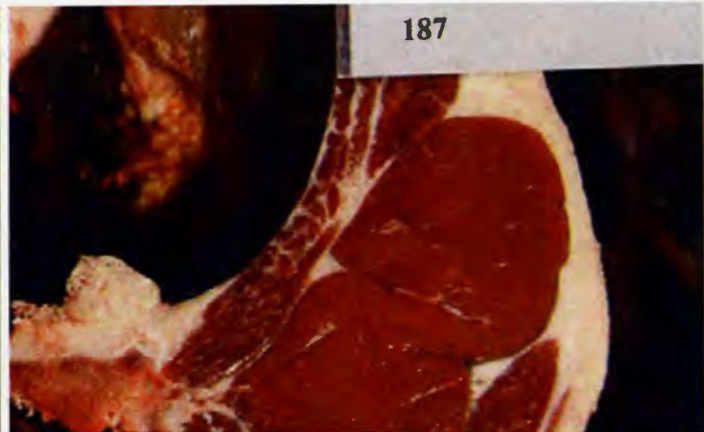


**RASV**

Royal Melbourne Show  
18-28 September 2010

# BEEF CARCASS

Catalogue







# RASV

## Royal Melbourne Show 18-28 September 2010 **BEEF CARCASE** Catalogue of Results

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## 2 BEEF CARCASE RESULTS

# BEEF CARCASE COMPETITION

## REGULATIONS OF BEEF CARCASE COMPETITION

1. The Regulations appearing in this Schedule form part of the General Regulations and conditions of entry to an Event at the Royal Melbourne Show. In the event of any inconsistency between the General Regulations and these Regulations, the General Regulations shall prevail to the extent of the inconsistency unless the General Regulations provide otherwise.

### CLOSE OF ENTRIES

2. Entries in the Beef Carcase Competition must be received at RASV's Administration Office, located at Melbourne Showgrounds, Epsom Rd, Ascot Vale, 3032 by no later than 5:00pm on Friday 10 July 2009. Entry Forms must be accompanied by all fees at this time.

### ENTRY FEES AND BEDDING FEES

3. Entry Fees for the Beef Carcase Competition are as follows:

Each Exhibit: \$50.00 (GST inc.) for RASV Members  
\$65.00 (GST inc.) for Non RASV Members

Bedding Fee: All Exhibitors are required to pay \$35.00 (GST inc.) for each Exhibit for bedding fees.

4. National Vendor Declaration must accompany livestock traveling to the Showgrounds for the purpose of this competition.

5. Steers and Heifers are eligible to compete, though eligibility for the Borthwick trophy teams precludes heifers.

6. Each Exhibit must be tractable, and shall be led for Judging.

### GENERAL RULES AND ARRANGEMENTS

7. The live classes will be representative of the four Market Categories for the carcase appraisal, as follows:

Market Category		HSCW (kg)	Actual fat depth (mm)		
			P8	11/12 Rib	12/13 Rib
<b>A</b>	<b>Light Domestic</b>	100 – 180	4 – 8	4 – 6	3 – 6
<b>B</b>	<b>Medium Domestic</b>	181 – 240	6 – 10	5 – 8	4 – 7
<b>C</b>	<b>Heavy Domestic</b>	241 – 300	8 – 13	6 – 10	5 – 9
<b>D</b>	<b>Export</b>	300+	12 – 17	8 – 13	7 – 12

8. All Exhibits will be weighed live early morning on Tuesday 22 September 2009.

9. The live classes will be finalised once all Exhibits have been weighed, and determined on manageable numbers as deemed by the RASV (approximately 20 Exhibits).

10. All Exhibits must be paraded live before the Judge to be eligible for judging on the hook.

11. Only entries exhibited by a recognised School, College or TAFE (School) will be eligible for the Schools' competition and awards.

12. School or College Exhibits denoted by (B&P) at the time of entry will be eligible for the Bred and Prepared trophy.

13. All Exhibitors shall state on their entry forms:

- the breed, cross of breeds or mixture of breeds;
- the birth date if known, otherwise the month born, of each animal entered so far as this is known;
- the name and breed of the sire and registration ID if known; and
- the name and breed of the dam and registration ID if known.

14. The RASV reserves the right to reject or limit entries at their absolute discretion, at any time, and for any reason. In this regard, Exhibitors are advised that accommodation for Beef Carcase Exhibits may be limited. If entries exceed the quantity that can be suitably accommodated, it may be necessary for the RASV to ballot entries. Exhibitors are also advised to read General Regulation 2.6.

15. For the purpose of this competition Hormone Growth Promotants are not permitted.

16. An animal or carcase which, in the opinion of the Chief Steward, shows secondary sex characteristics will be deemed to be a bull and will not be eligible for an award.

17. All Exhibits must be either polled or dehorned.

18. All Exhibits must comply with the Property Identification Code and National Livestock Identification Scheme legislation of Victoria. Exhibits not appropriately identified by means of an electronic identification will be deemed ineligible. The complete NLIS visual identification number must be provided at the time of entry.

19. The RASV reserves the right to insist that ineligible animals be removed from the Showgrounds at the expense of the Exhibitor upon request of the Chief Steward.

20. In order for Exhibits to be slaughtered, and therefore eligible for competition, Exhibitors must provide a National Vendor Declaration.

21. Subject only to the General Regulations, the Chief Steward reserves the right to make such determinations and directions on any matter in relation to the conduct of the Beef Carcase Competition, as he/she thinks fit.

22. The Chief Steward reserves the right to penalise, disqualify or make ineligible for an award any Exhibit in the Beef Carcase Competition that is determined to be outside of acceptable specifications in regard to weight, eye muscle area, meat colour, fat depth, fat colour, fat distribution and marbling.

23. All Exhibits shall either be rung through the nose or have a fitted nose clip, and at all times shall be led by such nose ring/nose clip. This includes the unloading of livestock upon arrival at the Showgrounds.

24. All Exhibits for the Beef Carcase Competition are required to be housed as directed at the Showgrounds. Any proposed departure from this requirement by an Exhibitor must receive prior written permission from the RASV.

25. A complete Timetable of Arrangements for the Beef Carcase Section will be forwarded to each Exhibitor prior to the Show. The timetable that appears in this Schedule is subject to change and will be finalised once an indication of entry numbers for this competition is obtained.

### JUDGING OF BEEF CARCASES

26. Carcases will be judged within the general parameters of the Australian Beef Carcase Appraisal System (ABCAS), incorporating carcase attributes relevant to Market Specifications and Meat Standards Australia (MSA) developed eating quality standards.

27. Animals entered in Carcase Competitions cannot comply with the pre-slaughter management guidelines of MSA pathways, so their carcases are not eligible for sale as MSA-graded beef. However, the principles of MSA grading will still be applied in judging the carcases, according to the following Schedule of maximum points:

1. Market Specification	20 points	3. MSA Eating Quality*	45 points, combined
P8 Fat Depth	10	Ultimate meat pH	Units
Meat Colour	5	Ossification Score	100 - 590
Fat Distribution	5	Tropical Breed Content	0 - 100%
Penalties	As required	Hump Height	mm
2. Saleable Meat Yield	35 points	AUS-MEAT Marbling	0 - 6
		MSA Marbling	100 - 1190
Rib Fat Depth	15	Sex	Male/Female
Eye Muscle Area	20	<b>Total</b>	<b>100 points</b>

28. To receive eating quality points all carcases must meet MSA minimum standards, as follows:

- Minimum 3mm of rib fat
- Adequate fat distribution
- Ultimate pH below 5.7
- Meat colour of 1b and no greater than 3

29. Carcases will not be penalised for bruising should any occur.

### ACQUISITION OF CARCASES

30. The RASV reserves the right to arrange the sale of carcases over the hooks using a grid system. Carcases are sold over the hook and a commission of 3.0% payable to the RASV will apply.



## BREED REFERENCES

AA - Angus	BW - British White	RA - Red Angus
AC - ABC Composite	BZ - Bazadaise	PH - Poll Hereford
AL - Australian Lowline	CC - Charolais	RP - Red Poll
AS - Australian Shorthorn	DX - Dexter	SD - South Devon
BA - Blonde D'Aquitaine	FF - Friesian	SG - Santa Gertrudis
BF - Braford	GA - Galloway	SI - Simmental
BG - Brangus	GV - Gelbvieh	SM - Simbrah
BL - Blonde D'Aquitaine	HH - Hereford	SS - Shorthorn
BS - Beef Shorthorn	LL - Limousin	SQ - Square Meaters
BV - Braunvieh	MG - Murray Grey	WB - Welsh Black

## ENTRIES

- 1 **BC & E M Atkins:** (MG), 15/09/09 Bred by B & E Atkins
- 2 **BC & E M Atkins:** (MG), 25/04/09 Bred by B & E Atkins
- 3 **BC & E M Atkins:** (MG), 29/09/08 Bred by B & E Atkins
- 4 **T R S & Mrs M A Baker:** (SI), 04/08/09 Bred by T R & E A Baker S: Woonallee Hadau A32, D: Woonallee Lithey 70
- 5 **Barham High School:** (BAXLL), 01/01/09
- 6 **Barham High School:** (SD), 17/07/09 Bred by D & C Crick S: Jembecca Chris, D: The Bend Callie
- 7 **Barham High School:** (LLXAA/HH), 01/01/09
- 8 **Barham High School:** (CC), 01/01/09 Bred by D Taylor
- 9 **Barham High School:** (CC), 01/01/09 Bred by D Taylor
- 10 **Barham High School:** (LLXAA/HH), 01/01/09
- 11 **Billabong High School:** (LL/AAXSS), 03/09/09 Bred by D Gomers
- 12 **Billabong High School:** (CCXSS), 13/05/09 Bred by L Plum
- 13 **Billabong High School:** (LL/LLXAA), 28/08/09 Bred by D Gomers
- 14 **Billabong High School:** (DXXAA), 28/08/09 Bred by C Lucas S: Billabong Xmas Jingles
- 15 **Billabong High School:** (LL/AAXSS), 13/09/09 Bred by D Gomers
- 16 **Billabong High School:** (LL), 25/09/09 Bred by Ramornie S: Wulf Polled Pack Leader
- 18 **Billabong High School:** (PH), 28/05/09
- 19 **Billabong High School:** (LL/AAXSS), 27/08/09 Bred by D Gomers
- 20 **Billabong High School:** (HH), 19/05/09 Bred by Miss I Webb S: Dunoon Pompeii
- 21 **Billabong High School:** (LL), 05/05/09 Bred by D Gomers S: Mandayan Guardian
- 22 **Billabong High School:** (AA), 20/09/09 Bred by B Eddy S: Geramy Toronto
- 23 **Billabong High School:** (LL), 08/11/09 Bred by D Gomers S: Mandayan Nobel Prize
- 24 **Bonnydale Simmental Farms:** (SI X AA), 28/06/09 Bred by Bonnydale Simmental Farms S: Bonnydale General Patton, D: Bonnydale A563
- 25 **P Brown & L Ward:** (SQ), 25/11/09 Bred by P Brown & L W Ward S: Meta Park Toyboy, D: Windridge Carla
- 26 **Mr & Mrs I & A Burnside:** (MG), 10/10/09 Bred by I & A Burnside S: Wiltshire Y5, D: Cratloe Linda
- 27 **Mr & Mrs I & A Burnside:** (MG), 25/10/09 Bred by I & A Burnside S: Wiltshire Y5, D: Cratloe Janice
- 28 **Chairo Christian School:** (LL/LLXAA), 16/09/09 Bred by B & A Gill S: Bruangil Park C817
- 29 **Chairo Christian School:** (LL/LLXRP), 08/09/09 Bred by B & A Gill S: Bruangil Park B756, D:
- 30 **Cootamundra High School:** (SQ), 10/06/09 Bred by Thurloo Park S: Thurloo Park Topgun, D: Thurloo Park Cappie
- 31 **Cootamundra High School:** (SQ), 25/07/09 Bred by Thurloo Park S: Thurloo Park Topgun, D: Thurloo Park Nicola
- 32 **Cootamundra High School:** (SQ), 01/08/09 Bred by Thurloo Park S: Thurloo Park Topgun, D: Thurloo Park Glow
- 33 **B T Davies:** (BSXCC), 12/10/09 Bred by B T Davies S: Malton Zulu 987
- 34 **B T Davies:** (BSXCC), 05/10/09 Bred by B T Davies S: Malton Zulu 987
- 35 **Miss A De Blauw:** (RA/SSXGV), 18/08/09 Bred by Ebony Lodge S: Ebony Lodge Beefmaker B52, D: Ebony Lodge Z194
- 36 **W A Doelle & Sons:** (SI), 25/03/09 Bred by W A Doelle & Sons S: Milkyway Hotshot
- 37 **W A Doelle & Sons:** (SI), 21/03/09 Bred by W A Doelle & Sons S: Milkyway Mikka
- 38 **W A Doelle & Sons:** (SI), 23/03/09 Bred by W A Doelle & Sons S: Milkyway Lucifer
- 39 **R Draper:** (RP), 28/08/09 Bred by R Draper S: Red Cactus Fireplace, D: Cypress Performer
- 40 **E J Angus:** (AA), 11/06/09 Bred by E J Angus S: Glenord Astron A5, D: Alvadale Thelma Z14
- 41 **E J Angus:** (AA), 23/04/09 Bred by E J Angus S: Glenord Astron A5, D: Alvadale Dawn Z5
- 42 **Emmanuel College:** (PH), 10/06/09
- 43 **Emmanuel College:** (HH), 17/04/09 Bred by W Weatherly
- 44 **Emmanuel College:** (HH), 20/05/09 Bred by D Jenkins
- 45 **Emmanuel College & K Hodge:** (HH), 29/07/09 Bred by S: Warringa Yakka
- 46 **Finley High School:** (HH), 01/01/10 Bred by J Doyle S: Glentrevor Advance
- 47 **Finley High School:** (LLXAA), 28/08/09 Bred by T Emerson S: Birubi A19
- 48 **Finley High School:** (SS), 30/10/09 Bred by H Huggins S: Wynyard Stockbroker
- 49 **Finley High School:** (SS), 16/08/09 Bred by G Knight S: Grawenjobar Basher, D: Grawenjobar Joanne 142nd
- 50 **Finley High School:** (CCXAA), 25/11/09 Bred by T Bull S: E.C. No Doubt
- 51 **Finley High School:** (BW), 07/08/09 Bred by R Anderson S: Murray Hut 432, D: Murray Hut 539
- 52 **Finley High School:** (BZXAA), 15/09/09 Bred by J Montgomery
- 53 **Finley High School:** (CC), 04/11/09 Bred by G Close
- 54 **Finley High School:** (BW), 02/05/09 Bred by I & D Holmes S: Ravenswood 298, D: Ravenswood 311
- 55 **Finley High School:** (SI), 23/03/09 Bred by T Baker S: Woonallee vicar 10, D: Woonallee 5110
- 56 **Finley High School:** (HH), 12/01/10 Bred by J Doyle S: Glentrevor Pompeii
- 57 **Finley High School:** (BW), 30/04/09 Bred by I & D Holmes S: Ravenswood 298, D: Ravenswood 328
- 58 **Finley High School:** (AA), 22/09/09 Bred by D Sexton
- 59 **Finley High School:** (BW), 06/05/09
- 60 **Geelong Grammar School Timbertop:** (AAXMG), 24/08/09 Bred by Geelong Grammar School Timbertop S: Aberdeen
- 61 **Geelong Grammar School Timbertop:** (MG), 16/09/09 Bred by Geelong Grammar School Timbertop S: Keighlians Swaledale
- 62 **Geelong Grammar School Timbertop:** (MG), 27/09/09 Bred by Geelong Grammar School Timbertop S: Keighlians Swaledale
- 63 **Geelong Grammar School Timbertop:** (MG), 24/09/09 Bred by Geelong Grammar School Timbertop S: Keighlians Swaledale
- 64 **Geelong Grammar School Timbertop:** (MG), 10/09/09 Bred by Geelong Grammar School Timbertop S: Keighlians Swaledale
- 65 **Geelong Grammar School Timbertop:** (MG), 08/09/09 Bred by Geelong Grammar School Timbertop S: Yamba Werewolf
- 66 **Geelong Grammar School Timbertop:** (MG), 13/09/09 Bred by Geelong Grammar School Timbertop S: Keighlians Swaledale
- 67 **Geelong Grammar School Timbertop:** (AAXMG), 21/08/09 Bred by Geelong Grammar School Timbertop S: Aberdeen
- 68 **Geelong Grammar School Timbertop:** (MG), 12/10/09 Bred by Geelong Grammar School Timbertop S: Timbertop B18
- 69 **Geelong Grammar School Timbertop:** (MG), 24/09/09 Bred by Geelong Grammar School Timbertop S: Timbertop B18



## 4 BEEF CARCASE RESULTS

- 70 **Glenormiston - South West Tafe:** (CC), 10/08/09 Bred by k & F Wheaton S: Mt William Beattie
- 71 **Glenormiston - South West Tafe:** (SS), 06/04/09 Bred by D Dawson S: Chatswood Park Winning Drive, D: Camaro Park Miss Starenia A1
- 72 **Glenormiston - South West Tafe:** (RP), 30/03/09 Bred by G Abbott S: Oakwood Zorba 2
- 73 **Glenormiston - South West Tafe:** (CC), 10/08/09 Bred by K & F Wheaton S: Mt William Beattie
- 74 **Glenormiston - South West Tafe:** (PH), 02/05/09 Bred by D Jenkin S: South Bukalong Wallace 2nd, D: South Bukalong 720
- 75 **Glenormiston - South West Tafe:** (SD), 10/10/09 Bred by Tesbury Partnership S: Glenstrae Erskine
- 76 **Glenormiston - South West Tafe:** (AA), 07/10/09 Bred by H Hicks S: Franc Angus
- 77 **Glenormiston - South West Tafe:** (SD), 05/10/09 Bred by Tesbury Partnership S: Glenstrae Erskine
- 78 **Glenormiston - South West Tafe:** (SS), 20/03/09 Bred by D Dawson S: Spry's Red Rocket, D: Camaro Park Cactus V6
- 79 **Mrs F Glover:** (AA), 05/11/09 Bred by F Glover S: Wattlewood Create C8, D: Wattlewood Sara C5
- 80 **Mrs F Glover:** (AA), 02/11/09 Bred by F Glover S: Wattlewood Create C8, D: Wattlewood Ella B14
- 81 **Grant High School:** (SI), 15/03/09 Bred by Woonallee Simmentals S: Woonallee Kruger, D: Woonallee 6176
- 82 **Grant High School:** (SI), 12/06/09 Bred by Six Creeks S: Woonallee Blaze
- 83 **Grant High School:** (SI), 16/06/09 Bred by Woonallee Simmentals S: Woonallee Hadau B89, D: Lochwood 209
- 84 **Gundagai High School:** (AAXMG), 20/08/09 Bred by S & M Luff S: Reiland Beguile B268
- 85 **Gundagai High School:** (AA), 27/07/09 Bred by Gundagai High School S: Bongongo NGXC27
- 86 **Gundagai High School:** (AA), 13/10/09 Bred by Gundagai Station S: Bongongo NGXC27
- 87 **Gundagai High School:** (AA), 21/09/09 Bred by Gundagai High School S: Bongongo NGXC27
- 88 **Gundagai High School:** (CCXAA/AAXHH), 10/10/09 Bred by J & D Elworthy
- 89 **Gundagai High School:** (AA), 29/04/09 Bred by Abingdon Station
- 90 **Harris Family:** (AS), 29/09/09 Bred by Harris Family S: Meadow Vale Falcon C21, D: Broome Italy Watermaid Y67
- 91 **Harris Family:** (AS), 30/10/09 Bred by S: Meadow Vale Eclipse, D: Meadow vale Cherry B21
- 92 **B E & L E Johnson:** (RP), 18/06/09 Bred by B E & L E Johnson S: Lynbarry Super Flynn, D: Lynbarry Matilda
- 93 **Kerang Technical High School:** (LLXAA), 01/09/09 Bred by A & M Van der Drift
- 94 **Kerang Technical High School:** (LLXAA), 01/09/09 Bred by A & M Van der Drift
- 95 **Kerang Technical High School:** (LL), 01/09/09 Bred by A & M Van der Drift
- 96 **Kerang Technical High School:** (LL), 01/09/09 Bred by A & M Van der Drift
- 97 **Kerang Technical High School:** (LL), 01/09/09 Bred by A & M Van der Drift
- 98 **Kerang Technical High School:** (HHXMG/FF), 01/09/09
- 99 **H King:** (RA/SSXGV), 17/08/09 Bred by Ebony Lodge S: Ebony Lodge Beefmaker B52, D: Ebony Lodge W155
- 100 **Longerenong College:** (SS), 25/08/09 Bred by Marschay Shorthorn S: Marschal Zenobia
- 101 **Longerenong College:** (CC), 27/02/09 Bred by Delamere Charolais S: Whites Lakes Mr Blue Nose, D: Delamere B37
- 102 **Longerenong College:** (CCXHH), 30/07/09 Bred by Longerenong College S: Palgrove Walkover
- 103 **Longerenong College:** (LLXPH), 04/08/09 Bred by Longerenong College S: Renard Gullit Sam
- 104 **Longerenong College:** (AA), 27/08/09 Bred by Werribee Agriculture S: Lawsons Fair Dinkum B1493
- 105 **Longerenong College:** (CCXAA), 01/09/09 Bred by Werribee Agriculture S: Paringa Wyoming Wind A76E
- 106 **Longerenong College:** (SG), 08/08/09 Bred by Riverslea Santa Gertrudis Stud S: Riverslea Crusader, D: Riverslea 90
- 107 **Longerenong College:** (LL), 04/04/09 Bred by J & J Repper S: Ramornie Explosion Y0010, D: Kensel Green cow
- 108 **Longerenong College:** (SSXAA), 15/04/09 Bred by D Brook S: Elora Sophisticated
- 109 **Longerenong College:** (RA), 31/08/09 Bred by Yonda Grange Red Angus S: Yonda Grange Consultant, D: Yonda Grange Hi Felicity
- 110 **Longerenong College:** (AA), 20/08/09 Bred by Werribee Agriculture S: Lawsons Tank B1108
- 111 **Longerenong College:** (CCXPH), 30/07/09 Bred by Longerenong College S: Mt William Action
- 112 **Longerenong College:** (CCXSS/HH), 27/07/09 Bred by Delamere Charolais S: Palgrove Walkover
- 113 **Longerenong College:** (SG), 22/08/09 Bred by Riverslea Santa Gertrudis Stud S: Riverslea Crusader, D: Riverslea 95
- 114 **Longerenong College:** (CC), 07/04/09 Bred by Ken Winfield S: Sedalia Wembly
- 115 **Longerenong College:** (SS), 17/04/09 Bred by D Dawson S: Eionmor Port O Call, D: Camaro Park DJZ11
- 116 **Marist-Sion College Warragul:** (MG/MGXFF/AA), 11/10/09 Bred by Marist-Sion College Warragul S: Jimbavale Rosco
- 117 **Marist-Sion College Warragul:** (LL), 03/11/09 Bred by Marist-Sion College Warragul S: Bruangil Park Carlos, D: Bruangil Park Bettina
- 118 **Marist-Sion College Warragul:** (MG), 26/10/09 Bred by Marist-Sion College Warragul S: Jimbavale Rosco
- 119 **Marist-Sion College Warragul:** (LLXAA), 10/04/09 Bred by Eden Park S: Eden Park Ben
- 120 **Marist-Sion College Warragul:** (MG), 24/07/09 Bred by Watermill Pastoral Co S: Orcadia Park Zodiac, D: Watermill Winipeg
- 121 **Marist-Sion College Warragul:** (BAXAA), 15/09/09 Bred by Gee Kay Stud S: Romarin
- 122 **Marist-Sion College Warragul:** (BAXHH), 10/12/09 Bred by Lone Pine S: Ashway Beleno
- 123 **Mc Kay Bros:** (SS), 20/10/09 Bred by Mckay Bros S: Battunga Statesman
- 124 **Mc Kay Bros:** (SS), 19/09/09 Bred by Mckay Bros S: Battunga Statesman
- 125 **D, J & R Mc Rae:** (MG), 01/01/09 Bred by D, J & R Mc Rae S: Lindsay Starbright Y47, D: Dajory Bidy
- 126 **Milsan Pty Ltd & F Glover:** (AA), 22/11/09 Bred by Milsan Pty Ltd S: Mvf Vrd Dateline 913P, D: Wooralla Park Acacia
- 127 **G C & V J Muller:** (SI), 21/02/09 Bred by G C & V J Muller S: Hook's Majestic 31M, D: Rellum Farms Merly
- 128 **Nagle College:** (LL), 23/10/09 Bred by D & G Freshwater S: Clifton View Yes
- 129 **Nagle College:** (HH), 11/08/09 Bred by K Davies S: Mawarra Right Wing
- 130 **Nagle College:** (HH), 15/10/09 Bred by J & P Sykes
- 131 **Nagle College:** (LL/LLXAA), 19/10/09 Bred by D & G Freshwater S: Clifton View Yes
- 132 **Nagle College:** (CC/AAXSI), 01/01/09 Bred by Cameron Bros
- 133 **Nagle College:** (HH), 26/06/09 Bred by J & C Cooper
- 134 **Nagle College:** (LL), 26/11/09 Bred by E Lissenden S: Mt Teken A518
- 135 **Nagle College:** (LLXAA), 04/11/09 Bred by A & B Gill S: Bruangil Park PB756
- 136 **Northern Melbourne Institute of TAFE:** (AA), 11/02/09 Bred by NMIT S: Connealy Lead On
- 137 **Northern Melbourne Institute of TAFE:** (SI), 16/09/09 Bred by Brenair Park
- 138 **Northern Melbourne Institute of TAFE:** (AA), 27/02/09 Bred by NMIT S: Strathewen Yellowstone A60
- 139 **Northern Melbourne Institute of TAFE:** (SI), 23/08/09 Bred by Brenair Park
- 140 **Northern Melbourne Institute of TAFE:** (SI), 19/09/09 Bred by Brenair Park



- 141 **Northern Melbourne Institute of TAFE:** (CCXRA), 15/09/09 Bred by Tarrawarra Abbey
- 142 **Northern Melbourne Institute of TAFE:** (AC), 26/09/09 Bred by R Cardile
- 143 **Northern Melbourne Institute of TAFE:** (RP), 26/09/09 Bred by R Draper S: Red Cactus Fireplace
- 144 **Northern Melbourne Institute of TAFE:** (CCXAA), 25/02/09 Bred by NMIT S: Glenlea Aim A13E
- 145 **P G & N M Phillips:** (SG), 08/08/09 Bred by P G & N M Phillips S: Myrtle Park Franklin, D: Myrtle Park 067
- 146 **P G & N M Phillips:** (SG), 11/09/09 Bred by P G & N M Phillips S: Myrtle Park Franklin, D: Myrtle Park 069
- 147 **P G & N M Phillips:** (SG), 25/08/09 Bred by P G & N M Phillips S: Myrtle Park Franklin, D: Myrtle Park 075
- 148 **Pine Gully Park Belted Galloway Stud:** (BG), 27/08/09 Bred by S: Okiwa Frank, D: Cumbria Buttermere Duchess
- 149 **R G & J Reeves:** (SG), 12/09/09 Bred by R G & J Reeves S: Myrtle Park Franklin, D: Myrtle Park 068
- 150 **Rural Industry Schools Training:** (HH), 27/06/09 Bred by Mawarra Herefords S: Monreid Quirk, D: Mawarra Doreen 270
- 151 **Rutherglen High School:** (WB), 15/04/09 Bred by Silver Metal Investments
- 152 **Rutherglen High School:** (WB), 30/04/09 Bred by C & T Sedgman S: Granite Ridge Judas, D: Granite Ridge Jade
- 153 **Miss L Salzke:** (LL/LLXAA), 11/08/09 Bred by Jaarnella Limousins S: Jaarnella Xerxes
- 154 **H A Seeley:** (CC), 03/04/09 Bred by H A Seeley S: Ashwood Park C23E
- 155 **H A Seeley:** (CCXAA), 05/08/09 Bred by H A Seeley S: Ashwood Park C24E
- 156 **Mrs L Senger-Whitehead:** (ALXPH), 19/02/09 Bred by Mrs L Senger-Whitehead S: Colombo Park Zaccaria, D: Colombo Park U9
- 157 **Mrs L Senger-Whitehead:** (AL), 06/07/09 Bred by Mrs L Senger-Whitehead S: Colombo Park Tannhauser, D: Colombo Park Zerlina
- 158 **Slopes Simmental Genetics:** (SA), 20/08/09 Bred by M Frankcombe S: Slopes A0408
- 159 **St Pauls College:** (SI X AA), 20/08/09 Bred by Woorinyan Pastoral
- 160 **St Pauls College:** (LLXLL/AA), 30/04/09 Bred by P & S Roe
- 161 **St Pauls College:** (LLXLL/AA), 15/04/09 Bred by P & S Roe
- 162 **St Pauls College:** (SSXSS/AA), 10/08/09 Bred by Outback Shorthorns S: Lachlan Mastercard
- 163 **Tasmanian Branch Simmental Association:** (SA), 05/08/09 Bred by M Dumaresq
- 164 **Tasmanian Branch Simmental Association:** (SI), 01/08/09 Bred by M Dumaresq
- 165 **Tesbury Partnership:** (SD), 16/09/09 Bred by Tesbury Partnership S: Glenstre Erskin, D: Tesbury B2
- 166 **Tesbury Partnership:** (SD), 24/09/09 Bred by Tesbury Partnership S: Tesbury X26, D: Tesbury B10
- 167 **The University of Adelaide:** (LL), 20/07/09 Bred by Foone Beef Genetics S: Mandayen Z438, D: Mandayen Special Wonders
- 168 **The University of Adelaide:** (AAXMG), 29/04/09 Bred by J & C Hassing S: Willalooka B646, D: Carrical C3
- 169 **The University of Adelaide:** (AAXLL), 27/09/09 Bred by Foone Beef Genetics S: Hidden Valley Connection B15, D: Mandayen Polled Mickey
- 170 **The University of Adelaide:** (MG), 21/06/09 Bred by G & J R Koopman S: Willalooka B492, D: Bottlesford T42
- 171 **The University of Adelaide:** (AAXLL), 26/09/09 Bred by Foone Beef Genetics S: Hidden Valley Connection B15, D: Foone Special C1
- 172 **Tippetts Glengyron:** (SS), 27/08/09 Bred by Tippetts Glengyron S: Sprys Pioneer, D: Broughton Park Joyce
- 173 **Tippetts Glengyron:** (SS), 14/01/10 Bred by Tippetts Glengyron S: Sprys Pioneer, D: Broome Jeans Weaten
- 174 **Topweight Grazing Co:** (SI), 14/03/10 Bred by Topweight Grazing Co. S: Topweight Yeoman, D: Topweight Bridget 78
- 175 **Topweight Grazing Co:** (SI), 06/04/09 Bred by Topweight Grazing Co. S: Willandra Awesome, D: Topweight Bettina 333
- 176 **Tumbywood Pty Ltd:** (BLXRA/SD), 11/01/10 Bred by Tumbywood Pty Ltd S: Kiahbelle Zirelle
- 177 **Tumbywood Pty Ltd:** (BLXCC/AA), 03/01/10 Bred by Tumbywood Pty Ltd S: Kiahbelle Zirelle, D:
- 178 **Tumut High School:** (LL), 09/09/09 Bred by M & M Parsons S: Deepfields Honey's Justice, D: Donna Valley Poll Krystal A504
- 179 **Tumut High School:** (AAXHH/AA), 01/08/09 Bred by R Purcell S: Ryland Chevalry
- 180 **VPC Cattle Services Pty Ltd:** (SIXRA), 12/06/09 Bred by VPC Cattle Services Pty Ltd S: Auscan Z0114
- 181 **VPC Cattle Services Pty Ltd:** (SIXRA), 05/06/09 Bred by VPC Cattle Services Pty Ltd S: Auscan Z0114
- 182 **VPC Cattle Services Pty Ltd:** (SMXRA), 19/10/09 Bred by VPC Cattle Services Pty Ltd S: Auscan B2
- 183 **VPC Cattle Services Pty Ltd:** (SI), 21/02/10
- 184 **Watermill Pastoral Co:** (MG), 01/01/09 Bred by Watermill Pastoral Co S: Orcadia Park Zodiac
- 185 **Windan Hill Simmental Stud:** (SIXRA), 01/01/09 Bred by Windan Hill Simmental Stud
- 186 **Windan Hill Simmental Stud:** (SI), 01/01/09
- 187 **Yanco Agricultural High School:** (CCXRA/CC), 20/08/09 Bred by Mc Donald Family S: Violet Hill Zambezi
- 188 **Yanco Agricultural High School:** (CCXRA/CC), 18/08/10 Bred by Mc Donald Family S: Violet Hill Zambezi
- 189 **Yanco Agricultural High School:** (RA), 15/11/10 Bred by Mc Donald Family S: Terone Churchill
- 190 **Yanco Agricultural High School:** (CCXRA/CC), 15/08/09 Bred by Rosedale Charolais
- 191 **Yanco Agricultural High School:** (RA), 10/08/09 Bred by Mc Donald Family S: Terone Churchill, D: RRA Princess
- 192 **Yanco Agricultural High School:** (SS), 05/08/09 Bred by Outback Shorthorns S: Lachlan Mastercard
- 193 **Yanco Agricultural High School:** (CCXRA/CC), 21/10/09 Bred by Mc Donald Family S: Violet Hill Zambezi
- 194 **Yanco Agricultural High School:** (LL), 24/11/09 Bred by L D & D P Gommers S: Mandayen Ionesco C927, D: Mandayen Waterlilly
- 195 **Yanco Agricultural High School:** (LL), 18/11/09 Bred by L D & D P Gommer S: Mandayen Ionesco C927, D: Ramornie Fyvie
- 196 **Yanco Agricultural High School:** (MG), 14/05/09 Bred by Gudgegong Park S: The Glen Ringleader, D: Gudgegong Park Linda
- 197 **Yanco Agricultural High School:** (AA), 27/04/09 Bred by The Glen Pastoral co S: The Glen Modest C97, D: The Glen Cherry C93
- 198 **Yanco Agricultural High School:** (CCXRA/CC), 10/08/09 Bred by Mc Donald Family S: Violet Hill Zambezi



# AWARDS FOR BEEF CARCASE COMPETITION

## AWARDS - LIVE

31. Awards will be provided for each of the ordinary classes as follows:
- Ribbons: - 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> places, plus Highly Commended and Commended.
  - Prize money: - 1<sup>st</sup> - \$25, 2<sup>nd</sup> - \$15, 3<sup>rd</sup> - \$10.
32. First and second placed Exhibits from the ordinary classes will then compete for the following awards, and presented with a Sash:

- Champion Light Domestic Steer or Heifer
- Reserve Champion Light Domestic Steer or Heifer
- Champion Medium Domestic Steer or Heifer
- Reserve Champion Medium Domestic Steer or Heifer
- Champion Heavy Domestic Steer or Heifer
- Reserve Champion Heavy Domestic Steer or Heifer
- Champion Export Steer or Heifer
- Reserve Champion Export Steer or Heifer
- Grand Champion Steer or Heifer

33. The highest placed School & College Exhibits from each ordinary class will then compete for the following awards:

- Champion School & College Steer or Heifer
- Reserve Champion Schools & College Steer or Heifer

34. The highest placed Schools Exhibits will be drawn only from the top five Exhibits in each live class, ie: 1<sup>st</sup> through to 3<sup>rd</sup>, Highly Commended and Commended. If a class does not have a School exhibit amongst these top five, then no Exhibit from that class will compete for Champion or Reserve Champion Schools Steer or Heifer awards.

## CARCASE AWARDS

35. Awards will be provided for each of the Light Domestic, Medium Domestic and Heavy Domestic and Export carcass divisions as follows:

- Prize money: - 1<sup>st</sup> - \$300, 2<sup>nd</sup> - \$150, 3<sup>rd</sup> - \$50

36. Sashes and wall plaques will also be awarded to:

- Champion Light Domestic Carcass
- Champion Medium Domestic Carcass
- Champion Heavy Domestic Carcass
- Champion Export Carcass
- Grand Champion Carcass
- Champion School & College Carcass

37. Wall plaques will be issued to the Exhibitors of the Grand Champion Carcass, and also to the Champion School & College Carcass

38. The Exhibitor of the Grand Champion Carcass will also be awarded \$1000 by The Royal Agricultural Society of Victoria.

## SCHOOL AND COLLEGE PARADERS COMPETITION

**Judge: Mr Chris Taylor**

**Stewards: Mr Tim Bayliss, Mrs Karen Bertoncello, Mrs Noeleen Branson, Mr Keith Dowsett, Mr Barry Godbolt, Mrs Noelene King, Mr Allen Snaith**

39. Students from each school or college entering steers or heifers in the Royal Melbourne Show Beef Carcass Competition may enter the School & College Paraders competition, which will be held on Monday 21 September 2009.

40. Upon receipt of Entry in the 2009 Beef Carcass Competition, those Exhibitors that are eligible (ie: Schools and Colleges) will be forwarded a separate Entry form pertaining to the School & College Paraders Competition.

41. Entries stating the name, age and school must be received at the RASV's Administration Office, located at Melbourne Showgrounds, Epsom Rd, Ascot Vale, 3032 by not later than 5:00pm on Friday 14 August 2009.

42. The number of students from each school or college is restricted to three for each steer or heifer exhibited (as opposed to entered). Points gained in this section contribute to the Most Successful School or College Exhibitor awards.

43. Classes will be arranged in suitable groups based on age.

44. Sashes will be awarded for:

- 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> in each class.
- Champion School & College Steer or Heifer Parader.
- Reserve Champion School & College Steer or Heifer Parader.

45. A Certificate of Participation will be awarded to all entrants. The RASV may choose to provide these Certificates after the completion of the Show.

## MOST SUCCESSFUL SCHOOL OR COLLEGE HOOF & HOOK EXHIBITOR.

46. The Bott-Burston perpetual trophy plus an annual replica will be awarded to the School or College gaining the highest total number of points in the School & College Paraders, Live Steer and Heifer, and Beef Carcass classes based on the following:

- 3 points for - 1st
- 2 points for - 2nd
- 1 points for - 3rd
- 2 points for - Grand Champion
- 3 points for - Champion
- 2 points for - Reserve Champion

## THE MARCUS OLDHAM COLLEGE TROPHY

47. The Marcus Oldham College perpetual trophy will be awarded to the highest scoring carcass entered by a school or college. The trophy will remain in the possession of the RASV, and a replica will be awarded to the winning school.

## THE NORTHERN MELBOURNE INSTITUTE OF TAFE TROPHY

48. The Northern Melbourne Institute of TAFE perpetual trophy will be awarded to the highest scoring school Bred and Prepared carcass. The trophy will remain in the possession of the RASV, and a replica will be presented to the winning school.

## THE BORTHWICK TROPHY

49. The Borthwick Trophy is celebrating its 57<sup>th</sup> year at the 2009 Royal Melbourne Show, and is widely recognised as the most prestigious interbreed steer and carcass award in Australia. The conditions of the competition are as under:

- The competition to be between teams of three purebred steers. Heifers are not eligible for the Borthwick Trophy.
- Steers to be led into the judging ring.
- Each team to be representative of any recognised Beef Cattle Breed.
- Each team to be selected from amongst the entries in the ordinary classes by a Breed Panel prior to live judging of these classes.
- Each breed to be represented by one team only.
- The results of both live and carcass judging will be considered in determining the winner of the Borthwick Trophy, with 25% of total points allocated for live judging and 75% of total points allocated for carcass appraisal. (Maximum points awarded by live judge - 100 points).
- Points gained by the steers in the carcass judging (maximum 300 points) to be added to the points awarded alive.
- The winner of the Borthwick Trophy will be the team that gains the highest aggregate points in both the live and carcass judging. (Maximum 400 points).
- The Borthwick Trophy to be competed for in perpetuity, and the name of the winning breed to be engraved on it each year. The Trophy to remain the property of The Royal Agricultural Society of Victoria Limited. A replica of the trophy will be presented to each of the Exhibitors of the winning team.

Past winners of the Borthwick Trophy are as follows:

1953	Angus	1982	Angus
1954	Angus	1983	Hereford
1955	Angus	1984	Angus
1956	Hereford	1985	Poll Hereford
1957	Angus	1986	Angus
1958	Angus	1987	Angus
1959	Angus	1988	Angus
1960	Poll Hereford	1989	Angus
1961	Angus	1990	Murray Grey
1962	Poll Hereford	1991	Charolais
1963	Angus	1992	Charolais
1964	Angus	1993	Murray Grey
1965	Angus	1994	Murray Grey
1966	Angus	1995	Murray Grey
1967	Murray Grey	1996	Murray Grey
1968	Angus	1997	Hereford
1969	Poll Shorthorn	1998	Shorthorn
1970	Poll Shorthorn	1999	Angus
1971	Hereford	2000	Murray Grey
1972	Murray Grey	2001	Shorthorn
1973	Murray Grey	2002	Shorthorn
1974	Angus	2003	Shorthorn
1975	Murray Grey	2004	Murray Grey
1976	Murray Grey	2005	Charolais
1977	Murray Grey	2006	Charolais
1978	Galloway	2007	Charolais
1979	Galloway	2008	Limousin
1980	Galloway	2009	Limousin
1981	Murray Grey		



# AUSTRALIAN BEEF CARCASE APPRAISAL SYSTEM (ABCAS)



The Australian Beef Carcase Appraisal System ranks beef carcasses on their overall merit, and gives feedback to producers about compliance to market specifications, the yield of saleable meat and the potential eating quality of the meat.

ABCAS combines the extensive experience of the NSW Department of Primary Industries in carcase judging and evaluation with the advanced technology of the world's most comprehensive grading system, Meat Standards Australia (MSA). Practices to improve and optimise meat quality have come directly from research by the Co-operative Research Centre (CRC) for Beef Quality.

ABCAS focuses on the factors that producers can control. In commercial grading, MSA accounts for many factors that affect eating quality but which the producer cannot control, such as pre-slaughter management, livestock handling, hanging method, chilling and ageing.

As far as possible, carcase competitions and educational activities should be structured in accordance with MSA grading requirements to optimise meat quality and demonstrate best practice. Please note that although ABCAS provides grading information on all carcasses, in many competitions they will not be eligible for sale as MSA-graded beef, either because they do not meet MSA licensing conditions, or because they cannot meet requirements for pre-slaughter management (e.g. no mixing of different mobs of cattle, and direct delivery from farm to abattoir).

To assess market suitability, the basic specifications of a carcase are judged for compliance against the specifications of the appropriate market category.

## 1. Compliance to Market Specifications (20 points total)

Most markets require carcasses to meet basic specifications of age (dentition), sex, weight and P8 (rump) fat depth. Dentition is usually checked in the live cattle, and is not part of the carcase assessment, while some markets specify only steers.

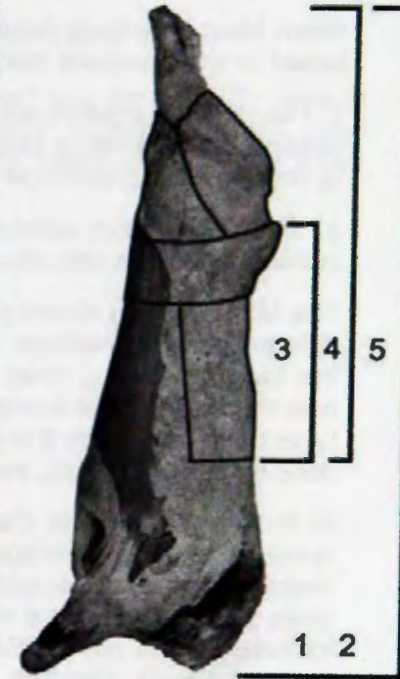
**1.1 P8 Fat Depth (10 points)** is measured on the hot carcase at the P8 site, over the rump, and is the method of describing fatness in the AUS-MEAT national carcase description language. It is commonly used to set market targets and for payment of premiums and discounts. Optimum P8 fat depth is the range set for each class (Market Category) in the carcase specifications.

**1.2 Meat Colour (5 points)** is recorded using AUS-MEAT standard meat colour chips in a range of 1a (very pale) to 7 (very dark purple). Colour strongly influences consumer appeal, with bright, pinkish colours in the range 1b to 3 being most acceptable to consumers. Carcasses must meet the MSA specification of Meat colour 1b to 3 to receive eating quality points.

**1.3 Fat Distribution (5 points)** Ideally, a carcase will have a thin, even fat cover over all the important cuts, especially over the rump and forward along the backline. This contributes to eating quality by slowing the chilling rate, and reduces weight loss due to dehydration as the carcase chills.

Carcasses will lose points for inadequate cover, or for heavy, wastey deposits. Key areas for assessment of excessive fat deposits are the subcutaneous fat (especially over the ribs), intermuscular (seam) fat and internal fat in the cod, udder, ribs and brisket.

Points	Description
5	Meets minimum fat requirements with good even fat cover over entire body, without excess deposits of subcutaneous or seam fat.
4	Meets minimum fat requirements with good even cover over the butt.
3	Meets minimum fat requirements with fat cover over major primals, Cube roll, Striploin and Rump.
2	Lean carcasses or carcasses with uneven fat distribution. Also carcasses with some excess fat deposits or seam fat.
1	Fails to meet minimum fat requirements or overfat carcasses with excessive fat deposits.
0	Extremely lean or extremely fat, wastey carcasses.



\* Carcasses must have adequate fat cover over the highlighted areas to receive maximum points.

**1.4 Fat Colour** is recorded for your information at the end of the eating quality section but has no direct impact on eating quality; excessive yellowing or softness may affect the saleability of the carcase. Fat colour is assessed on the internal seam fat at the quartered site using the AUS-MEAT chips and ranges from 0 (bright white) to 9 (very yellow).

There are no points allocated for fat colour but individual competitions may apply penalty points (max. 5) if a carcase exceeds Fat colour 3 or if a market specification for fat colour is set.

**1.5 Penalties** may be applied to carcasses that:

- fall outside the specified weight range (usually 1 point per kg outside)
- Exceed Fat colour 3 or fall outside the specified fat colour range
- Show Secondary Sexual Characteristics (bull or stag)
- Fall outside specifications for dentition
- Exhibit obvious defects, e.g. bruising, blood splash, injection site damage.

## 2. Saleable Meat Yield (35 points total)

Saleable meat yield is the proportion of the carcase that is saleable as primal cuts and meat trimmings. It excludes bone and waste fat. High-yielding carcasses are preferred, and they are heavily muscled with a thin, even fat cover, but the fat depth and distribution must be adequate to meet quality requirements.

**2.1 Rib Fat Depth (15 points)** is a good indicator of carcase yield with over-fat animals having lower yields. It is measured in millimetres at the quartering site (usually 10/11th or 12/13th rib). Optimum rib fat depth is the range set for each class (Market Category) in the specifications. To receive eating quality points, carcasses must meet the MSA minimum standard of 3mm at the quartering site.

**2.2 Eye Muscle Area (20 points)** is a good indicator of the red meat content of the carcase. It is measured in square centimetres at the quartering site (10/11th or 12/13th rib) and points awarded according to the area measured in relation to the carcase weight. The larger the rib eye area in relation to the carcase weight the higher the points awarded.



### 3. MSA Eating Quality (45 points, combined)

When Meat Standards Australia (MSA) grades a carcass, grading is based on the principles that:

1. The potential meat quality of an animal must be realised as far as possible by minimising stress between farm and slaughter, and by optimising chilling/electrical stimulation conditions during processing
2. There are known variable factors that affect the eating quality of individual muscles and adjustments are made for their effect.

The MSA Grading Model predicts eating quality of 40 muscles by 6 different cooking methods. It applies all our current knowledge about the factors affecting meat quality – which muscles they affect, by how much, and what interactions there are with other factors. These have been defined by a large research effort and more than 439 000 consumer product tests, involving some 62 800 consumers.

In the Australian Beef Carcase Appraisal System the MSA eating quality score is the average predicted MSA eating quality score of 11 major primal cuts, cooked by their optimum method. Scores have been scaled to deliver a maximum of 45 points for eating quality. If carcasses fail to meet MSA minimum requirements, they are below the benchmark standard for high quality table beef and will not receive an eating quality score.

#### ***Eating quality variables and their effect***

*In commercial grading, once cattle have been slaughtered and have met processor requirements for eligibility, the grader enters information about each carcass and the MSA Model predicts the eating quality of each cut (visit [www.msagrading.com](http://www.msagrading.com) for further details). Predictions are scientifically based and validated by the extensive MSA consumer testing program.*

*Processor requirements include:*

1. Meeting the MSA pH decline “window” – the rate of chilling and amount of electrical stimulation to optimise meat quality, determined by CRC research)
2. Cattle must be from a licensed producer / saleyard and must be accompanied by an MSA vendor declaration.
3. Direct consignment cattle must be killed the day after dispatch.
4. No mixing or drafting of different mobs of cattle.

*Please note that the structure of some competitions may preclude the carcasses from commercial grading. In this case, the assessments are provided for education and feedback.*

#### **3.1 Ultimate pH**

pH is a measure of acidity / alkalinity levels of the meat. It is very important for keeping quality (shelf life) and is related to its cooking properties, colour and consumer acceptance.

After slaughter, the reserves of glycogen (energy) in the animals' muscles are converted to lactic acid, causing the pH to fall. As long as there is adequate glycogen present at slaughter, the pH will fall to within the normal range of 5.4 to 5.7. If there is not enough glycogen (due to stress or poor nutrition) then pH will remain above the acceptable limit of pH 5.70 and the meat is likely to be dark in colour, with poor keeping quality.

High pH meat is more difficult to cook to the right degree of doneness. At the same temperature as a cooked normal steak, it appears much rarer and if further cooked will lose its juices and become tough and dry.

- MSA rejects carcasses with pH over 5.70
- A slight downward adjustment is made to eating quality of all cuts from carcasses high in the acceptable 5.70 range.
- To maintain high glycogen levels it is important to maintain a high level of nutrition and water prior to slaughter and minimise transport and handling stress.

#### **3.2 Ossification (maturity) and Carcase Weight**

Ossification score is a measure of physiological maturity of the beef carcass. Hot Standard Carcase Weight (HSCW) is used in conjunction with the ossification score to identify carcasses with greater weight for maturity - faster grown cattle have better eating quality.

As beef cattle mature the cartilage present around the bones of the spinal column gradually change into bone (ossify). The rate at which this occurs is reasonably predictable but is affected by factors such as sex and nutrition. The scale of ossification runs from 100 to 590.

Cuts from carcasses with lower ossification at the same weight are graded higher. Increasing ossification has a cut-by-cut effect with a high effect on some cuts (e.g. rump) and a low effect on others (e.g. oyster blade).

Ossification score is influenced by a number of other factors:

- Heifers tend to have higher ossification scores at the same age compared to steers
- Hormonal Growth Promotants (HGP) - treatment tends to increase ossification scores
- Nutritional setbacks or injury can increase ossification score, and this is not reversible.

Ossification score is assessed at three different locations on the sawn chine: the 5 sacral vertebrae (Tail), 6 Lumbar (back) and first 13 thoracic vertebrae (ribs).

#### **3.3 Tropical Breed Content (TBC) % and Hump Height**

MSA data clearly shows that cattle with tropical breed content have a higher risk of delivering “unacceptable” beef to consumers. Research by the Beef CRC has found that these breeds do carry more genes associated with toughness, but if animals are well managed before slaughter and optimally processed, the differences are small.

MSA research has determined that the major negative effect is toughening of the striploin, cube roll, tenderloin and oyster blade – all high value grilling cuts. The effect is smaller in the cuts with higher connective tissue such as brisket, topside, outside (silverside) and eye round.

The percentage of tropical breed content is taken into account by the grading model in combination with other factors. All cuts from 100% tropical breeds can still meet acceptable MSA consumer standards if the cattle are within age and fat limits and optimum eating quality interventions such as tenderstretch hanging, and ageing of cuts, are applied.

In crossbred cattle the hump height is an easily measured indicator of the percentage tropical breed content (TBC %). Animals of the same TBC can show different levels of visible traits such as hump, pizzelle and ear length. Analysis of MSA data has confirmed that when adjusted for carcass weight, hump height can also be used to estimate the ‘tropical breed effect’ on eating quality. Hump height is measured in increments of 5mm on the hump muscle (*M. Rhomboideus*) on the animals' neck.

The tropical breed content (TBC) is supplied by the producer on the MSA Vendor Declaration or as the breed description on the competition entry form. Values are expressed as a percentage: 0, 12, 18, 25, 38, 50, 75, 100.

The grading model adjusts hump height for carcass weight and ossification, then checks this against the declared TBC% and applies whichever is the greater of the two eating quality adjustments.



### 3.4 MSA and AUS-MEAT Marbling Score

Marbling is the intramuscular fat (IMF), which appears as fine flecks within the muscle. It is deposited unevenly throughout the body, increasing through the carcass towards the neck and decreasing towards the tail. As cattle fatten, deposits accumulate in all the main fat depots (under the skin, around the internal organs, between the muscles and inside the muscles) but some cattle have the genetic ability to favour the development of marbling within the muscles.

To maximise marbling, cattle must be on good nutrition, at least during the finishing stage, and well finished.

MSA research associates increased marbling to higher eating quality scores for many grilling and roasting cuts. The effect is greatest in the loin cuts (cube roll and striploin) but it is possible to achieve good eating quality without visible marbling.

The MSA grader assesses marbling on the exposed rib eye (eye-muscle) at the quartering site.

AUS-MEAT marbling is assessed on a scale of 0 to 6, reported in tenths within each score, and is based on the total amount of marbling within the eye muscle.

An MSA-specific marbling score is also given on a scale of 100 to 1190, in increments of 10, with emphasis on its fineness and how it is distributed. This is thought to relate more closely to eating quality.

### 3.5 Sex

There are small differences in eating quality between steers and heifers, other factors being equal. Although small, the effect of sex is rather complex, with heifers having a lower eating quality in some muscles and higher in others compared to steers.

The biological basis for the sex effect is not clear at this stage.

### 3.6 Rib Fat

In ABCAS, Rib fat depth is primarily used as an indicator of saleable meat yield, but it also plays two roles in eating quality. Firstly, MSA requires a minimum of 3mm of subcutaneous fat at the quartering site with even fat distribution required over the entire body. This fat cover helps avoid eating quality problems caused by a rapid or irregular pattern of chilling (see fat distribution). Secondly, fatter carcasses have slightly improved eating quality, over and above that associated with marbling and in this case a small upward adjustment is made to the grilling cuts.

### 3.7 Other variable factors affecting eating quality

There are other factors affecting eating quality in the MSA model, but most are usually constant across competition groups, or are outside the producer's control. The factors include:

#### 3.7.1 Hang Method

Tenderstretch hanging (from the pelvis) has a number of significant advantages over the traditional hanging from the Achilles tendon (AT or hock), including:

- Significant improvement in eating quality from most of the major high-priced cuts
- A reduced need for post-slaughter ageing to improve eating quality
- Significant improvement in eating quality of tropical breed types
- Counteracts the negative eating quality effects of hormonal growth promotants (HGP)

#### 3.7.2 Hormonal Growth Promotants (HGPs)

HGPs have a negative effect on eating quality, especially in the grilling cuts, and this effect will soon become part of the eating quality calculation in the MSA model.

#### 3.7.3 Milk Fed Vealer (MFV)

Unweaned calves produce beef with better eating quality compared to weaned calves of similar age and fatness. The MSA model adjusts scores for all cuts.

#### 3.7.4 Saleyards

The extra stress of saleyard handling compared to direct transport from farm to abattoir has been shown to reduce eating quality. The MSA model adjusts scores across the carcass.

#### 3.7.5 Ageing

Storing beef carcasses or vacuum-packed cuts for up to 21 days at 0-1°C improves tenderness. Improvement is greatest in AT hung carcasses, in those with higher tropical breed content and those treated with HGPs.



# 2010 ROYAL MELBOURNE SHOW BEEF CARCASS COMPETITION LIVE CHAMPION AWARDS

## GRAND CHAMPION STEER OR HEIFER

Exhibit 193, Yanco Agricultural High School, (Charolais x Red Angus/Charolais)

## CHAMPION LIGHT DOMESTIC STEER OR HEIFER

Exhibit 25, P. Brown and L. Ward (Square Meaters)

## RESERVE CHAMPION LIGHT DOMESTIC STEER OR HEIFER

Exhibit 46, Finley High School, (Hereford)

## CHAMPION MEDIUM DOMESTIC STEER OR HEIFER

Exhibit 117, Marist-Sion College Warragul, (Limousin)

## RESERVE CHAMPION MEDIUM DOMESTIC STEER OR HEIFER

Exhibit 131, Nagle College, (Limousin/Limousin x Angus)

## CHAMPION HEAVY DOMESTIC STEER OR HEIFER

Exhibit 193, Yanco Agricultural High School, (Charolais x Red Angus/Charolais)

## RESERVE CHAMPION HEAVY DOMESTIC STEER OR HEIFER

Exhibit 198, Yanco Agricultural High School, (Charolais x Red Angus/Charolais)

## CHAMPION EXPORT STEER OR HEIFER

Exhibit 144, Northern Melbourne Institute of TAFE, (Charolais x Angus)

## RESERVE CHAMPION EXPORT STEER OR HEIFER

Exhibit 183, VPC Cattle Services, (Simmental)

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### CLASS 1 Light Domestic 281kg – 311kg Live

- 1<sup>st</sup> 25 P Brown & L Ward (SQ)
- 2<sup>nd</sup> 46 Finley High School (HH)
- 3<sup>rd</sup> 157 L Senger-Whitehead (AL)

### CLASS 2 Medium Domestic 322kg-378kg Live

- 1st 194 Yanco Agricultural High School (LL)
- 2nd 33 B T Davies (BSxCC)
- 3rd 35. A DeBlaw (RAXGV)

### CLASS 3 Medium Domestic 379kg-398kg Live

- 1st 177 Marist-Sion College Warragul (LL)
- 2nd 148 Pine Gully Park Belted Galloway Stud (BG)
- 3rd 53 Finley High School (CC)

### CLASS 4 Medium Domestic 400kg-413kg Live

- 1st 195 Yanco Agricultural High School (LL)
- 2nd 80 F&J Glover (AA)
- 3rd 126. Milsan Pty Ltd & F&J Glover (AA)

### CLASS 5 Medium Domestic 415kg-429kg Live

- 1st 131 Nagle College (LLxAA)
- 2nd 187 Yanco Agricultural High School (CCxRA)
- 3rd 15 Billabong High School (LLxSS)

### CLASS 6 Heavy Domestic 432kg-452kg Live

- 1st 23 Billabong High School (LL)
- 2nd 13 Billabong High School (LLxAA)
- 3rd 11 Billabong High School (LLxS:S)

### CLASS 7 Heavy Domestic 453kg-466kg Live

- 1st 171 The University of Adelaide (AAxLL)
- 2nd 155 H A Seeley (CCxAA)
- 3rd 30 Cootamundra High School (SQ)

### CLASS 8 Heavy Domestic 467kg-489kg Live

- 1st 193 Yanco Agricultural High School (CCxRA)
- 2nd 28 Chairo Christian School (LLxRA)
- 3rd 141 Northern Melbourne Institute of TAFE (CCxRA)

### CLASS 9 Heavy Domestic 491kg-506kg Live

- 1st 188 Yanco Agricultural High School (CCxRA)
- 2nd 140 Northern Melbourne Institute of TAFE (SI)
- 3rd 184 Watermill Pastoral Company (MG)

### CLASS 10 Heavy Domestic 506kg-536kg Live

- 1st 198 Yanco Agricultural High School (CCxRA)
- 2nd 96 Kerang Technical High School (LL)
- 3rd 24 Bonnydale Simmental Farms (SIXAA)

### CLASS 11 Export 546kg-566kg Live

- 1st 93 Kerang Technical High School (LLxAA)
- 2nd 95 Kerang Technical High School (LL)
- 3rd 50 Finley High School (CCxAA)

### CLASS 12 Export 570kg-628kg Live

- 1st 167 The University of Adelaide (LL)
- 2nd 139 Northern Melbourne Institute of TAFE (SI)
- 3rd 160 St Pauls College (LLxAA)

### CLASS 13 Export 650kg-728kg Live

- 1st 144 Northern Melbourne Institute of TAFE (CCxAA)
- 2nd 183 VPC Cattle Services (SI)
- 3rd 154 H A Seeley (CC)



# SCHOOL AND COLLEGE AWARDS

## MOST SUCCESSFUL SCHOOLS OR COLLEGE EXHIBITOR

### THE BOTT-BURSTON TROPHY

Yanco Agricultural High School

## CHAMPION SCHOOLS LED STEER OR HEIFER

193, Yanco Agricultural High School, (Charolais x Red Angus/Charolais)

## RESERVE CHAMPION SCHOOLS LED STEER OR HEIFER

Exhibit 117, Marist-Sion College Warragul, (Limousin)

School	1st 3 points		2nd 2 points		3rd 1 point		Grand Champion 2 points		Champion 3 points		Reserve Champion 2 points		Total
Barham High School		0		0		0		0		0		0	0
Billabong High School	1	3	1	2	1	1		0		0		0	6
Yanco Agricultural High School	8	24	3	6	2	2	1	2	1	3	1	2	39
Chairo Christian School		0	1	2		0		0		0		0	2
Nagle College	2	6	2	4	1	1		0		0	1	2	13
Longerenong College		0		0	1	1		0		0		0	1
Marist-Sion College Warragul	4	12		0		0		0		0		0	12
Tumut High School		0		0		0		0		0		0	0
The University of Adelaide	3	9	1	2		0		0	1	3		0	14
Finley High School	1	3	4	8	2	2		0		0		0	13
Rutherglen High School		0		0		0		0		0		0	0
Rural Industries Skills Training		0	1	2		0		0		0		0	2
St Pauls College		0		0		0		0		0		0	0
Emmanuel College		0		0		0		0		0		0	0
Northern Melbourne Institute of TAFE	2	6	2	4	2	2		0	1	3		0	15
Gundagai High School		0		0	1	1		0		0		0	1
Cootamundra High School		0		0	1	1		0		0		0	1
Kerang Technical High School	1	3	2	4	1	1		0		0		0	8
Geelong Grammar School Timbertop		0		0		0		0		0		0	0
Glenormiston Campus South West TAFE		0		0		0		0		0		0	0
Grant High School		0		0	1	1		0		0		0	1



**SCHOOL AND COLLEGE PARADERS AWARDS**

**CHAMPION SCHOOL STEER OR HEIFER PARADER**

Jake Phillips (The University of Adelaide)

**RESERVE CHAMPION SCHOOL STEER OR HEIFER PARADER**

Chris Nichols (Nagle College)

**CLASS 1**

- 1<sup>st</sup> Chris Nichols (Nagle College)
- 2<sup>nd</sup> Ward Morel (NMIT)
- 3<sup>rd</sup> Paul Madhieu (NMIT)

**CLASSES 2, 3 and 4**

- 1<sup>st</sup> Jake Phillips (The University of Adelaide)
- 2<sup>nd</sup> Talisa McArdile (The University of Adelaide)
- 3<sup>rd</sup> Hannah Bridges (NMIT)

**CLASSES 5 and 6**

- 1<sup>st</sup> Cayde Cheney (Billabong High School)
- 2<sup>nd</sup> Kelly Christie (Nagle College)
- 3<sup>rd</sup> Alice Ingram (Longerenong College)

**CLASSES 7 and 8**

- 1<sup>st</sup> Amelia DeBlauw (Marist-Sion College Warragul)
- 2<sup>nd</sup> Aidan Wilson (Nagle College)
- 3<sup>rd</sup> Jessie Trent-Smith (St Pauls College)

**CLASSES 9, 10, 11 and 12**

- 1<sup>st</sup> Hannah Powe (Yanco Agricultural High School)
- 2<sup>nd</sup> Kendall Purcell (Finley High School)
- 3<sup>rd</sup> Christopher Muller (Grant High School)

**CLASSES 13, 14 and 15**

- 1<sup>st</sup> Jonothan Murdoch (Yanco Agricultural High School)
- 2<sup>nd</sup> Lachlan Garwood (Yanco Agricultural High School)
- 3<sup>rd</sup> Harley Smart (Gundagai High School)

**CLASSES 16, 17, 18 and 19**

- 1<sup>st</sup> Hayden King (Marist Sion College Warragul)
- 2<sup>nd</sup> Brandon Sykes (RIST)
- 3<sup>rd</sup> Charlotte Close (Finley High School)

**CLASSES 20, 21 and 22**

- 1<sup>st</sup> Daniel O'Leary (Finley High School)
- 2<sup>nd</sup> Jeremy Robertson (Finley High School)
- 3<sup>rd</sup> Darcy Booth (Yanco Agricultural High School)

**CLASSES 23, 24 and 25**

- 1<sup>st</sup> Georgina Murdoch (Yanco Agricultural High School)
- 2<sup>nd</sup> Ben Montgomery (Finley High School)
- 3<sup>rd</sup> Jack Phippen (Yanco Agricultural High School)



# BEEF CARCASE CHAMPION AWARDS

## GRAND CHAMPION CARCASE

Exhibit 153, Letisha Salzke (Limousin/Limousin x Angus) - 91.181 points

## CHAMPION LIGHT DOMESTIC CARCASE

Exhibit 25, P. Brown and L. Ward (Square Meaters) - 83.853 points

## CHAMPION MEDIUM DOMESTIC CARCASE

Exhibit 122, Marist-Sion College Warragul (Blonde d'Aquitaine x Hereford) - 89.605 points

## CHAMPION HEAVY DOMESTIC CARCASE

Exhibit 153, Letisha Salzke (Limousin/Limousin x Angus) - 91.181 points

## CHAMPION EXPORT CARCASE

Exhibit 139, Northern Melbourne Institute of TAFE (Simmental) – 90.881 points

## CHAMPION SCHOOLS CARCASE

### *THE MARCUS OLDHAM COLLEGE TROPHY*

Exhibit 139, Northern Melbourne Institute of TAFE (Simmental) – 90.881 points

## HIGHEST SCORING SCHOOL BRED AND PREPARED CARCASE

### *THE NORTHERN MELBOURNE INSTITUTE OF TAFE TROPHY*

Exhibit 103, Longerenong College (Limousin x Poll Hereford) – 88.843 points



## 2010 ROYAL MELBOURNE SHOW

## THE BORTHWICK TROPHY

AWARDED TO

**SIMMENTAL**

Exhibit 83, Grant High School - 88.067 points

Exhibit 183, VPC Cattle Services Pty Ltd - 83.290 points

Exhibit 140, Northern Melbourne Institute of TAFE - 75.903 points

Place	Breed	Exh No.	Exh No.	Exh No.	Live	Carcase	Carcase	Carcase	Total
1	Simmental	83	183	140	96	88.067	85.228	75.903	345.198
2	Angus	79	86	197	87	85.184	84.803	85.671	342.658
3	South Devon	77	75	165	81	84.176	88.467	85.510	339.153
4	Hereford	129	133	150	88	80.404	85.822	84.797	339.023
5	Red Angus	109	189	191	87	83.459	82.295	82.761	335.515
6	Murray Grey	125	3	120	91	76.326	79.482	79.334	326.142
7	Santa Gertrudis	106	149	147	82	80.933	78.785	83.266	324.984
8	Charolais	73	114	154	91	74.039	80.810	78.509	324.358
9	British White	51	59	57	76	81.200	79.182	79.545	315.927
10	Red Poll	72	92	39	78	75.151	80.977	79.577	313.705
11	Limousin	117	95	96	94	51.000	81.062	86.501	312.563
12	Shorthorn	173	192	71	92	43.615	90.129	85.967	311.711
13	Poll Hereford	42	18	74	80	79.524	72.969	75.544	308.037
14	Square Meaters	30	31	32	88	79.801	84.308	39.608	291.717

## HISTORICAL WINNERS OF THE BORTHWICK TROPHY

1953	Angus	1969	Poll Shorthorn	1985	Poll Hereford	2001	Shorthorn
1954	Angus	1970	Poll Shorthorn	1986	Angus	2002	Shorthorn
1955	Angus	1971	Hereford	1987	Angus	2003	Shorthorn
1956	Hereford	1972	Murray Grey	1988	Angus	2004	Murray Grey
1957	Angus	1973	Murray Grey	1989	Angus	2005	Charolais
1958	Angus	1974	Angus	1990	Murray Grey	2006	Charolais
1959	Angus	1975	Murray Grey	1991	Charolais	2007	Charolais
1960	Poll Hereford	1976	Murray Grey	1992	Charolais	2008	Limousin
1961	Angus	1977	Murray Grey	1993	Murray Grey	2009	Limousin
1962	Poll Hereford	1978	Galloway	1994	Murray Grey	2010	Simmental
1963	Angus	1979	Galloway	1995	Murray Grey		
1964	Angus	1980	Galloway	1996	Murray Grey		
1965	Angus	1981	Murray Grey	1997	Hereford		
1966	Angus	1982	Angus	1998	Shorthorn		
1967	Murray Grey	1983	Hereford	1999	Angus		
1968	Angus	1984	Angus	2000	Murray Grey		



# Royal Melbourne Carcase Competition 2010

Competition Date: 20/09/2010

Quartering Site: 10-11 Rib

EXHIBITOR BY CLASS

Class: 1 - Light Domestic 100kg-180 kg

Body	Tag ID	Market	Live Weight	HSCW	Dress	Breed Type	Exhibitor Details	P8 Fat (mm) / 10	MC 1a-7 / 5	FC Value / 5	DIST / 5	Penalty	Total / 20	RFT (mm) / 15	EMA sq / 20	Total / 35	TBC	Sex	Hump	OSS	AUS MB	MSA MB	pH	Total / 45	Grand				
25		A	283	167	59%	SQ	P Brown & L Ward	9	8	1C	5	3	5	0	18.0	4	15.0	62	17.8	32.8	0	M	35	120	0.0	150	5.37	33.005	83.853
157		A	281	148	53%	AL	L Senger-Whitehead	8	10	2	4	1	4	0	18.0	3	10.0	50	12.8	22.8	0	M	40	140	0.0	210	5.40	31.552	72.348

## Disclaimer

Should an operator of the ABCAS competition model utilise the "spare" market category, and compile score results that differ to the default options, MSA will not assume responsibility for complaints relating to competition results.

**DIST**  
\* A 5 point penalty will be allocated for carcasses above Fat Colour (FC) of AusMeat 4

## Legend

\* Market Specifications

\* Market Specifications

P8 Fat - P8 Fat (mm)  
MC - Meat Colour (1a - 7)  
FC - Fat Colour (0 - 8)  
- Fat Distribution (1 - 5)

\*\* Saleable Meat Yield

\*\* Saleable Meat Yield

RFT - Rib Fat (mm)  
EMA - Eye Muscle Area (sq cm)

\*\*\* MSA - Eating Quality

\*\*\* MSA - Eating Quality

TBC - Tropical Breed Content (%)  
Sex - Male or Female (M/F)  
Hump - Hump Height (mm)  
OSS - Ossification (100 - 590)  
AUSMB - AusMeat Marbling (0 - 9)  
- MSA Marbling (100 - 1100)

MSAMB - Meat pH

pH

MSA Specification

MSA Specification

To receive eating quality points, carcasses must meet minimum MSA specifications.  
Reasons carcasses receive no points:

1. Rib Fat less than 3mm
2. Fat Distribution inadequate
3. pH above 5.7
4. Meat Colour of 1a or greater than 3



# Royal Melbourne Carcase Competition 2010

Competition Date: 20/09/2010

Quartering Site: 10-11 Rib

EXHIBITOR BY CLASS

Class: 2 - Medium Domestic 181kg-240kg

Body	Tag ID	Market	Live Weight	HSCW	Dress	Breed Type	Exhibitor Details	P8 Fat (mm) / 10	MC 1a-7 / 5	FC Value	DIST / 5	Penalty	Total / 20	RFT (mm) / 15	EMA sq / 20	Total / 35	TBC	Sex	Hump	OSS	AUS MB	MSA MB	pH	Total / 45	Grand				
122		B	392	239	61%	BA/HH	Marist-Sion College	9	10	2	4	2	4	0	18.0	6	15.0	79	20.0	35.0	0	M	40	110	1.0	270	5.54	36.605	89.605
35		B	369	219	59%	RAXGV	A De Blauw	10	10	1B	5	1	4	0	19.0	7	15.0	76	20.0	35.0	0	M	45	110	0.0	200	5.43	34.890	88.890
34		B	368	222	60%	BSXCC	B T Davies	9	10	1C	5	2	4.5	0	19.5	5	15.0	69	16.8	31.8	0	M	50	100	0.0	260	5.52	36.795	88.098
165		B	382	215	56%	SD	Tesbury Partnership	12	6	2	4	3	4	0	14.0	6	15.0	77	20.0	35.0	0	M	40	100	0.0	200	5.49	36.510	85.510
79		B	380	233	61%	AA	F Glover	10	10	2	4	1	4	0	18.0	5	15.0	69	15.8	30.8	0	M	40	100	0.0	200	5.42	36.381	85.184
194		B	377	235	62%	LL	Yanco Ag High School	9	10	2	4	1	3.5	0	17.5	6	15.0	76	19.6	34.6	0	F	35	130	0.0	150	5.54	33.029	85.105
33		B	359	209	58%	BSXCC	B T Davies	7	10	1B	5	1	3.5	0	18.5	4	12.0	71	19.1	31.1	0	M	45	100	0.0	190	5.40	35.400	85.015
31		B	384	224	58%	SQ	Cootamundra High School	8	10	1C	5	3	4.5	0	19.5	8	15.0	63	13.2	28.2	0	M	50	110	0.0	260	5.32	36.576	84.308
77		B	381	224	59%	SD	Glenorminston South West TAFE	9	10	2	4	3	4	0	18.0	4	12.0	84	20.0	32.0	0	M	40	110	0.0	180	5.53	34.176	84.176
148		B	379	215	57%	BG	Pine Gully Belted Galloway Stud	10	10	1B	5	4	4	0	19.0	7	15.0	62	13.5	28.5	0	M	40	100	0.0	200	5.42	36.543	84.027
64		B	376	217	58%	MG	Geelong Grammar School Timbertop	9	10	1B	5	3	4.5	0	19.5	6	15.0	64	14.4	29.4	0	M	35	130	0.0	260	5.63	34.710	83.642
60		B	365	217	59%	AAXMG	Geelong Grammar School Timbertop	10	10	1B	5	3	4	0	19.0	5	15.0	58	11.0	26.0	0	M	40	100	1.0	320	5.49	37.590	82.633
123		B	400	236	59%	SS	McKay Bros	12	6	1C	5	3	3.5	0	14.5	6	15.0	73	17.8	32.8	0	M	40	130	1.0	300	5.48	35.305	82.595
130		B	404	238	59%	HH	Nagle College	11	8	2	4	2	4.5	0	16.5	7	15.0	65	13.1	28.1	0	M	50	100	0.0	320	5.53	37.690	82.279
69		B	368	214	58%	MG	Geelong Grammar School Timbertop	10	10	2	4	4	4.5	0	18.5	5	15.0	57	10.8	25.8	0	M	35	100	0.0	280	5.54	36.848	81.098
99		B	378	208	55%	RAXGV	H King	10	10	1C	5	2	3	0	18.0	5	15.0	58	11.9	26.9	0	M	55	120	0.0	280	5.34	35.624	80.485
22		B	322	190	59%	AA	Billabong High School	10	10	3	2	1	4	0	16.0	5	15.0	56	12.4	27.4	0	M	40	110	0.0	280	5.67	36.481	79.848
63		B	326	181	56%	MG	Geelong Grammar School Timbertop	9	10	2	4	1	4	0	18.0	3	8.0	63	17.1	25.1	0	M	45	100	0.0	240	5.38	36.538	79.679
39		B	372	216	58%	RP	R Draper	9	10	2	4	3	3.5	0	17.5	4	12.0	66	15.7	27.7	0	M	40	120	0.0	240	5.32	34.424	79.577
42		B	413	233	56%	PH	Emmanuel College	9	10	2	4	3	4.5	0	18.5	6	15.0	65	13.5	28.5	0	M	35	140	0.0	170	5.52	32.481	79.524
46		B	311	188	60%	HH	Finley High School	8	10	2	4	2	4.5	0	18.5	3	8.0	66	18.2	26.2	0	M	30	100	0.0	160	5.46	34.595	79.294

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DIST  
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## Legend

\* Market Specifications

\* Market Specifications

P8 Fat - P8 Fat (mm)  
MC - Meat Colour (1a - 7)  
FC - Fat Colour (0 - 8)  
- Fat Distribution (1 - 5)

\*\* Saleable Meat Yield

\*\* Saleable Meat Yield

RFT - Rib Fat (mm)  
EMA - Eye Muscle Area (sq cm)

\*\*\* MSA - Eating Quality

\*\*\* MSA - Eating Quality

TBC - Tropical Breed Content (%)  
Sex - Male or Female (M/F)  
Hump - Hump Height (mm)  
OSS - Ossification (100 - 590)  
AUSMB - AusMeat Marbling (0 - 9)  
- MSA Marbling (100 - 1100)

MSAMB - Meat pH

pH

MSA Specification

MSA Specification

To receive eating quality points, carcasses must meet minimum MSA specifications.  
Reasons carcasses receive no points:

1. Rib Fat less than 3mm
2. Fat Distribution inadequate
3. pH above 5.7
4. Meat Colour of 1a or greater than 3

Build No: 1063

AUSTRALIAN BEEF CARCASE APPRAISAL SYSTEM - (ABCAS)

Printed: 23/09/2010 4:38:37 PM

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# Royal Melbourne Carcase Competition 2010

Competition Date: 20/09/2010

Quarterming Site: 10-11 Rib

## EXHIBITOR BY CLASS

Body	Tag ID	Market	Live Weight	HSCW	Dress	Breed Type	Exhibitor Details	P8 Fat (mm) / 10	MC 1a-7 / 5	FC Value	DIST / 5	Penalty	Total / 20	RFT (mm) / 15	EMA sq / 20	Total / 35	TBC	Sex	Hump	OSS	AUS MB	MSA MB	pH	Total / 45	Grand				
68		B	395	216	55%	MG	Geelong Grammar School Timbertop	7	10	2	4	2	3.5	0	17.5	3	8.0	67	16.2	24.2	0	M	35	100	0.0	260	5.49	36.695	78.414
88		B	383	226	59%	CCXAA	Gundagai High School	12	6	2	4	2	4	0	14.0	5	15.0	70	17.0	32.0	0	F	40	150	0.0	180	5.41	31.505	77.509
7		B	393	240	61%	LLXAA	Barham High School	9	10	3	2	3	4.5	0	16.5	4	12.0	61	10.6	22.6	0	M	35	130	0.0	210	5.58	33.095	72.242
145		B	403	235	58%	SG	PG & NKM Phillips	11	8	1C	5	3	3.5	0	16.5	4	12.0	62	11.7	23.7	38	M	70	120	0.0	150	5.41	30.105	70.271
14		B	368	222	60%	DXXAA	Billabong High School	15	0	3	2	1	3.5	0	5.5	10	11.0	48	4.9	15.9	0	M	45	120	2.0	410	5.59	37.443	58.881
53		B	381	233	61%	CC	Finley High School	8	10	5	0	3	4	0	14.0	5	15.0	79	20.0	35.0	0	F	30	140	0.0	210	6.28	0.000	49.000
19		B	380	233	61%	LLXSS	Billabong High School	10	10	4	1	1	3.5	0	14.5	7	15.0	69	15.8	30.8	0	M	45	100	1.0	300	5.76	0.000	45.303
173		B	357	226	63%	SS	Tippetts Glengyron	10	10	4	1	3	4	0	15.0	8	15.0	64	13.6	28.6	0	M	55	100	1.0	340	6.22	0.000	43.615
5		B	388	230	59%	BAXLL	Barham High School	7	10	5	0	2	5	0	15.0	4	12.0	67	14.9	26.9	0	M	40	100	0.0	200	6.26	0.000	41.946
1		B	325	201	62%	MG	BC & ME Atkins	6	10	2	4	1	3	0	17.0	2	4.0	69	18.7	22.7	0	M	45	140	0.0	160	5.54	0.000	39.712
27		B	381	227	60%	MG	I & A Burnside	8	10	6	0	2	4	0	14.0	7	15.0	59	10.7	25.7	0	M	40	100	1.0	300	6.52	0.000	39.699
32		B	369	217	59%	SQ	Cootamundra High School	11	8	4	1	2	4	0	13.0	6	15.0	59	11.6	26.6	0	M	40	130	1.0	350	5.71	0.000	39.608
16		B	364	235	65%	LL	Billabong High School	4	7	5	0	1	3	0	10.0	3	8.0	87	20.0	28.0	0	M	40	100	0.0	130	6.10	0.000	38.000
66		B	390	231	59%	MG	Geelong Grammar School Timbertop	13	4	5	0	2	4.5	0	8.5	8	15.0	63	12.6	27.6	0	M	50	100	0.0	220	5.78	0.000	36.095
26		B	402	230	57%	MG	I & A Burnside	10	10	6	0	3	4	0	14.0	6	15.0	53	7.0	22.0	0	M	30	110	0.0	200	6.44	0.000	36.036
6		B	410	235	57%	SD	Barham High School	5	9	3	2	1	3.5	0	14.5	2	4.0	63	12.2	16.2	0	M	50	130	0.0	150	5.61	0.000	30.731

### Disclaimer

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DIST  
\* A 5 point penalty will be allocated for carcasses above Fat Colour (FC) of AusMeat 4

### Legend

\* Market Specifications

\* Market Specifications

P8 Fat - P8 Fat (mm)  
MC - Meat Colour (1a - 7)  
FC - Fat Colour (0 - 8)  
- Fat Distribution (1 - 5)

\*\* Saleable Meat Yield

\*\* Saleable Meat Yield

RFT - Rib Fat (mm)  
EMA - Eye Muscle Area (sq cm)

\*\*\* MSA - Eating Quality

\*\*\* MSA - Eating Quality

TBC - Tropical Breed Content (%)  
Sex - Male or Female (M/F)  
Hump - Hump Height (mm)  
OSS - Ossification (100 - 590)  
AUSMB - AusMeat Marbling (0 - 9)  
- MSA Marbling (100 - 1100)

MSAMB - Meat pH

pH

MSA Specification

MSA Specification

To receive eating quality points, carcasses must meet minimum MSA specifications. Reasons carcasses receive no points:

1. Rib Fat less than 3mm
2. Fat Distribution inadequate
3. pH above 5.7
4. Meat Colour of 1a or greater than 3



# Royal Melbourne Carcase Competition 2010

Competition Date: 20/09/2010

Quartering Site: 10-11 Rib

EXHIBITOR BY CLASS

Class: 3 - Heavy Domestic 241kg-300kg

Body	Tag ID	Market	Live Weight	HSCW	Dress	Breed	Exhibitor Details	P8 Fat (mm) / 10	MC 1a-7 / 5	FC Value	DIST / 5	Penalty	Total / 20	RFT (mm) / 15	EMA sq / 20	Total / 35	TBC	Sex	Hump	OSS	AUS MB	MSA MB	pH	Total / 45	Grand				
153		C	445	274	62%	LLXAA	L Salzke	12	10	1C	5	3	3.5	0	18.5	6	15.0	89	20.0	35.0	0	M	65	100	1.0	340	5.45	37.681	91.181
11		C	440	273	62%	LLXSS	Billabong High School	12	10	3	2	2	5	0	17.0	8	15.0	89	20.0	35.0	0	M	45	110	1.0	320	5.48	36.876	88.876
128		C	420	263	63%	LL	Nagle College	12	10	1C	5	2	4.5	0	19.5	6	15.0	77	17.6	32.6	0	M	40	110	0.0	270	5.44	36.600	88.696
75		C	415	241	58%	SD	Glenorminston South West TAFE	10	10	1C	5	3	4	0	19.0	5	13.0	78	20.0	33.0	0	M	50	110	0.0	260	5.55	36.467	88.467
190		C	458	284	62%	CCXRA	Yanco Ag High School	9	10	2	4	1	4	0	18.0	6	15.0	92	20.0	35.0	0	F	65	150	1.0	370	5.34	35.386	88.386
28		C	470	277	59%	LLXAA	Chairo Christian School	10	10	2	4	2	4.5	0	18.5	7	15.0	84	20.0	35.0	0	M	50	120	0.0	230	5.45	34.752	88.252
135		C	457	273	60%	LLXAA	Nagle College	8	10	3	2	1	4	0	16.0	6	15.0	90	20.0	35.0	0	M	55	100	0.0	250	5.70	36.686	87.686
105		C	413	250	61%	CCXAA	Longerenong College	12	10	1C	5	1	4	0	19.0	6	15.0	78	19.3	34.3	0	M	45	110	0.0	180	5.41	34.200	87.543
15		C	429	267	62%	LLXSS	Billabong High School	10	10	3	2	1	4	0	16.0	6	15.0	87	20.0	35.0	0	M	55	110	0.0	210	5.50	35.152	86.152
193		C	484	289	60%	CCXRA	Yanco Ag High School	11	10	2	4	2	4	0	18.0	9	15.0	81	17.5	32.5	0	M	55	120	0.0	240	5.58	35.567	86.059
104		C	442	265	60%	AA	Longerenong College	12	10	2	4	2	4.5	0	18.5	10	15.0	73	15.2	30.2	0	M	40	110	1.0	320	5.42	37.367	86.021
187		C	417	284	68%	CCXRA	Yanco Ag High School	12	10	3	2	3	5	0	17.0	9	15.0	78	16.3	31.3	0	M	55	100	1.0	320	5.56	37.714	85.966
133		C	419	259	62%	HH	Nagle College	11	10	1C	5	2	4	0	19.0	10	15.0	68	12.9	27.9	0	M	45	100	1.0	370	5.44	38.948	85.822
23		C	434	273	63%	LL	Billabong High School	7	9	2	4	1	3	0	16.0	5	13.0	88	20.0	33.0	0	M	60	100	0.0	260	5.60	36.767	85.767
89		C	458	279	61%	AA	Gundagai High School	14	8	2	4	3	4.5	0	16.5	7	15.0	81	18.4	33.4	0	M	45	140	1.0	350	5.42	35.743	85.644
171		C	455	268	59%	AAXLL	The University of Adelaide	13	10	1B	5	1	4.5	0	19.5	12	11.0	77	17.1	28.1	0	M	45	110	1.0	340	5.36	37.410	85.051
86		C	432	258	60%	AA	Gundagai High School	11	10	1C	5	2	4	0	19.0	12	11.0	77	18.1	29.1	0	M	50	110	1.0	280	5.68	36.752	84.803
150		C	483	292	60%	HH	RIST	9	10	1C	5	2	4	0	19.0	6	15.0	80	16.7	31.7	0	M	60	130	0.0	220	5.38	34.143	84.797
40		C	506	296	58%	AA	E J Angus	13	10	2	4	4	3.5	0	17.5	6	15.0	76	14.0	29.0	0	M	45	100	1.0	380	5.48	38.110	84.640
121		C	427	273	64%	BA/AA	Marist-Sion College	10	10	1B	5	1	3.5	0	18.5	5	13.0	95	20.0	33.0	0	M	40	130	0.0	180	5.47	33.090	84.590
195		C	410	245	60%	LL	Yanco Ag High School	9	10	1C	5	1	4	0	19.0	5	13.0	87	20.0	33.0	0	F	40	140	0.0	200	5.41	32.529	84.529

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DIST  
\* A 5 point penalty will be allocated for carcasses above Fat Colour (FC) of AusMeat 4

## Legend

\* Market Specifications  
\* Market Specifications

P8 Fat - P8 Fat (mm)  
MC - Meat Colour (1a - 7)  
FC - Fat Colour (0 - 8)  
- Fat Distribution (1 - 5)

\*\* Saleable Meat Yield  
\*\* Saleable Meat Yield

RFT - Rib Fat (mm)  
EMA - Eye Muscle Area (sq cm)

\*\*\* MSA - Eating Quality  
\*\*\* MSA - Eating Quality

TBC - Tropical Breed Content (%)  
Sex - Male or Female (M/F)  
Hump - Hump Height (mm)  
OSS - Ossification (100 - 590)  
AUSMB - AusMeat Marbling (0 - 9)  
- MSA Marbling (100 - 1100)

MSAMB - Meat pH

pH

MSA Specification  
MSA Specification

To receive eating quality points, carcasses must meet minimum MSA specifications.

Reasons carcasses receive no points:

1. Rib Fat less than 3mm
2. Fat Distribution inadequate
3. pH above 5.7
4. Meat Colour of 1a or greater than 3

Build No: 1063

AUSTRALIAN BEEF CARCASE APPRAISAL SYSTEM - (ABCAS)

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# Royal Melbourne Carcase Competition 2010

Competition Date: 20/09/2010

Quarterming Site: 10-11 Rib

## EXHIBITOR BY CLASS

Body	Tag ID	Market	Live Weight	HSCW	Dress	Breed Type	Exhibitor Details	P8 Fat (mm) / 10	MC 1a-7 / 5	FC Value / 5	DIST / 5	Penalty	Total / 20	RFT (mm) / 15	EMA sq / 20	Total / 35	TBC	Sex	Hump	OSS	AUS MB	MSA MB	pH	Total / 45	Grand				
163	C	506	299	59%	SA	Tasmanian Branch Simmental Assoc.		12	10	2	4	2	4	0	18.0	8	15.0	76	13.8	28.8	0	M	55	100	1.0	340	5.66	37.686	84.444
118	C	407	241	59%	MG	Marist-Sion College		12	10	1C	5	3	4	0	19.0	9	15.0	70	15.6	30.6	0	M	40	110	0.0	180	5.55	34.590	84.231
102	C	492	298	61%	CCXHH	Longerenong College		10	10	2	4	1	4	0	18.0	5	13.0	81	16.7	29.7	0	M	40	100	0.0	210	5.48	36.505	84.179
29	C	452	264	58%	LLXRP	Chairo Christian school		11	10	3	2	2	4.5	0	16.5	6	15.0	78	18.1	33.1	0	M	45	120	0.0	240	5.68	34.495	84.065
61	C	454	268	59%	MG	Geelong Grammar School Timbertop		13	10	3	2	2	4	0	16.0	8	15.0	79	18.3	33.3	0	M	45	110	2.0	180	5.53	34.567	83.838
169	C	443	263	59%	AAXLL	The University of Adelaide		14	8	1B	5	1	4	0	17.0	8	15.0	76	17.0	32.0	0	M	40	120	0.0	230	5.37	34.752	83.783
52	C	480	294	61%	BZXAA	Finley High School		14	8	2	4	2	4	0	16.0	10	15.0	89	20.0	35.0	0	F	50	150	0.0	220	5.47	32.629	83.629
147	C	428	255	60%	SG	PG & NKM Phillips		11	10	2	4	3	4	0	18.0	6	15.0	74	16.6	31.6	38	M	80	120	0.0	280	5.48	33.638	83.266
116	C	456	262	57%	MG/AA	Marist-Sion College		13	10	1C	5	1	4	0	19.0	9	15.0	67	12.0	27.0	0	M	50	110	0.0	270	5.53	36.729	82.765
191	C	481	289	60%	RA	Yanco Ag High School		16	4	1C	5	2	5	0	14.0	7	15.0	80	16.9	31.9	0	M	55	120	2.0	370	5.45	36.833	82.761
44	C	456	264	58%	HH	Emmanuel College		10	10	2	4	2	4.5	0	18.5	8	15.0	68	12.4	27.4	0	M	50	120	1.0	330	5.49	36.729	82.649
84	C	443	280	63%	AAXMG	Gundagai High School		13	10	1C	5	3	4.5	0	19.5	6	15.0	71	12.7	27.7	0	F	50	150	2.0	380	5.39	35.419	82.580
159	C	499	297	60%	SIXAA	St Pauls College		10	10	1C	5	1	4	0	19.0	9	15.0	71	11.1	26.1	0	M	45	110	1.0	350	5.38	37.405	82.520
189	C	481	277	58%	RA	Yanco Ag High School		14	8	1C	5	2	4	0	17.0	9	15.0	71	12.9	27.9	0	M	60	110	1.0	320	5.43	37.362	82.295
188	C	492	297	60%	CCXRA	Yanco Ag High School		11	10	1C	5	1	4.5	0	19.5	9	15.0	68	9.4	24.4	0	M	60	100	1.0	340	5.46	38.057	81.977
62	C	439	263	60%	MG	Geelong Grammar School Timbertop		8	10	1B	5	1	4	0	19.0	5	13.0	72	14.8	27.8	0	M	50	100	0.0	150	5.42	34.933	81.704
48	C	423	257	61%	SS	Finley High School		16	4	1C	5	2	4	0	13.0	8	15.0	73	15.9	30.9	0	M	45	100	1.0	310	5.46	37.681	81.562
110	C	406	261	64%	AA	Longerenong College		14	8	1B	5	1	4	0	17.0	6	15.0	67	12.1	27.1	0	M	50	110	1.0	350	5.47	37.386	81.513
113	C	491	288	59%	SG	Longerenong College		9	10	1C	5	1	4	0	19.0	6	15.0	69	10.8	25.8	38	M	70	100	1.0	350	5.35	36.433	81.237
51	C	466	268	58%	BW	Finley High School		10	10	3	2	3	4	0	16.0	6	15.0	73	14.9	29.9	0	M	50	140	1.0	330	5.62	35.319	81.200
91	C	398	241	61%	AS	Harris Family		15	6	1C	5	3	5	0	16.0	7	15.0	70	15.6	30.6	0	M	40	130	0.0	230	5.44	34.371	81.012
124	C	405	250	62%	SS	McKay Bros		11	10	3	2	4	4	0	16.0	10	15.0	65	12.0	27.0	0	M	50	100	1.0	320	5.52	37.990	80.988
45	C	425	249	59%	HH	Emmanuel College & K Hodge		10	10	2	4	4	4.5	0	18.5	7	15.0	65	12.1	27.1	0	M	60	140	1.0	340	5.50	35.381	80.970
151	C	473	278	59%	WB	Rutherglen High School		9	10	2	4	2	4.5	0	18.5	7	15.0	69	11.7	26.7	0	M	45	140	1.0	320	5.51	35.324	80.536
156	C	428	249	58%	ALXPH	L Senger-Whitehead		11	10	3	2	4	4.5	0	16.5	6	15.0	67	13.2	28.2	0	M	40	120	1.0	280	5.52	35.733	80.452

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DIST  
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### Legend

\* Market Specifications

\* Market Specifications

P8 Fat - P8 Fat (mm)  
MC - Meat Colour (1a - 7)  
FC - Fat Colour (0 - 8)  
- Fat Distribution (1 - 5)

\*\* Saleable Meat Yield

\*\* Saleable Meat Yield

RFT - Rib Fat (mm)  
EMA - Eye Muscle Area (sq cm)

\*\*\* MSA - Eating Quality

\*\*\* MSA - Eating Quality

TBC - Tropical Breed Content (%)  
Sex - Male or Female (M/F)  
Hump - Hump Height (mm)  
OSS - Ossification (100 - 590)  
AUSMB - AusMeat Marbling (0 - 9)  
- MSA Marbling (100 - 1100)

MSAMB - Meat pH

pH

MSA Specification

MSA Specification

To receive eating quality points, carcasses must meet minimum MSA specifications.  
Reasons carcasses receive no points:

1. Rib Fat less than 3mm
2. Fat Distribution inadequate
3. pH above 5.7
4. Meat Colour of 1a or greater than 3



# Royal Melbourne Carcase Competition 2010

Competition Date: 20/09/2010

Quartering Site: 10-11 Rib

## EXHIBITOR BY CLASS

Body	Tag ID	Market	Live Weight	HSCW	Dress	Breed Type	Exhibitor Details	P8 Fat (mm) / 10	MC 1a-7 / 5	FC Value	DIST / 5	Penalty	Total / 20	RFT (mm) / 15	EMA sq / 20	Total / 35	TBC	Sex	Hump	OSS	AUS MB	MSA MB	pH	Total / 45	Grand				
129	C		418	246	59%	HH	Nagle College	10	10	2	4	3	4	0	18.0	10	15.0	62	10.7	25.7	0	M	45	100	0.0	220	5.39	36.738	80.404
87	C		476	292	61%	AA	Gundagai High school	15	6	1B	5	1	4	0	15.0	8	15.0	74	13.3	28.3	0	M	45	110	0.0	260	5.47	36.648	79.912
30	C		456	274	60%	SQ	Cootamundra High School	10	10	2	4	2	4.5	0	18.5	6	15.0	68	11.5	26.5	0	M	45	110	0.0	200	5.32	34.790	79.801
57	C		443	243	55%	BW	Finley High School	8	10	2	4	2	4	0	18.0	5	13.0	67	13.8	26.8	0	M	35	110	2.0	200	5.45	34.781	79.545
65	C		429	251	59%	MG	Geelong Grammar School Timbertop	10	10	1C	5	2	4	0	19.0	9	15.0	63	10.8	25.8	0	M	45	130	0.0	230	5.42	34.443	79.220
41	C		487	290	60%	AA	E J Angus	11	10	1B	5	4	3.5	0	18.5	10	15.0	68	10.1	25.1	0	M	40	140	1.0	320	5.53	35.633	79.190
158	C		478	296	62%	SA	Slopes Simmental Genetics	7	9	2	4	4	3	0	16.0	6	15.0	75	13.5	28.5	0	M	50	140	0.0	250	5.44	34.405	78.871
149	C		465	276	59%	SG	RG & J Reeves	10	10	1C	5	3	4	0	19.0	8	15.0	66	10.2	25.2	38	M	80	110	0.0	260	5.47	34.586	78.785
141	C		475	300	63%	CCXRA	NMIT	11	10	2	4	1	4	0	18.0	10	15.0	66	8.0	23.0	0	M	60	110	1.0	320	5.48	37.367	78.384
67	C		465	279	60%	AAXMG	Geelong Grammar School Timbertop	14	8	2	4	2	4	0	16.0	8	15.0	67	10.5	25.5	0	M	55	100	0.0	220	5.46	36.710	78.201
146	C		405	242	60%	SG	PG & NKM Phillips	11	10	1C	5	3	4	0	19.0	5	13.0	64	12.2	25.2	38	M	70	100	0.0	190	5.37	34.005	78.165
184	C		494	293	59%	MG	Watermill Pastoral Company	13	10	2	4	3	4.5	0	18.5	9	15.0	66	8.7	23.7	0	M	60	150	1.0	330	5.43	35.333	77.487
80	C		411	248	60%	AA	F Glover	9	10	1C	5	1	4	0	19.0	4	10.0	63	11.0	21.0	0	M	50	100	0.0	220	5.44	36.495	76.545
181	C		434	271	62%	SIXRA	VPC Cattle Services	8	10	3	2	1	3.5	0	15.5	5	13.0	71	13.5	26.5	0	M	50	120	0.0	200	5.62	34.143	76.121
134	C		395	247	63%	LL	Nagle College	6	8	1B	5	1	3	0	16.0	3	7.0	81	20.0	27.0	0	M	50	110	0.0	120	5.31	32.990	75.990
74	C		489	289	59%	PH	Glenorminston South West TAFE	14	8	3	2	3	4	0	14.0	9	15.0	70	11.3	26.3	0	M	50	130	0.0	270	5.55	35.267	75.544
72	C		494	287	58%	RP	Glenorminston South West TAFE	10	10	2	4	2	4	0	18.0	6	15.0	66	9.2	24.2	0	M	50	150	0.0	270	5.38	32.952	75.151
76	C		429	252	59%	AA	Glenorminston South West TAFE	8	10	2	4	3	4	0	18.0	6	15.0	57	7.3	22.3	0	M	35	120	0.0	200	5.39	34.162	74.458
155	C		462	284	61%	CCXAA	H A Seeley	12	10	3	2	2	3.5	0	15.5	10	15.0	66	9.5	24.5	0	M	50	130	0.0	220	5.39	34.419	74.391
152	C		426	245	58%	WB	Rutherglen High School	8	10	3	2	3	4	0	16.0	3	7.0	71	15.8	22.8	0	M	45	100	0.0	200	5.44	35.348	74.190
162	C		470	290	62%	SSXSS	St Pauls College	14	8	1C	5	2	4	0	17.0	13	9.0	69	10.6	19.6	0	M	60	110	1.0	280	5.46	36.852	73.474
182	C		400	254	64%	SMXRA	VPC Cattle Services	7	9	3	2	4	3	0	14.0	4	10.0	70	14.5	24.5	25	M	50	100	0.0	250	5.48	34.914	73.373
18	C		422	267	63%	PH	Billabong High School	13	10	2	4	3	4.5	0	18.5	15	5.0	69	12.7	17.7	0	M	40	130	1.0	360	5.43	36.757	72.969
54	C		447	247	55%	BW	Finley High School	9	10	3	2	2	3.5	0	15.5	4	10.0	62	10.6	20.6	0	M	45	120	1.0	330	5.48	36.181	72.256
2	C		464	292	63%	MG	BC & ME Atkins	5	7	1C	5	1	3.5	0	15.5	4	10.0	75	13.8	23.8	0	F	50	140	0.0	170	5.31	31.500	70.830

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DIST  
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### Legend

\* Market Specifications

\*\* Saleable Meat Yield

P8 Fat - P8 Fat (mm)  
MC - Meat Colour (1a - 7)  
FC - Fat Colour (0 - 8)  
- Fat Distribution (1 - 5)

\*\* Saleable Meat Yield

\*\*\* MSA - Eating Quality

RFT - Rib Fat (mm)  
EMA - Eye Muscle Area (sq cm)

\*\*\* MSA - Eating Quality

\*\*\* MSA - Eating Quality

TBC - Tropical Breed Content (%)  
Sex - Male or Female (M/F)  
Hump - Hump Height (mm)  
OSS - Ossification (100 - 590)  
AUSMB - AusMeat Marbling (0 - 9)  
- MSA Marbling (100 - 1100)

MSAMB - Meat pH

pH

MSA Specification

MSA Specification

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Reasons carcasses receive no points:

1. Rib Fat less than 3mm
2. Fat Distribution inadequate
3. pH above 5.7
4. Meat Colour of 1a or greater than 3



# Royal Melbourne Carcase Competition 2010

Competition Date: 20/09/2010

Quartering Site: 10-11 Rib

EXHIBITOR BY CLASS

Body	Tag ID	Market	Live Weight	HSCW	Dress	Breed Type	Exhibitor Details	P8 Fat (mm) / 10	MC 1a-7 / 5	FC Value	DIST / 5	Penalty	Total / 20	RFT (mm) / 15	EMA sq / 20	Total / 35	TBC	Sex	Hump	OSS	AUS MB	MSA MB	pH	Total / 45	Grand				
170		C	506	298	59%	MG	The University of Adelaide	15	6	1C	5	1	4	0	15.0	15	5.0	70	10.5	15.5	0	M	50	120	1.0	330	5.51	36.852	67.311
20		C	440	262	60%	HH	Billabong High School	16	4	2	4	2	3.5	0	11.5	12	11.0	53	4.1	15.1	0	M	60	150	0.0	220	5.50	32.629	59.255
117		C	393	251	64%	LL	Marist-Sion College	11	10	4	1	1	5	0	16.0	8	15.0	101	20.0	35.0	0	M	50	120	0.0	200	5.72	0.000	51.000
131		C	420	266	63%	LLXAA	Nagle College	8	10	5	0	2	4	0	14.0	7	15.0	97	20.0	35.0	0	M	45	100	0.0	200	5.96	0.000	49.000
164		C	472	267	57%	SI	Tasmanian Branch Simmental Assoc.	11	10	6	0	3	4	0	14.0	8	15.0	82	20.0	35.0	0	M	50	130	1.0	30	6.37	0.000	49.000
13		C	450	284	63%	LLXAA	Billabong High School	9	10	6	0	3	4	0	14.0	8	15.0	83	19.1	34.1	0	M	55	100	1.0	310	6.62	0.000	48.077
4		C	467	284	61%	SI	TRS &MA Baker	8	10	4	1	2	3.5	0	14.5	8	15.0	81	17.9	32.9	0	M	50	100	0.0	240	5.82	0.000	47.447
10		C	407	245	60%	LLXAA	Barham High School	8	10	5	0	2	4	0	14.0	8	15.0	68	14.1	29.1	0	M	40	100	0.0	270	5.86	0.000	43.147
8		C	464	268	58%	CC	Barham High school	6	8	4	1	1	3.5	0	12.5	3	7.0	81	19.4	26.4	0	M	50	100	0.0	180	5.95	0.000	38.901
143		C	443	257	58%	RP	NMIT	14	8	4	1	2	4.5	0	13.5	10	15.0	57	6.8	21.8	0	M	50	120	1.0	340	6.14	0.000	35.341
9		C	453	263	58%	CC	Barham High School	5	7	2	4	2	3.5	0	14.5	2	4.0	60	8.0	12.0	0	M	55	120	0.0	150	5.51	0.000	26.491
126		C	411	250	61%	AA	Milsan Pty Ltd & F Glover	9	10	4	1	1	4.5	0	15.5	15	5.0	53	5.2	10.2	0	M	45	100	0.0	220	5.74	0.000	25.718

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DIST  
\* A 5 point penalty will be allocated for carcasses above Fat Colour (FC) of AusMeat 4

## Legend

\* Market Specifications

\* Market Specifications

P8 Fat - P8 Fat (mm)  
MC - Meat Colour (1a - 7)  
FC - Fat Colour (0 - 8)  
- Fat Distribution (1 - 5)

\*\* Saleable Meat Yield

\*\* Saleable Meat Yield

RFT - Rib Fat (mm)  
EMA - Eye Muscle Area (sq cm)

\*\*\* MSA - Eating Quality

\*\*\* MSA - Eating Quality

TBC - Tropical Breed Content (%)  
Sex - Male or Female (M/F)  
Hump - Hump Height (mm)  
OSS - Ossification (100 - 590)  
AUSMB - AusMeat Marbling (0 - 9)  
- MSA Marbling (100 - 1100)

MSAMB - Meat pH

pH

MSA Specification

MSA Specification

To receive eating quality points, carcasses must meet minimum MSA specifications.  
Reasons carcasses receive no points:

1. Rib Fat less than 3mm
2. Fat Distribution inadequate
3. pH above 5.7
4. Meat Colour of 1a or greater than 3



# Royal Melbourne Carcase Competition 2010

Competition Date: 20/09/2010

Quarterming Site: 10-11 Rib

EXHIBITOR BY CLASS

Class: 4 - Export 300kg +

Body	Tag ID	Market	Live Weight	HSCW	Dress	Breed Type	Exhibitor Details	P8 Fat (mm) / 10	MC 1a-7 / 5	FC Value / 5	DIST / 5	Penalty	Total / 20	RFT (mm) / 15	EMA sq / 20	Total / 35	TBC	Sex	Hump	OSS	AUS MB	MSA MB	pH	Total / 45	Grand				
139		D	592	349	59%	SI	NMIT	14	10	1B	5	1	4	0	19.0	13	15.0	102	20.0	35.0	0	M	65	110	1.0	300	5.42	36.881	90.881
192		D	495	302	61%	SS	Yanco Ag High School	12	10	2	4	1	4.5	0	18.5	11	15.0	88	20.0	35.0	0	M	55	110	0.0	240	5.48	36.629	90.129
97		D	566	359	63%	LL	Kerang Technical High School	12	10	1C	5	1	3	0	18.0	10	15.0	99	20.0	35.0	0	M	65	140	1.0	380	5.50	36.671	89.671
179		D	518	324	63%	AAXHH	Tumut High School	10	8	2	4	4	4.5	0	16.5	9	15.0	91	20.0	35.0	0	M	60	100	1.0	320	5.36	37.695	89.156
103		D	594	361	61%	LLXPH	Longerenong College	12	10	2	4	2	5	0	19.0	7	13.0	112	20.0	33.0	0	M	65	100	0.0	270	5.36	36.843	88.843
115		D	662	398	60%	SS	Longerenong College	11	9	2	4	2	4	0	17.0	10	15.0	105	20.0	35.0	0	M	75	140	2.0	370	5.48	36.681	88.681
36		D	660	402	61%	SI	W A Doelle & Sons	12	10	3	2	5	5	0	17.0	12	15.0	107	20.0	35.0	0	M	65	150	1.0	380	5.70	36.229	88.229
111		D	506	303	60%	CCXPH	Longerenong College	12	10	1C	5	1	4.5	0	19.5	11	15.0	80	15.7	30.7	0	M	50	100	1.0	310	5.45	37.952	88.107
83		D	562	347	62%	SI	Grant High School	16	10	2	4	5	4	0	18.0	8	15.0	98	20.0	35.0	0	M	65	150	0.0	280	5.48	35.067	88.067
160		D	590	390	66%	LLXAA	St Pauls College	15	10	3	2	1	4.5	0	16.5	12	15.0	104	20.0	35.0	0	M	60	140	1.0	320	5.61	35.805	87.305
50		D	550	334	61%	CCXAA	Finley High School	9	7	1C	5	2	5	0	17.0	10	15.0	92	19.6	34.6	0	M	65	120	0.0	250	5.64	35.652	87.269
175		D	526	326	62%	SI	Topweight Grazing	11	9	2	4	4	4	0	17.0	10	15.0	87	17.5	32.5	0	M	60	110	1.0	380	5.56	37.462	86.981
198		D	506	312	62%	CCXRA	Yanco Ag High School	11	9	1C	5	1	4	0	18.0	6	11.0	92	20.0	31.0	0	M	60	100	1.0	350	5.37	37.705	86.705
161		D	570	385	68%	LLXAA	St Pauls College	13	10	2	4	2	3.5	0	17.5	13	15.0	103	20.0	35.0	0	M	65	130	0.0	190	5.41	34.171	86.671
96		D	530	323	61%	LL	Kerang Technical High School	12	10	3	2	3	4	0	16.0	10	15.0	87	17.8	32.8	0	M	60	100	0.0	320	5.59	37.710	86.501
100		D	520	309	59%	SS	Longerenong College	13	10	1B	5	1	4	0	19.0	10	15.0	81	15.7	30.7	0	M	55	100	0.0	230	5.43	36.771	86.446
136		D	624	396	63%	AA	NMIT	14	10	1C	5	1	4.5	0	19.5	10	15.0	94	15.1	30.1	0	M	60	140	2.0	380	5.38	36.710	86.320
21		D	592	389	66%	LL	Billabong High School	13	10	3	2	2	4.5	0	16.5	10	15.0	110	20.0	35.0	0	M	70	150	0.0	260	5.57	34.748	86.248
71		D	506	321	63%	SS	Glenorminston South West TAFE	12	10	2	4	3	4	0	18.0	10	15.0	85	16.8	31.8	0	M	50	140	1.0	360	5.33	36.124	85.967
24		D	512	322	63%	SIXAA	Bonnydale Simmental Farms	14	10	1C	5	2	4.5	0	19.5	10	15.0	81	14.5	29.5	0	M	60	120	1.0	330	5.34	36.762	85.754
197		D	578	362	63%	AA	Yanco Ag High School	15	10	1C	5	1	4	0	19.0	10	15.0	89	15.4	30.4	0	M	70	140	1.0	360	5.44	36.295	85.671

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DIST  
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## Legend

\* Market Specifications

\* Market Specifications

P8 Fat - P8 Fat (mm)  
MC - Meat Colour (1a - 7)  
FC - Fat Colour (0 - 8)  
- Fat Distribution (1 - 5)

\*\* Saleable Meat Yield

\*\* Saleable Meat Yield

RFT - Rib Fat (mm)  
EMA - Eye Muscle Area (sq cm)

\*\*\* MSA - Eating Quality

\*\*\* MSA - Eating Quality

TBC - Tropical Breed Content (%)  
Sex - Male or Female (M/F)  
Hump - Hump Height (mm)  
OSS - Ossification (100 - 590)  
AUSMB - AusMeat Marbling (0 - 9)  
- MSA Marbling (100 - 1100)

MSAMB - Meat pH

pH

MSA Specification

MSA Specification

To receive eating quality points, carcasses must meet minimum MSA specifications.  
Reasons carcasses receive no points:

1. Rib Fat less than 3mm
2. Fat Distribution inadequate
3. pH above 5.7
4. Meat Colour of 1a or greater than 3

Build No: 1063

AUSTRALIAN BEEF CARCASE APPRAISAL SYSTEM - (ABCAS)



# Royal Melbourne Carcase Competition 2010

Competition Date: 20/09/2010

Quartering Site: 10-11 Rib

## EXHIBITOR BY CLASS

Body	Tag ID	Market	Live Weight	HSCW	Dress	Breed Type	Exhibitor Details	P8 Fat (mm)	10	MC 1a-7	5	FC Value	DIST / 5	Penalty	Total / 20	RFT (mm)	15	EMA sq	20	Total / 35	TBC	Sex	Hump	OSS	AUS MB	MSA MB	pH	Total / 45	Grand
183		D	658	420	64%	SI	VPC Cattle Services	14	10	1C	5	1	5	0	20.0	12	15.0	97	14.6	29.6	0	M	75	130	1.0	310	5.58	35.605	85.228
58		D	516	305	59%	AA	Finley High School	14	10	1C	5	2	4.5	0	19.5	11	15.0	77	13.8	28.8	0	M	60	100	0.0	230	5.40	36.776	85.054
82		D	556	347	62%	SI	Grant High School	9	7	2	4	4	3.5	0	14.5	7	13.0	99	20.0	33.0	0	M	70	110	2.0	370	5.48	37.429	84.929
47		D	538	323	60%	LLXAA	Finley High School	12	10	1C	5	3	4.5	0	19.5	10	15.0	82	15.0	30.0	0	M	60	140	1.0	290	5.51	35.295	84.762
94		D	550	335	61%	LLXAA	Kerang Technical High School	15	10	2	4	2	4	0	18.0	14	13.0	82	13.9	26.9	0	M	70	100	2.0	420	5.56	39.438	84.314
174		D	546	334	61%	SI	Topweight Grazing	11	9	2	4	2	4	0	17.0	9	15.0	83	14.5	29.5	0	M	55	110	2.0	370	5.63	37.429	83.960
109		D	506	307	61%	RA	Longerenong College	16	10	1B	5	1	3.5	0	18.5	10	15.0	79	14.7	29.7	0	M	70	140	1.0	280	5.37	35.233	83.459
81		D	620	383	62%	SI	Grant High School	12	10	3	2	3	4	0	16.0	13	15.0	93	15.7	30.7	0	M	75	130	1.0	330	5.50	36.719	83.446
144		D	704	436	62%	CCXAA	NMIT	16	10	1C	5	3	5	0	20.0	14	13.0	97	13.2	26.2	0	M	70	140	1.0	350	5.43	36.724	82.892
112		D	530	301	57%	CCXSS	Longerenong College	12	10	1C	5	2	4.5	0	19.5	10	15.0	70	10.2	25.2	0	M	50	110	1.0	310	5.41	36.876	81.563
55		D	724	422	58%	SI	Finley High School	16	10	2	4	3	4	0	18.0	13	15.0	91	11.1	26.1	0	M	70	150	2.0	430	5.59	37.314	81.366
95		D	550	339	62%	LL	Kerang technical High School	7	3	1C	5	1	3.5	0	11.5	14	13.0	92	19.2	32.2	0	M	70	110	1.0	340	5.66	37.400	81.062
92		D	508	302	59%	RP	BE & LE Johnson	13	10	3	2	2	4	0	16.0	8	15.0	78	14.6	29.6	0	M	40	150	1.0	340	5.48	35.362	80.977
106		D	550	339	62%	SG	Longerenong College	14	10	1B	5	2	4	0	19.0	8	15.0	81	12.9	27.9	38	M	75	130	1.0	340	5.44	34.033	80.933
114		D	728	458	63%	CC	Longerenong College	12	10	2	4	1	4.5	0	18.5	9	15.0	98	11.7	26.7	0	M	75	150	1.0	300	5.42	35.576	80.810
108		D	598	372	62%	SSXAA	Longerenong College	13	10	1C	5	3	4.5	0	19.5	9	15.0	81	9.9	24.9	0	M	80	140	1.0	360	5.35	36.186	80.633
49		D	566	340	60%	SS	Finley High School	11	9	2	4	1	4	0	17.0	10	15.0	79	11.7	26.7	0	M	45	100	0.0	260	5.47	36.852	80.578
142		D	548	320	58%	AC	NMIT	11	9	1B	5	3	3.5	0	17.5	5	9.0	90	19.8	28.8	0	M	60	130	0.0	230	5.48	34.152	80.411
107		D	570	354	62%	LL	Longerenong College	9	7	2	4	2	3.5	0	14.5	5	9.0	109	20.0	29.0	0	M	80	110	0.0	300	5.46	36.633	80.133
98		D	536	323	60%	HHXMG	Kerang Technical High School	11	9	1C	5	3	4.5	0	18.5	9	15.0	72	9.3	24.3	0	M	55	120	1.0	360	5.50	36.862	79.678
3		D	652	405	62%	MG	BC & EM Atkins	19	6	2	4	1	4.5	0	14.5	10	15.0	94	14.3	29.3	0	M	75	150	1.0	320	5.51	35.690	79.482
120		D	532	330	62%	MG	Marist-Sion College	12	10	2	4	3	5	0	19.0	7	13.0	77	11.5	24.5	0	M	65	130	1.0	320	5.47	35.829	79.334
59		D	676	413	61%	BW	Finley High School	11	9	2	4	2	4	0	17.0	7	13.0	92	12.4	25.4	0	M	70	120	1.0	330	5.52	36.748	79.182
154		D	662	414	63%	CC	H A Seeley	18	8	2	4	3	4	0	16.0	11	15.0	90	11.2	26.2	0	M	60	140	1.0	350	5.38	36.295	78.509
78		D	562	349	62%	SS	Glenorminston South West TAFE	12	10	2	4	3	4.5	0	18.5	10	15.0	75	8.6	23.6	0	M	60	140	1.0	360	5.55	36.248	78.395
37		D	664	416	63%	SI	W A Doelle & Sons	8	5	1C	5	4	3.5	0	13.5	8	15.0	95	13.9	28.9	0	M	65	140	1.0	320	5.41	35.790	78.147

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DIST  
\* A 5 point penalty will be allocated for carcasses above Fat Colour (FC) of AusMeat 4

### Legend

\* Market Specifications

\* Market Specifications

P8 Fat - P8 Fat (mm)  
MC - Meat Colour (1a - 7)  
FC - Fat Colour (0 - 8)  
- Fat Distribution (1 - 5)

\*\* Saleable Meat Yield

\*\* Saleable Meat Yield

RFT - Rib Fat (mm)  
EMA - Eye Muscle Area (sq cm)

\*\*\* MSA - Eating Quality

\*\*\* MSA - Eating Quality

TBC - Tropical Breed Content (%)  
Sex - Male or Female (M/F)  
Hump - Hump Height (mm)  
OSS - Ossification (100 - 590)  
AUSMB - AusMeat Marbling (0 - 9)  
- MSA Marbling (100 - 1100)

MSAMB - Meat pH

pH

MSA Specification

MSA Specification

To receive eating quality points, carcasses must meet minimum MSA specifications. Reasons carcasses receive no points:

1. Rib Fat less than 3mm
2. Fat Distribution inadequate
3. pH above 5.7
4. Meat Colour of 1a or greater than 3



# Royal Melbourne Carcase Competition 2010

Competition Date: 20/09/2010

Quartering Site: 10-11 Rib

## EXHIBITOR BY CLASS

Body	Tag ID	Market	Live Weight	HSCW	Dress	Breed Type	Exhibitor Details	P8 Fat (mm) / 10	MC 1a-7 / 5	FC Value	DIST / 5	Penalty	Total / 20	RFT (mm) / 15	EMA sq / 20	Total / 35	TBC	Sex	Hump	OSS	AUS MB	MSA MB	pH	Total / 45	Grand				
196		D	528	322	61%	MG	Yanco Ag High School	22	0	1C	5	1	3.5	0	8.5	14	13.0	89	19.0	32.0	0	M	65	110	1.0	320	5.33	37.362	77.874
180		D	518	316	61%	SIXRA	VPC Cattle Services	9	7	2	4	3	4	0	15.0	9	15.0	75	11.6	26.6	0	M	65	130	1.0	340	5.63	36.219	77.867
12		D	492	304	62%	CCXSS	Billabong High School	14	10	2	4	3	4	0	18.0	7	13.0	75	12.7	25.7	0	F	50	160	0.0	290	5.44	33.281	77.020
127		D	560	345	62%	SI	GC & VJ Muller	12	10	3	2	6	4	0	16.0	12	15.0	78	10.7	25.7	0	F	70	190	1.0	330	5.48	34.771	76.478
125		D	566	345	61%	MG	DJ&R McRae	15	10	1C	5	2	4	0	19.0	10	15.0	69	5.6	20.6	0	M	65	130	1.0	350	5.41	36.705	76.326
140		D	500	306	61%	SI	NMIT	11	9	3	2	1	4	0	15.0	6	11.0	76	13.1	24.1	0	M	45	100	0.0	260	5.61	36.781	75.903
38		D	656	411	63%	SI	W A Doelle & Sons	16	10	2	4	4	4.5	0	18.5	15	11.0	92	12.6	23.6	0	M	70	190	0.0	250	5.45	32.976	75.093
138		D	650	370	57%	AA	NMIT	15	10	2	4	3	4.5	0	18.5	14	13.0	74	6.2	19.2	0	M	55	140	2.0	420	5.52	37.362	75.036
168		D	682	431	63%	AAXMG	The University of Adelaide	15	10	1C	5	2	4.5	0	19.5	16	9.0	88	8.5	17.5	0	M	70	120	2.0	360	5.51	37.419	74.457
93		D	546	327	60%	LLXAA	Kerang Technical High School	20	4	1C	5	1	4	0	13.0	12	15.0	72	9.0	24.0	0	M	55	120	1.0	360	5.40	37.381	74.334
73		D	522	323	62%	CC	Glenorminston South West TAFE	7	3	2	4	4	4	0	11.0	6	11.0	84	16.1	27.1	0	M	50	110	0.0	230	5.43	35.943	74.039
43		D	556	321	58%	HH	Emmanuel College	13	10	3	2	4	5	0	17.0	8	15.0	70	8.4	23.4	0	M	60	140	0.0	220	5.60	33.157	73.525
56		D	496	323	65%	HH	Finley High School	12	10	3	2	3	4	0	16.0	5	9.0	78	12.7	21.7	0	M	60	120	0.0	160	5.50	34.114	71.821
178		D	460	304	66%	LL	Tumut High School	8	5	3	2	2	3.5	0	10.5	3	3.0	125	20.0	23.0	0	M	45	100	1.0	280	5.68	36.705	70.205
185		D	522	304	58%	SIXRA	Windan Hill Simmental Stud	9	7	2	4	2	3.5	0	14.5	5	9.0	74	12.2	21.2	0	M	55	110	0.0	180	5.45	34.190	69.864
85		D	628	414	66%	AA	Gundagai High School	23	0	3	2	3	4.5	0	6.5	13	15.0	89	10.6	25.6	0	M	65	150	1.0	300	5.46	35.629	67.777
167		D	588	369	63%	LL	The University of Adelaide	12	10	4	1	1	4	0	15.0	8	15.0	85	12.5	27.5	0	M	50	140	1.0	330	5.73	0.000	42.480
137		D	512	308	60%	SI	NMIT	8	5	4	1	1	4	0	10.0	6	11.0	87	19.2	30.2	0	M	45	100	0.0	270	5.88	0.000	40.155
172		D	590	372	63%	SS	Tippetts Glengyron	12	10	5	0	3	4	0	14.0	14	13.0	85	12.2	25.2	0	M	70	140	0.0	330	5.95	0.000	39.207

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DIST  
\* A 5 point penalty will be allocated for carcasses above Fat Colour (FC) of AusMeat 4

### Legend

\* Market Specifications      \*\* Saleable Meat Yield  
\* Market Specifications      \*\* Saleable Meat Yield  
P8 Fat - P8 Fat (mm)      RFT - Rib Fat (mm)  
MC - Meat Colour (1a - 7)      EMA - Eye Muscle Area (sq cm)  
FC - Fat Colour (0 - 8)  
- Fat Distribution (1 - 5)

\*\*\* MSA - Eating Quality      MSA Specification  
\*\*\* MSA - Eating Quality      MSA Specification  
TBC - Tropical Breed Content (%)  
Sex - Male or Female (M/F)  
Hump - Hump Height (mm)  
OSS - Ossification (100 - 590)  
AUSMB - AusMeat Marbling (0 - 9)  
- MSA Marbling (100 - 1100)

MSAMB - Meat pH

pH

MSA Specification  
MSA Specification  
To receive eating quality points, carcasses must meet minimum MSA specifications.  
Reasons carcasses receive no points:

1. Rib Fat less than 3mm
2. Fat Distribution inadequate
3. pH above 5.7
4. Meat Colour of 1a or greater than 3



# The Royal Agricultural Society of Victoria



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