

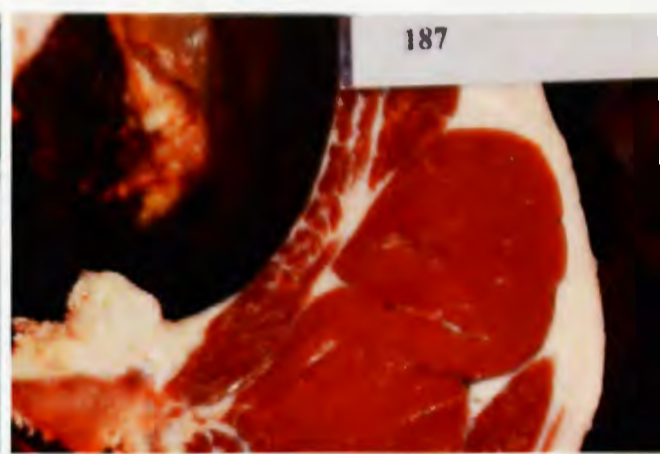


RASV

Royal Melbourne Show
17-27 September 2009

BEEF CARCASS

Catalogue of Results





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**Royal Melbourne Show
17-27 September 2009**

BEEF CARCASS Catalogue of Results

The Royal Agricultural Society of Victoria Limited
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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
A Light Domestic	100 - 180	4 - 8	4 - 6	3 - 6
B Medium Domestic	181 - 240	6 - 10	5 - 8	4 - 7
C Heavy Domestic	241 - 300	8 - 13	6 - 10	5 - 9
D Export	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 CARCASSES

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	Total	100 points

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 CARCASSES

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	CC - Charolais	RA - Red Angus
BF - Braford	FF - Friesian	PH - Poll Hereford
LL - Limousin	GA - Galloway	RP - Red Poll
BL - Blonde D'Aquitaine	GV - Gelbvieh	SD - South Devon
BV - Braunvieh	HH - Hereford	SI - Simmental
BZ - Bazadaise	LW - Lowline	SS - Shorthorn
BW - British White	MG - Murray Grey	SQ - Square Meater
		WB - Welsh Black

ENTRIES

- 1 **M & S Atkinson:** (AA) 20/06/08 Bred by M & S Atkinson S: M F Destroyer 093, D: Ardrossan Dandloo X5
- 2 **Barham High School:** (AA) 01/01/09 Bred by L & J Gordon
- 3 **Barham High School:** (AA) 01/01/09 Bred by L & J Gordon
- 4 **Barham High School:** (CC) 01/01/09 Bred by D Taylor
- 5 **Barham High School:** (SD) 01/01/09 Bred by C & L Daley S: The Bend Young Gun
- 6 **Barham High School:** (SD) 01/01/09 Bred by C & L Daley S: The Bend Young Gun
- 7 **Barham High School:** (SD) 01/01/09 Bred by C & L Daley S: The Bend Young Gun
- 8 **Barham High School:** (SD) 01/01/09 Bred by Tesbury South Devons S: Zion 27, D: Tesbury X71
- 9 **Barham High School:** (SDXAA) 01/01/09 Bred by Tesbury South Devons S: Zac 180
- 10 **Barham High School:** (SD) 01/01/09 Bred by Tesbury South Devons S: Alpha A36
- 11 **Billabong High School:** (LL) (AUCTION) 10/10/08 Bred by Mandayen Limousins
- 12 **Billabong High School:** (MG) 14/09/08 Bred by Murray Glen
- 13 **Billabong High School:** (LL) (AUCTION) 13/10/08 Bred by Mandayen Limousins
- 14 **Billabong High School:** (AA) 08/08/08 Bred by Hillglen Partnership
- 15 **Billabong High School:** (LL X SS) (AUCTION) 22/10/08 Bred by Mandayen Limousins
- 16 **Billabong High School:** (SI X HH) (AUCTION) 02/11/08 Bred by Homeview Partnership
- 17 **Billabong High School:** (LLXSS/LL) 18/09/08 Bred by Mandayen Limousins
- 18 **Billabong High School:** (SSXMG) 05/05/08 Bred by Jc & Rb Bowler
- 19 **Brookfield Piedmontese:** (PM/HHXMG) 18/09/07 Bred by Matthew Willoughby S: Brookfield Butch, D: Rosie
- 20 **Brookfield Piedmontese:** (PMXAA) 12/09/07 Bred by Matthew Willoughby S: Brookfield Butch, D: Angela
- 21 **Brookfield Piedmontese:** (PM/HHXMG) 16/09/08 Bred by Matthew Willoughby S: Brookfield Butch, D: Sarah
- 22 **P Brown & L Ward:** (SQ) 11/10/08 Bred by P Brown & L Ward S: Windridge Yuri, D: Falling Waters Saturn
- 23 **Chairo Christian School:** (LL X RP) (AUCTION) 13/11/08 Bred by B & A Gill S: Bruangil Park Bonanza
- 24 **Chairo Christian School:** (LL X LL/AA) (AUCTION) 27/08/08 Bred by H & H Krutsch S: Vesper Hill Yongala, D: Vesper Hill 351
- 25 **Chairo Christian School:** (LL) (AUCTION) 13/07/08 Bred by H & H Krutsch S: Vesper Hill Yongala, D: Vesper Hill Renee
- 26 **Chairo Christian School:** (LL X RP) (AUCTION) 29/10/08 Bred by Walker & Gnaden S: Gabrielle Brendon, D: Raedean Giselle
- 27 **Chairo Christian School:** (LLXBV) (AUCTION) 14/09/08 Bred by Chairo Christian School S: Durhamdale 073, D: Koijak 645
- 28 **Chairo Christian School:** (LLXSG) (AUCTION) 31/08/08 Bred by Chairo Christian School S: Durhamdale 073, D: Chairo Ginger
- 29 **Claidheamh Organic Beef:** (PH) (AUCTION) 10/09/08 Bred by HM & KJ Hicks S: Wolbul Poll Hereford
- 30 **Claidheamh Organic Beef:** (AA X AA/PH) (AUCTION) 10/09/08 Bred by HM & KJ Hicks S: Franc Angus
- 31 **Cootamundra High School:** (SQ) 25/04/08 Bred by Cootamundra High School S: Thurloo Park Alexander, D: Thurloo Park Zara
- 32 **Cootamundra High School:** (SS) 01/09/08 Bred by Ken Drane S: Sprys Roan Rattler
- 33 **Mr R Draper:** (RP) 24/05/08 Bred by Ross Draper S: Red Cactus Fireplace, D: Red Cactus Patrice
- 34 **E A & G Keen:** (MG) 20/02/09 Bred by E A & G Keen S: Southern Cross Fearless
- 35 **Elandra Park Stud:** (LW X LW/LL) (AUCTION) 03/06/08 Bred by J & A Ristrom S: Elandra Park Yodgee, D: X13
- 36 **Emmanuel College:** (HH) 15/06/08 Bred by Kenneth Hodge S: Melville Park Z253
- 37 **Emmanuel College:** (HH) 01/04/08 Bred by W WE Atherty S: Blythvale A19
- 38 **Emmanuel College:** (HH) 18/06/08 Bred by Kenneth Hodge S: Melville Park Z253
- 39 **Emmanuel College & K Hodge:** (HH) 15/06/08 Bred by KT & BC Hodge S: Melville Park Brewer
- 40 **Finley High School:** (HH) 24/09/08 Bred by Jack & Maree Doyle S: Glentrevor Advance Z629
- 41 **Finley High School:** (SS) 23/09/08 Bred by Barrie Crotty S: X003 TLC Icon, D: A073 Deltroit Com A073
- 42 **Finley High School:** (SS) 18/09/08 Bred by Grawenjobar Shorthorns S: Grawenjobar Attitude
- 43 **Finley High School:** (AA) (AUCTION) 19/09/08 Bred by Russell Ford S: HazeldE An 3644
- 44 **Finley High School:** (SS X MG) 29/08/08 Bred by J A & P M Cowell
- 45 **Finley High School:** (BW) (AUCTION) 13/08/08 Bred by Murray Hut S: Murray Hut 432, D: Murray Hut 539
- 46 **Finley High School:** (HH) (AUCTION) 26/09/08 Bred by Glentrevor Herefords S: Glentrevor Advance A757
- 47 **Finley High School:** (BZ X HH) 09/07/08 Bred by Montgomery Family
- 48 **Finley High School:** (SS) (AUCTION C) 28/09/08 Bred by Barrie Crotty S: X003 TLC Icon, D: U007 Deltroit Com
- 49 **Finley High School:** (SS) 23/07/08 Bred by K & S Durrant S: Nullamanna Balsa, D: Nullamanna Stacey 2nd
- 50 **Finley High School:** (BW) 15/08/08 Bred by Darnum Park S: TR Regis Benchmark, D: Darnum Park 217
- 51 **Finley High School:** (CC X HH/FR) 02/10/08 Bred by Nigel Hogan
- 52 **Finley High School:** (BW) (AUCTION) 15/08/08 Bred by Darnum Park S: Castleton Horiatio, D: Darnum Park Elaine
- 53 **Finley High School:** (SS) (AUCTION) 29/10/08 Bred by Finley High School S: Sprys Red Uranus, D: Hillsidewymah Poll
- 54 **Finley High School:** (CC) (AUCTION) 15/10/08 Bred by Alf Paton
- 55 **M L & J G Galvin:** (CC X AA) 28/03/08 Bred by ML & BJ Galvin S: Talgoona Wantagong
- 56 **M L & J G Galvin:** (CC) 24/06/08 Bred by ML & BJ Galvin S: Talgoona Wantagong, D: Y3
- 58 **Glenormiston - South West TAFE:** (GV) 04/09/08 Bred by Ebony Lodge S: Ebony Lodge Avalanche A12, D: Ebony Lodge Madeline
- 59 **Glenormiston - South West TAFE:** (GV X RA) (AUCTION) 03/09/08 Bred by Ebony Lodge S: E. L. Balancer A555, D: E. L. Balancer Commercial
- 60 **Glenormiston - South West TAFE:** (GV) (AUCTION) 03/09/08 Bred by Ebony Lodge S: E. L. Albany A6, D: E. L. Nicky Z5
- 61 **Glenormiston - South West TAFE:** (AA X PH) 01/04/08 S: Franc Angus
- 62 **Glenormiston - South West TAFE:** (PH) 01/04/08 Bred by H Hicks
- 63 **Glenormiston - South West TAFE:** (HH) (AUCTION) 21/07/08 Bred by KT & BC Hodge S: Erendale Sequence, D: Mundook Registrar
- 64 **Glenormiston - South West TAFE:** (AA) 01/04/08 Bred by H Cumming S: Franc Angus
- 65 **Glenormiston - South West TAFE:** (AA) 01/04/08 Bred by S & N Branson S: Ardrossan Admiral A2, D:
- 67 **Glenormiston - South West TAFE:** (LL X AA/FF) 01/05/08
- 68 **F & J Glover:** (MG) 01/08/08 Bred by F & J Glover S: Michaelong Futuristic, D: Victoria Marigold
- 69 **Gundagai High School:** (AA) 28/10/08 Bred by Gundagai High School
- 70 **Gundagai High School:** (MG) 31/07/08 Bred by S Luff
- 71 **Gundagai High School:** (AA) 25/10/08 Bred by Gundagai High School
- 72 **Gundagai High School:** (AA) 28/10/08 Bred by Gundagai High School
- 73 **Gundagai High School:** (AA) 18/10/08 Bred by Gundagai High School
- 74 **Ian & Anne Burnside:** (MG) (AUCTION) 20/08/08 Bred by I & A Burnside S: Rcw5, D: Cratloe Hope Z28
- 75 **Ian & Anne Burnside:** (MG) 13/02/09 Bred by I & A Burnside S: RCW Y5, D: Cratloe Julia
- 76 **Leongatha Secondary College:** (HH) Bred by JN & DJ Meikle
- 77 **Longerenong College:** (SS) 10/09/08 Bred by Scott Mckay S: Marrellen Electrion, D: Marschay Z74
- 78 **Longerenong College:** (MG X MG/BL) 15/01/09 Bred by Paul Walsh
- 79 **Longerenong College:** (SS) 24/06/08 Bred by Belmore S: Belmore Jackaroo, D: Belmore Lotus
- 80 **Longerenong College:** (AA X CC/HH) 21/07/08 Bred by Longernong College S: Coolana Gubbo, D: Longerenong 768
- 81 **Longerenong College:** (AA) 21/09/08 Bred by Werribee Agriculture S: Lawsons Tank, D:
- 82 **Longerenong College:** (CC) 10/04/08 Bred by Malcolm Shultz S: Mt William Zeb, D: Glenmac Zoe
- 83 **Longerenong College:** (AA X CC) 18/09/08 Bred by Werribee Agriculture S: Lawsons Yield Grade
- 84 **Longerenong College:** (RA X CC/HH) 26/08/08 Bred by Longernong College S: Red Robber, D: Longerenong 409
- 85 **Longerenong College:** (LL) 15/05/08 Bred by John Repper S: Brungangle Upper Class, D: Kensal Green 101
- 86 **Longerenong College:** (CC X SS/HH) 28/07/08 Bred by Longernong College S: Palgrove Yemen, D: Longerenong 526
- 87 **Malcolm Galloways:** (GA) 01/05/08 Bred by Southern Cross Galloways S: SX A5, D: SX W1
- 88 **Malton Shorthorns, Andrea Falls & Ben Davies:** (AS X CC) Bred by Malton Shorthorns, Ben Davies & Andrea Falls S: Malton Zulu Y981

4 BEEF CARCASE RESULTS

- 89 **Marist-Sion College Warragul:** (LL) 20/03/08 Bred by Eden Park S: Donna Valley Poll Yarambat, D: Eden Park Alee
- 90 **Marist-Sion College Warragul:** (AA) 12/06/08 Bred by Garvan Family
- 91 **Marist-Sion College Warragul:** (MG) 01/12/08 Bred by Marist-Sion College S: Jimba Vale Rosco
- 92 **Marist-Sion College Warragul:** (LL X LL/AA) 05/03/08 Bred by Eden Park S: Donna Valley Poll Yarambat
- 93 **Marist-Sion College Warragul:** (MG) 16/03/08 Bred by Bunker Farm S: Lerwick Park Albatross, D: Bunker Farm Poppy
- 94 **Marist-Sion College Warragul:** (MG) 24/10/08 Bred by Marist-Sion College S: Jimba Vale Paul
- 95 **Marist-Sion College Warragul:** (MG) 26/10/08 Bred by Eden Park S: Jimba Vale Paul BTV93
- 96 **Marist-Sion College Warragul:** (MG) 21/10/08 Bred by Marist-Sion College S: Jimba Vale Paul
- 97 **Marist-Sion College Warragul:** (BA X AA) 01/09/08 Bred by Geekay Stud S: Romarin
- 98 **Marist-Sion College Warragul:** (MG) 16/08/08 Bred by Watermill S: Watermill Abraham, D: Watermill A50
- 99 **McKay Bros:** (SS) 24/09/08 Bred by Mckay Bros S: Lone Pine Justice, D: Marschay DMRX37
- 100 **Mt Compass Area School:** (RA) 01/04/08 Bred by Drayton Park S: Drayton Park Fancy Pants, D: Drayton Park Boss Lady
- 101 **Mt Compass Area School:** (SD) 24/04/08 Bred by R & K Arnold S: Paltarra Anthony, D: Paltarra Another
- 102 **Mt Compass Area School:** (LL) 19/05/08 Bred by N D Smith S: Meadowbrook Braveheart
- 103 **Mt Compass Area School:** (MG) 17/06/08 Bred by Rodney Gregurke S: Monterey Talent Scout, D: Tarlina V19
- 104 **Mt Compass Area School:** (MG) 03/07/08 Bred by Rodney Gregurke S: Monterey Talent Scout, D: Tarlina Brena B43
- 105 **Nagle College:** (LL) 04/07/08 Bred by K & S Davies S: Mawarra Right Wing
- 106 **Nagle College:** (HH) 19/07/08 Bred by C & J Cooper
- 107 **Nagle College:** (LL) 30/08/08 Bred by G & D Freshwater
- 108 **Nagle College:** (LL XLL/RP) 19/09/08 Bred by B & A Gill S: Bruangil Park Bonanza
- 109 **Nagle College:** (LL XLL/LL X AA) 18/11/08 Bred by E Lissenden S: The Pines Victor
- 110 **Nagle College:** (LL) 15/08/08 Bred by G & D Freshwater
- 111 **Nagle College:** (AC X AC/HH) 03/10/08 Bred by T & C Caithness
- 112 **Nagle College:** (LL) 16/11/08 Bred by L Lissenden S: The Pines Victor, D: Mt Teken Dam
- 113 **Northern Melbourne Institute of TAFE:** (AC) 26/09/08 Bred by R Cardile S: Zulu
- 114 **Northern Melbourne Institute of TAFE:** (CC X RP) 26/09/08 Bred by Nmit
- 115 **Northern Melbourne Institute of TAFE:** (AC) 02/10/08 Bred by R Cardile S: Zulu
- 116 **Northern Melbourne Institute of TAFE:** (RP) 28/06/08 Bred by R Draper S: Red Sands IQ, D: Cypress Poppy
- 117 **Northern Melbourne Institute of TAFE:** (AA) 26/03/08 Bred by Nmit S: VSN A60
- 118 **Northern Melbourne Institute of TAFE:** (CC X AA) 20/03/08 Bred by Nmit S: Glen Lea Aim A13E
- 119 **Northern Melbourne Institute of TAFE:** (AA) 05/03/08 Bred by NMIT S: SAV 004 Density
- 120 **Northern Melbourne Institute of TAFE:** (AA) 01/03/08 Bred by Nmit S: Yield Grade
- 121 **Riverslea Santa Gertrudis:** (SG) 24/08/08 Bred by RiversIE A Santa Gertrudis S: Kuloomba 193, D: Yulgilbar Z193
- 122 **Rutherglen High School:** (WB) 01/01/09 Bred by Silver Metal Investments S: Silver Metal M02
- 123 **Rutherglen High School:** (WB) 01/01/09 Bred by Silver Metal Investments S: Silver Metal Delmi
- 124 **H A Seeley:** (CC) 05/04/08 Bred by H A Seeley S: Ashwood Park Aristocat, D: Ashwood Park R3E
- 125 **H A Seeley:** (CC X RA) 12/03/08 Bred by H A Seeley S: Ashwood Park Zinc
- 126 **H A Seeley:** (CC X RA) 10/03/08 Bred by H A Seeley S: Ashwood Park Zinc
- 127 **St Pauls College:** (SI X SI/AA) 10/06/08 Bred by Feuerherdt Pastoral Co. S: Tangara X260
- 128 **St Pauls College:** (SI X SI/AA) 15/08/08 Bred by Feuerherdt Pastoral Co. S: Tangara X260
- 129 **St Pauls College:** (SI XSI/AA) 25/08/08 Bred by Feuerherdt Pastoral Co. S: Tangara X260
- 130 **Swifts Creek Secondary College:** (HH) 05/05/08
- 131 **Swifts Creek Secondary College:** (HH) 06/06/08
- 132 **The University of Adelaide:** (AA) 25/03/08 Bred by Martindale Holdings S: Noranda A43, D: Weeran 2514
- 133 **The University of Adelaide:** (LL) 17/05/08 Bred by Foone Beef Genetics S: Mandayen Cookie Monster, D: Ramornie Daphne
- 134 **The University of Adelaide:** (LL X RA) 30/08/08 Bred by S J Keatley S: Flemington Addiction, D: Pebbly Range 65
- 135 **The University of Adelaide:** (MG) 27/05/08 Bred by G & J R Koopman S: Willalooka Minyip, D: Bottles Ford Y44
- 136 **Timbertop:** (MG) 13/11/08 Bred by GGS Timbertop S: Kleighlain's Swaledale, D: Y526
- 137 **Timbertop:** (MG) 24/09/08 Bred by GGS Timbertop S: Kleighlain's Swaledale, D: Y735
- 138 **Timbertop:** (MG) Bred by GGS Timbertop S: Timbertop B18, D: 507
- 139 **Timbertop:** (MG) 26/09/08 Bred by GGS Timbertop S: Kleighlain's Swaledale, D: V113
- 140 **Timbertop:** (MG X MG/AA) 22/09/08 Bred by GGS Timbertop S: Timbertop B18, D: 406
- 141 **Timbertop:** (MG) 09/06/08 Bred by GGS Timbertop S: Timbertop B19, D: 562
- 142 **Timbertop:** (MG) 18/09/08 Bred by GGS Timbertop S: Kleighlain's Swaledale, D: V138
- 143 **Timbertop:** (AA X MG) 15/08/08 Bred by GGS Timbertop S: Brushpopper, D: B46
- 144 **Timbertop:** (AA X MG) 06/09/08 Bred by GGS Timbertop S: Brushpopper, D: B33
- 145 **Timbertop:** (MG) 08/09/08 Bred by GGS Timbertop S: Kleighlain's Swaledale
- 146 **Tippetts Glengyron:** (SS) 15/10/08 Bred by Tippetts Glengyron S: Sprys Pioneer, D: Glengyron Harriet Kate 32
- 147 **Tumbywood Pty Ltd:** (BL X CC/RA) 20/01/09 Bred by Tumbywood Pty Ltd S: Kiahbelle Xamwell, D: Gunedah
- 148 **Tumbywood Pty Ltd:** (BL X (CC/SS) 04/05/08 Bred by Tumbywood Pty Ltd S: Kiahbelle Xamwell, D: Yak
- 149 **Tumbywood Pty Ltd:** (BL X CC/AA) 16/04/08 Bred by Tumbywood Pty Ltd S: Kiahbelle Xamwell, D: Blossom
- 150 **Tumut High School:** (LL) 04/07/08 Bred by G & M Withers S: Froghollow X-Man, D: Donna Vallet Marlana A587
- 151 **Wagga Wagga High School:** (SS) 16/08/08 Bred by Evilo Shorthorns S: Marellen Famous, D: Evilo W14
- 152 **Wagga Wagga High School:** (SS) 30/09/08 Bred by Wagga Wagga High School S: Evilo Baxter, D: Wagga Wagga High School Bonnie Beaut
- 153 **Wagga Wagga High School:** (SS) 22/07/08 Bred by Evilo Shorthorns S: Evilo B59, D: Evilo B44
- 154 **Wagga Wagga High School:** (MG) 17/11/08 Bred by E A & G Keen S: Pandora Pegasus NPE X51, D:
- 155 **Watermill Pastoral Co.:** (MG) (AUCTION) 12/10/08 Bred by Watermill Pastoral Co. S: Watermill Bairnsdale
- 156 **Watermill Pastoral Co.:** (MG) 22/07/08 Bred by Watermill Pastoral Co. S: Watermill Astron
- 157 **Watermill Pastoral Co.:** (MG) 08/04/08 Bred by Watermill Pastoral Co. S: Watermill Bairnsdale
- 158 **Watermill Pastoral Co.:** (MG) (AUCTION) 24/09/08 Bred by Watermill Pastoral Co. S: Watermill Bahgallag
- 159 **Wilkam dai Stud:** (GA) 12/08/08 Bred by Wilkam dai Stud S: Du Rapide Legacy, D: Wilkam dai Beyonce
- 160 **Yanco Agricultural High School:** (MG) 16/08/08 Bred by Yanco Ag HS S: G B261, D: ECR V134
- 161 **Yanco Agricultural High School:** (LL X SS) 20/09/08 Bred by L D & D P Gommens
- 162 **Yanco Agricultural High School:** (AA) 09/08/08 Bred by The Glen S: Koosan Hills Modest, D: The Glen Pixie
- 163 **Yanco Agricultural High School:** (MG) 08/08/08 Bred by Yanco Ag HS S: G B261, D: ECR V322
- 164 **Yanco Agricultural High School:** (HH) 08/08/08 Bred by Green Hills S: Green Hills Yardman, D: Green Hills Royal Day
- 165 **Yanco Agricultural High School:** (RA) 10/08/08 Bred by Trevone Park S: Trevone Park Red Rock, D: Trevone Park Red Kite
- 166 **Yanco Agricultural High School:** (LL) (AUCTION) 24/09/08 Bred by L D & D P Gommens
- 168 **Yanco Agricultural High School:** (LL) (AUCTION) 10/09/08 Bred by LD & DP Gommens
- 169 **Yanco Agricultural High School:** (LL) (AUCTION) 06/09/08 Bred by LD & DP Gommens
- 170 **Yanco Agricultural High School:** (MG) (AUCTION) 18/08/08 Bred by Yanco Ag HS S: G B 261, D: ECR B19
- 171 **Yanco Agricultural High School:** (LL) (AUCTION) 21/10/08 Bred by L D & D P Gommens
- 172 **Yanco Agricultural High School:** (LL) (AUCTION) 15/10/08 Bred by L D & D P Gommens
- 173 **Yanco Agricultural High School:** (MG)(AUCTION) 25/08/08 Bred by Yanco Ag HS S: G B261, D: ECR X3
- 174 **Yanco Agricultural High School:** (LL) 09/09/08
- 175 **Yanco Agricultural High School:** (LL) (AUCTION) 04/09/08 Bred by L D & D P Gommens
- 176 **Yanco Agricultural High School:** (LL) 22/09/08 Bred by L D & D P Gommens
- 177 **Yanco Agricultural High School:** (LL X SS) (AUCTION) 01/10/08 Bred by L D & D P Gommens
- 178 **Yanco Agricultural High School:** (AA) 14/09/08 Bred by The Glen S: Te Mania Ada, D: The Glen Justine

YOUR PASSION, OUR COMMITMENT

(IT'S A BETTER WAY FORWARD)



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6 BEEF CARCASE RESULTS

AWARDS FOR BEEF CARCASE COMPETITION

AWARDS - LIVE

31. Awards will be provided for each of the ordinary classes as follows:
- Ribbons: - 1st, 2nd & 3rd places, plus Highly Commended and Commended.
 - Prize money: - 1st - \$25, 2nd - \$15, 3rd - \$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 of 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: 1st through to 3rd, 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 carcase divisions as follows:

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

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

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

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

38. The Exhibitor of the Grand Champion Carcase 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 Carcase 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 Carcase 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:

- 1st, 2nd and 3rd 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 Carcase 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 carcase 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 carcase. 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 57th year at the 2009 Royal Melbourne Show, and is widely recognised as the most prestigious interbreed steer and carcase 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 carcase 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 carcase appraisal. (Maximum points awarded by live judge - 100 points).
- Points gained by the steers in the carcase 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 carcase 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 CARCASS APPRAISAL SYSTEM (ABCAS)



NSW DEPARTMENT OF
PRIMARY INDUSTRIES



The Australian Beef Carcass 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 carcass 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, carcass 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 carcass 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 carcass assessment, while some markets specify only steers.

1.1 P8 Fat Depth (10 points) is measured on the hot carcass at the P8 site, over the rump, and is the method of describing fatness in the AUS-MEAT national carcass 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 carcass 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 carcass 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 carcass 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 carcass. 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 carcass 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 carcass 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 carcass 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 carcass. 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 carcass weight. The larger the rib eye area in relation to the carcass weight the higher the points awarded.

8 BEEF CARCASE RESULTS

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 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, pizzle 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.

2009 ROYAL MELBOURNE SHOW
BEEF CARCASS COMPETITION

LIVE CHAMPION AWARDS

GRAND CHAMPION STEER OR HEIFER

Exhibit 11, Billabong High School, (Limousin)

CHAMPION LIGHT DOMESTIC STEER OR HEIFER

Exhibit 34, EA & G Keen, (Murray Grey)

RESERVE CHAMPION LIGHT DOMESTIC STEER OR HEIFER

Exhibit 2, Barham High School, (Angus)

CHAMPION MEDIUM DOMESTIC STEER OR HEIFER

Exhibit 11, Billabong High School, (Limousin)

RESERVE CHAMPION MEDIUM DOMESTIC STEER OR HEIFER

Exhibit 13, Billabong High School, (Limousin)

CHAMPION HEAVY DOMESTIC STEER OR HEIFER

Exhibit 178, Yanco Agricultural High School, (Angus)

RESERVE CHAMPION HEAVY DOMESTIC STEER OR HEIFER

Exhibit 17, Billabong High School, (Limousin x Shorthorn)

CHAMPION EXPORT STEER OR HEIFER

Exhibit 92, Marist-Sion College Warragul, (Limousin)

RESERVE CHAMPION EXPORT STEER OR HEIFER

Exhibit 133, The University of Adelaide, (Limousin)

CLASS 1 Light Domestic 220kg – 330kg Live

1st 34 EA & G Keen (MG)
2nd 3 Barham High School (AA)
3rd 22 P Brown & L Ward (SQ)

CLASS 2 Medium Domestic 335kg – 375kg Live

1st 11 Billabong High School (LL)
2nd 175 Yanco Agricultural High School (LL)
3rd 23 Chairo Christian School (LLxRP)

CLASS 3 Medium Domestic 380kg – 410kg Live

1st 168 Yanco Agricultural High School (LL)
2nd 177 Yanco Agricultural High School (LLxSS)
3rd 169 Yanco Agricultural High School (LL)

CLASS 4 Medium Domestic 412kg – 430kg Live

1st 13 Billabong High School (LL)
2nd 166 Yanco Agricultural High School (LL)
3rd 107 Nagle College (LL)

CLASS 5 Heavy Domestic 435kg – 444kg Live

1st 146 Tippetts Glengyron (SS)
2nd 171 Yanco Agricultural High School (LL)
3rd 108 Nagle College (LL)

CLASS 6 Heavy Domestic 445kg – 465kg Live

1st 88 Malton Shorthorns, A Falls and B Davies(SS)
2nd 161 Yanco Agricultural High School (LLxSS)
3rd 110 Nagle College (LL)

CLASS 7 Heavy Domestic 467kg – 499kg Live

1st 178 Yanco Agricultural High School (AA)
2nd 56 M L & J L Galvin (CC)
3rd 12 Billabong High School (HH)

CLASS 8 Heavy Domestic 502kg – 529kg Live

1st 17 Billabong High School (LLxSS)
2nd 14 Billabong High School (AA)
3rd 83 Longerenong College (AAxCC)

CLASS 9 Export 530kg – 568kg Live

1st 92 Marist Sion College Warragul (LL)
2nd 150 Tumut High School (LL)
3rd 134 The University of Adelaide (LLxRP)

CLASS 10 Export 572kg – 750kg Live

1st 133 The University of Adelaide (LL)
2nd 102 Mt Compass Area School (LL)
3rd 4 Barham High School (CC)

SCHOOL AND COLLEGE AWARDS

MOST SUCCESSFUL SCHOOLS OR COLLEGE EXHIBITOR**THE BOTT-BURSTON TROPHY**

Billabong High School (38 points)

CHAMPION SCHOOLS LED STEER OR HEIFER

Exhibit 11, Billabong High School, (Limousin)

RESERVE CHAMPION SCHOOLS LED STEER OR HEIFER

Exhibit 13, Billabong High School, (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	1	2	2	2		0		0	2	4	8
Billabong High School	4	12	3	6	3	3	1	2	3	9	3	6	38
Yanco Agricultural High School	2	6	5	10	1	1		0	2	6	1	2	25
Chairo Christian School		0		0	1	1		0		0		0	1
Nagle College		0		0	3	3		0		0		0	3
Longerenong College	1	3		0	2	2	1	2	1	3		0	10
Marist-Sion College Warragul	3	9		0	2	2		0	1	3		0	14
Tumut High School	1	3	1	2		0		0		0		0	5
The University of Adelaide	2	6		0	1	1		0		0	2	4	11
Mount Compass Area School		0	1	2		0		0	1	3	1	2	7
Wagga Wagga High School	1	3		0		0		0		0		0	3
Finley High School	1	3	4	8	1	1		0		0		0	12
Emmanuel College		0	2	4		0		0		0		0	4
Northern Melbourne Institute of TAFE		0	1	2	1	1		0		0		0	3
Gundagai High School		0		0		0		0	1	3		0	3

SCHOOL AND COLLEGE PARADERS AWARDS

CHAMPION SCHOOL STEER OR HEIFER PARADER

April Salike (Billabong High School)

RESERVE CHAMPION SCHOOL STEER OR HEIFER PARADER

Jake Phillips (The University of Adelaide)

CLASS 1 (12 years)

- 1st Ellie Menz (Wagga Wagga High School)
 2nd Zoe Richardson (Finley High School)
 3rd Matthew Walker (Marist-Sion College Warragul)

CLASSES 2, 3 and 4 (13 years)

- 1st Hayden King (Marist-Sion College Warragul)
 2nd Alex Duke (Billabong High School)
 3rd Clare Slater (Marist-Sion College Warragul)

CLASSES 5, 6 and 7 (14 years)

- 1st Christopher Travena (Tumut High School)
 2nd Charlotte Close (Finley High School)
 3rd Jess Crick (Barham High School)

CLASSES 8, 9, 10 and 11 (15 years)

- 1st April Salike (Billabong High School)
 2nd Jonathon Murdoch (Billabong High School)
 3rd Mathew Berry (Billabong High School)

CLASSES 12, 13, 14, 15 and 16 (16 years)

- 1st Kendall Purcell (Finley High School)
 2nd Jessica O'Leary (Finley High School)
 3rd Andrew Hampel (Finley High School)

CLASSES 17, 18 and 19 (17 years)

- 1st Matthew Rigano (Marist-Sion College Warragul)
 2nd Caitlin Marcus (Finley High School)
 3rd Christopher Bowler (Billabong High School)

CLASSES 20, 21 and 22 (18 – 20 years)

- 1st Jake Phillips (The University of Adelaide)
 2nd Penny Welch (Emmanuel College)
 3rd Liz Dridan (Longerenong College)

CLASS 23 (21 years and over)

- 1st Kim Cross (Longerenong College)
 2nd Hassen Idris (Northern Melbourne Institute of TAFE)
 3rd Ashley Santilla (Northern Melbourne Institute of TAFE)

BEEF CARCASE CHAMPION AWARDS

GRAND CHAMPION CARCASE

Exhibit 77, Longerenong College (Shorthorn) 92.952

CHAMPION LIGHT DOMESTIC CARCASE

Exhibit 69, Gundagai High School (Angus) 88.138

CHAMPION MEDIUM DOMESTIC CARCASE

Exhibit 174, Yanco Agricultural High School (Limousin) 89.657

CHAMPION HEAVY DOMESTIC CARCASE

Exhibit 77, Longerenong College (Shorthorn) 92.952

CHAMPION EXPORT CARCASE

Exhibit 103, Mt Compass Area School (Murray Grey) 91.595

CHAMPION SCHOOLS CARCASE

THE MARCUS OLDHAM COLLEGE TROPHY

Exhibit 77, Longerenong College (Shorthorn) 92.952

HIGHEST SCORING SCHOOL BRED AND PREPARED CARCASE

THE NORTHERN MELBOURNE INSTITUTE OF TAFE TROPHY

Exhibit 160, Yanco Agricultural High School (Murray Grey) 89.451

2009 ROYAL MELBOURNE SHOW

THE BORTHWICK TROPHY

AWARDED TO

LIMOUSIN

Exhibit 133, The University of Adelaide 88.229 points

Exhibit 102, Mt Compass Area School 88.936 points

Exhibit 150, Tumut High School 87.500 points

AWARD	BREED	EXHIBITS			LIVE	CARCASE	CARCASE	CARCASE	TOTAL
		133	102	150					
1	LIMOUSIN	133	102	150	91	88.229	88.936	87.500	355.665
2	CHAROLAIS	56	4	124	89	81.843	82.676	85.662	339.181
3	MURRAY GREY	104	12	34	90	77.638	85.499	84.174	337.311
4	POLL HEREFORD	62	164	76	84	84.479	84.200	80.986	333.665
5	ANGUS	178	162	14	87	86.188	72.803	84.464	330.455
6	SOUTH DEVON	7	10	101	82	68.745	88.205	91.400	330.350
7	BRITISH WHITE	45	52	50	80	80.353	81.626	78.639	320.618
8	HEREFORD	40	39	37	83	68.293	86.840	72.249	310.382
9	SHORTHORN	146	41	49	85	49.466	88.509	63.535	286.510

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

Royal Melbourne Show Carcase Competition 2009

Competition Date: 24/09/2009

Quartering Site: 10-11 Rib

EXHIBITOR BY CLASS

Class: 1 - Light Domestic 100-180kg

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
69		A	308	176	57%	AA	Gundagai High School	5	10	1C	5	3	4	0	19.0	6	15.0	69	20.0	35.0	0	F	30	130	0.0	240	5.58	34.138	88.138
3		A	300	179	60%	AA	Barham High School	8	10	1C	5	2	4	0	19.0	8	11.0	68	20.0	31.0	0	M	40	120	0.0	270	5.67	35.629	85.629
2		A	270	164	61%	AA	Barham High School	8	10	1B	5	2	4	0	19.0	5	15.0	58	15.9	30.9	0	M	30	100	0.0	170	5.53	35.052	84.913
75		A	223	125	56%	MG	Ian & Anne Burnside	4	10	1C	5	2	3.5	0	18.5	4	15.0	51	15.5	30.5	0	F	30	100	0.0	130	5.45	34.362	83.313
91		A	303	170	56%	MG	Marist-Sion College Warragul	7	10	1B	5	1	4	0	19.0	7	13.0	52	11.9	24.9	0	M	30	100	0.0	250	5.48	36.786	80.711

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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 Show Carcase Competition 2009

Competition Date: 24/09/2009

Quarterming Site: 10-11 Rib

EXHIBITOR BY CLASS

Class: 2 - Medium Domestic 181-240kg

Body ID	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
174		B	364	234	64%	LL	Yanco Agricultural High School	6 10	1C 5	2	3.5	0	18.5	6 15.0	89 20.0	35.0	0	M	45	120	1.0	320	5.57	36.157	89.657
22		B	318	194	61%	SQ	P Brown & L Ward	8 10	2 4	3	5	0	19.0	5 15.0	68 18.8	33.8	0	M	40	100	0.0	230	5.65	36.548	89.331
11		B	363	234	64%	LL	Billabong High School	10 10	2 4	2	4.5	0	18.5	7 15.0	73 18.0	33.0	0	F	40	120	1.0	340	5.52	36.690	88.163
73		B	346	191	55%	AA	Gundagai High School	8 10	3 2	2	4	0	16.0	7 15.0	69 19.6	34.6	0	M	40	100	0.0	240	5.69	36.714	87.336
136		B	355	205	58%	MG	Timbertop	8 10	3 2	3	4.5	0	16.5	7 15.0	74 20.0	35.0	0	M	40	110	0.0	220	5.50	35.586	87.086
145		B	394	229	58%	MG	Timbertop	9 10	2 4	2	4	0	18.0	4 12.0	80 20.0	32.0	0	M	45	100	0.0	250	5.57	36.624	86.624
155		B	353	208	59%	MG	Watermill Pastoral Co	7 10	1C 5	4	4.5	0	19.5	7 15.0	63 14.7	29.7	0	M	30	120	0.0	330	5.55	36.629	85.814
159		B	357	197	55%	GA	Wilkamdai Stud	8 10	2 4	2	4	0	18.0	7 15.0	66 17.4	32.4	0	M	45	140	1.0	350	5.58	35.362	85.743
158		B	380	230	61%	MG	Watermill Pastoral Co	9 10	2 4	4	4.5	0	18.5	6 15.0	72 17.8	32.8	0	M	35	130	0.0	250	5.56	34.438	85.709
176		B	367	234	64%	LL	Yanco Agricultural High School	8 10	2 4	2	3.5	0	17.5	7 15.0	80 20.0	35.0	0	M	40	150	0.0	200	5.48	32.395	84.895
34		B	323	188	58%	MG	EA & G Keen	5 9	1C 5	2	3	0	17.0	4 12.0	67 18.8	30.8	0	M	40	100	0.0	220	5.50	36.410	84.174
28		B	388	237	61%	LLxSG	Chairo Christian School	10 10	2 4	2	4	0	18.0	8 15.0	81 20.0	35.0	18	F	50	140	0.0	150	5.58	31.071	84.071
94		B	374	212	57%	MG	Marist-Sion College Warragul	7 10	1B 5	1	5	0	20.0	9 13.0	63 14.3	27.3	0	M	50	120	0.0	320	5.57	36.662	83.984
96		B	387	216	56%	MG	Marist-Sion College Warragul	9 10	2 4	2	4.5	0	18.5	8 15.0	62 13.4	28.4	0	M	35	110	0.0	270	5.66	36.529	83.422
72		B	403	221	55%	AA	Gundagai High School	7 10	2 4	5	5	0	19.0	9 13.0	68 16.3	29.3	0	M	35	100	0.0	160	5.67	35.090	83.420
81		B	372	226	61%	AA	Longerenong College	7 10	2 4	2	4.5	0	18.5	5 15.0	64 13.6	28.6	0	M	45	110	0.0	260	5.60	36.010	83.124
8		B	426	228	54%	SD	Barham High School	6 10	2 4	2	4	0	18.0	8 15.0	64 13.4	28.4	0	M	30	100	0.0	210	5.46	36.624	83.057
16		B	384	229	60%	SixHH	Billabong High School	7 10	1B 5	2	4	0	19.0	7 15.0	68 15.6	30.6	0	F	45	140	0.0	250	5.58	32.662	82.264
5		B	402	228	57%	SD	Barham High School	10 10	1C 5	2	4.5	0	19.5	7 15.0	61 11.7	26.7	0	M	45	130	1.0	340	5.50	35.819	82.057
52		B	394	233	59%	BW	Finley High School	8 10	2 4	2	4.5	0	18.5	6 15.0	61 11.3	26.3	0	M	45	110	1.0	330	5.50	36.843	81.626
131		B	350	209	60%	HH	Swifts Creek Secondary College	8 10	3 2	2	4.5	0	16.5	5 15.0	62 14.0	29.0	0	M	40	120	0.0	330	5.60	35.876	81.406

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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 Show Carcase Competition 2009

Competition Date: 24/09/2009

Quarterming Site: 10-11 Rib

EXHIBITOR BY CLASS

Continued: Class: 2 - Medium Domestic 181-240kg

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				
74	B		399	235	59%	MG	Ian & Anne Burnside	8	10	1C	5	2	4	0	19.0	9	13.0	66	13.9	26.9	0	M	30	130	1.0	270	5.50	35.224	81.150
53	B		398	237	60%	SS	Finley High School	7	10	1C	5	3	4	0	19.0	5	15.0	66	13.7	28.7	0	M	40	130	0.0	210	5.59	33.100	80.845
45	B		368	210	57%	BW	Finley High School	11	8	2	4	1	4	0	16.0	11	9.0	68	17.3	26.3	0	M	40	100	0.0	320	5.46	38.024	80.353
141	B		409	236	58%	MG	Timbertop	9	10	1C	5	2	4	0	19.0	10	11.0	64	12.7	23.7	0	M	45	100	0.0	280	5.58	37.614	80.320
154	B		370	206	56%	MG	Wagga Wagga High School	8	10	2	4	3	5	0	19.0	7	15.0	55	10.3	25.3	0	M	45	120	0.0	260	5.52	35.581	79.929
98	B		389	230	59%	MG	Marist-Sion College Warragul	8	10	1C	5	2	4.5	0	19.5	10	11.0	63	12.7	23.7	0	M	50	110	0.0	250	5.55	36.614	79.800
25	B		383	240	63%	LL	Chairo Christian School	6	10	3	2	1	3	0	15.0	8	15.0	73	17.4	32.4	0	F	50	140	0.0	130	5.67	31.938	79.365
137	B		415	238	57%	MG	Timbertop	8	10	2	4	3	5	0	19.0	10	11.0	63	12.0	23.0	0	M	35	100	0.0	230	5.49	36.771	78.730
128	B		398	227	57%	SIXSI	St Pauls College	7	10	1C	5	2	4.5	0	19.5	10	11.0	63	13.0	24.0	0	M	40	120	0.0	230	5.47	35.100	78.559
30	B		406	238	59%	AAXAA	Claidheamh Organic Beef	8	10	3	2	3	4	0	16.0	6	15.0	64	12.5	27.5	0	M	30	120	0.0	230	5.57	34.467	77.990
23	B		373	223	60%	LLXRP	Chairo Christian School	13	4	2	4	2	4	0	12.0	6	15.0	71	17.8	32.8	0	F	45	140	0.0	250	5.56	32.638	77.480
29	B		398	240	60%	PH	Claidheamh Organic Beef	8	10	3	2	3	4	0	16.0	7	15.0	61	10.6	25.6	0	M	35	130	0.0	300	5.64	35.286	76.933
70	B		435	239	55%	MG	Gundagai High School	7	10	2	4	2	4.5	0	18.5	4	12.0	59	9.6	21.6	0	M	45	100	0.0	230	5.60	36.462	76.570
71	B		344	184	53%	AA	Gundagai High School	9	10	1B	5	2	4.5	0	19.5	13	5.0	63	16.9	21.9	0	F	30	140	0.0	260	5.54	34.743	76.111
68	B		368	207	56%	MG	J & F Glover	11	8	2	4	5	4.5	0	16.5	8	15.0	51	8.0	23.0	0	M	45	130	0.0	250	5.48	34.481	73.978
35	B		366	223	61%	LWXLL	Elandra Park Stud	15	0	2	4	4	4	0	8.0	8	15.0	66	15.0	30.0	0	M	45	140	1.0	340	5.47	35.367	73.384
140	B		419	233	56%	MGXMG	Timbertop	12	6	1B	5	3	4.5	0	15.5	12	7.0	62	11.8	18.8	0	M	40	100	1.0	330	5.55	38.086	72.434
112	B		385	240	62%	LL	Nagle College	3	5	3	2	2	2	0	9.0	3	8.0	92	20.0	28.0	0	M	40	110	0.0	180	5.63	34.105	71.105
78	B		312	198	63%	MGXMG	Longerenong College	2	3	1C	5	2	2.5	0	10.5	3	8.0	95	20.0	28.0	0	M	60	130	0.0	100	5.51	31.033	69.533
7	B		395	232	59%	SD	Barham High School	9	10	2	4	2	5	0	19.0	15	0.0	64	13.1	13.1	0	M	55	100	0.0	200	5.67	36.676	68.745
152	B		357	203	57%	SS	Wagga Wagga High School	11	8	1C	5	2	4	0	17.0	13	5.0	45	5.0	10.0	0	M	35	140	1.0	360	5.53	36.105	63.075
129	B		338	197	58%	SIXSI	St Pauls College	5	9	5	0	2	3	0	12.0	8	15.0	66	17.4	32.4	0	M	35	110	0.0	180	6.05	0.000	44.381
175	B		369	235	64%	LL	Yanco Agricultural High School	5	9	5	0	1	3.5	0	12.5	8	15.0	71	16.8	31.8	0	F	40	140	0.0	250	6.02	0.000	44.251
31	B		387	240	62%	SQ	Cootamundra High School	10	10	5	0	2	5	0	15.0	8	15.0	65	12.9	27.9	0	M	60	130	1.0	340	6.03	0.000	42.907
127	B		389	221	57%	SIXSI	St Pauls College	6	10	4	1	3	4	0	15.0	7	15.0	60	11.8	26.8	0	M	40	130	0.0	200	5.73	0.000	41.809

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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
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EMA - Eye Muscle Area (sq cm)

*** MSA - Eating Quality
 *** MSA - Eating Quality
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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 Show Carcase Competition 2009

Competition Date: 24/09/2009

Quartering Site: 10-11 Rib

EXHIBITOR BY CLASS

Continued: Class: 2 - Medium Domestic 181-240kg

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			
123		B	365	210	58%	WB	Rutherglen High School	5	9	3	2	3	0	14.0	3	8.0	64	15.1	23.1	0	M	45	110	0.0	150	5.75	0.000	37.069
139		B	392	227	58%	MG	Timbertop	8	10	4	1	3	4	15.0	11	9.0	56	9.0	18.0	0	M	40	100	0.0	330	5.94	0.000	33.004
59		B	384	232	60%	GVXRA	Glenormiston- South West TAFE	3	5	4	1	2	2.5	8.5	2	4.0	70	16.5	20.5	0	M	45	110	0.0	150	5.76	0.000	28.959
58		B	366	217	59%	GV	Glenormiston- South West TAFE	2	3	3	2	2	2	7.0	1	0.0	86	20.0	20.0	0	M	40	110	0.0	150	5.56	0.000	27.000

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DIST
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Legend
* Market Specifications
* Market Specifications
P8 Fat - P8 Fat (mm)
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MSAMB - Meat 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

pH

Royal Melbourne Show Carcase Competition 2009

Competition Date: 24/09/2009

Quartering Site: 10-11 Rib

EXHIBITOR BY CLASS

Class: 3 - Heavy Domestic 241-300kg

Body ID	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				
77		C	437	273	62%	SS	Longerenong College	9	10	1C	5	2	5	0	20.0	10	15.0	87	20.0	35.0	0	M	55	100	1.0	320	5.50	37.952	92.952
166		C	412	249	60%	LL	Yanco Agricultural High School	10	10	1B	5	1	5	0	20.0	8	15.0	79	20.0	35.0	0	M	45	100	0.0	200	5.63	36.467	91.465
13		C	417	279	67%	LL	Billabong High School	9	10	2	4	1	5	0	19.0	8	15.0	109	20.0	35.0	0	M	60	100	0.0	270	5.64	36.838	90.838
161		C	461	290	63%	LLXSS	Yanco Agricultural High School	10	10	1C	5	1	4	0	19.0	9	15.0	87	20.0	35.0	0	M	60	110	1.0	300	5.54	36.829	90.829
26		C	399	243	61%	LLXRP	Chairo Christian School	11	10	2	4	3	4.5	0	18.5	8	15.0	85	20.0	35.0	0	M	60	110	0.0	250	5.56	36.524	90.024
160		C	470	295	63%	MG	Yanco Agricultural High School	8	10	1B	5	2	4.5	0	19.5	7	15.0	84	18.6	33.6	0	M	60	130	1.0	380	5.60	36.310	89.451
147		C	450	285	63%	BLXCC	Tumbywood Pty Ltd	6	8	1C	5	3	3.5	0	16.5	8	15.0	88	20.0	35.0	0	M	45	100	0.0	300	5.60	37.367	88.867
85		C	449	286	64%	LL	Longerenong College	9	10	1C	5	2	4	0	19.0	7	15.0	98	20.0	35.0	0	M	65	130	0.0	260	5.38	34.762	88.762
41		C	455	273	60%	SS	Finley High School	11	10	1B	5	2	4.5	0	19.5	10	15.0	78	17.3	32.3	0	M	65	100	0.0	230	5.56	36.757	88.509
46		C	407	258	63%	HH	Finley High School	10	10	2	4	2	5	0	19.0	10	15.0	78	18.6	33.6	0	M	50	120	0.0	260	5.59	35.705	88.320
10		C	422	253	60%	SD	Barham High School	9	10	1C	5	1	4	0	19.0	10	15.0	90	20.0	35.0	0	M	50	110	0.0	160	5.55	34.205	88.205
6		C	430	260	60%	SD	Barham High School	8	10	1C	5	1	4	0	19.0	8	15.0	79	19.0	34.0	0	M	40	100	0.0	160	5.53	35.110	88.108
172		C	389	256	66%	LL	Yanco Agricultural High School	6	8	1C	5	1	3.5	0	16.5	7	15.0	97	20.0	35.0	0	M	50	110	0.0	260	5.46	36.538	88.038
163		C	481	289	60%	MG	Yanco Agricultural High School	11	10	1C	5	3	5	0	20.0	9	15.0	78	15.8	30.8	0	M	55	110	0.0	270	5.52	36.700	87.497
107		C	424	273	64%	LL	Nagle College	7	9	2	4	2	3.5	0	16.5	7	15.0	97	20.0	35.0	0	M	45	120	0.0	270	5.66	35.643	87.143
89		C	462	286	62%	LL	Marist-Sion College Warragul	9	10	2	4	2	4	0	18.0	8	15.0	100	20.0	35.0	0	M	65	120	0.0	170	5.62	34.129	87.129
170		C	418	250	60%	MG	Yanco Agricultural High School	11	10	3	2	2	4.5	0	16.5	9	15.0	76	18.2	33.2	0	M	55	110	1.0	330	5.56	37.367	87.079
39		C	443	264	60%	HH	Emmanuel College & K Hodge	11	10	1C	5	2	5	0	20.0	9	15.0	73	15.2	30.2	0	M	50	100	0.0	200	5.50	36.595	86.840
178		C	467	278	60%	AA	Yanco Agricultural High School	12	10	2	4	2	5	0	19.0	11	13.0	78	16.8	29.8	0	M	60	110	1.0	340	5.58	37.390	86.188
168		C	409	251	61%	LL	Yanco Agricultural High School	7	9	1C	5	2	4	0	18.0	7	15.0	96	20.0	35.0	0	F	40	140	0.0	180	5.53	32.505	85.505
153		C	448	258	58%	SS	Wagga Wagga High School	9	10	1C	5	2	4	0	19.0	7	15.0	70	14.1	29.1	0	M	50	120	1.0	370	5.56	36.795	84.891

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 Show Carcase Competition 2009

Competition Date: 24/09/2009

Quarterming Site: 10-11 Rib

EXHIBITOR BY CLASS

Continued: Class: 3 - Heavy Domestic 241-300kg

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
173		C	417	251	60%	MG	Yanco Agricultural High School	9	10	2	4	2	5	0	19.0	10	15.0	70	14.7	29.7	0	M	50	120	0.0	270	5.56	35.767	84.498
164		C	502	300	60%	HH	Yanco Agricultural High School	13	10	1C	5	3	5	0	20.0	12	11.0	85	18.8	29.8	0	M	60	120	0.0	200	5.59	34.448	84.200
121		C	450	266	59%	SG	Riverslea Santa Gertrudis	11	10	2	4	3	5	0	19.0	5	13.0	80	19.0	32.0	38	M	75	110	0.0	200	5.49	33.114	84.132
105		C	443	269	61%	LL	Nagle College	12	10	2	4	3	4.5	0	18.5	12	11.0	75	15.9	26.9	0	M	40	100	0.0	270	5.62	37.590	83.011
144		C	420	260	62%	AAXMG	Timbertop	10	10	1C	5	3	4	0	19.0	12	11.0	74	16.2	27.2	0	M	50	120	0.0	320	5.48	36.748	82.921
177		C	405	250	62%	LLXSS	Yanco Agricultural High School	9	10	1C	5	1	4	0	19.0	12	11.0	70	14.8	25.8	0	M	50	100	1.0	340	5.38	38.090	82.913
111		C	413	244	59%	ACXAA	Nagle College	13	10	2	4	2	4.5	0	18.5	10	15.0	67	13.7	28.7	0	M	55	120	0.0	260	5.51	35.705	82.878
90		C	440	259	59%	AA	Marist-Sion College Warragul	12	10	1C	5	2	4.5	0	19.5	11	13.0	69	13.4	26.4	0	M	60	130	0.0	300	5.43	35.748	81.687
48		C	436	287	61%	SS	Finley High School	16	4	1C	5	1	4.5	0	13.5	10	15.0	74	15.5	30.5	0	M	60	120	1.0	370	5.51	37.357	81.394
115		C	478	283	55%	AC	Northern Melb Institute of TAFE	10	10	2	4	1	4.5	0	18.5	10	15.0	65	10.8	25.8	0	M	45	120	1.0	340	5.60	36.757	81.073
76		C	463	270	58%	HH	Leongatha Secondary School	11	10	1C	5	1	5	0	20.0	10	15.0	61	7.9	22.9	0	M	50	100	1.0	340	5.48	38.067	80.986
99		C	473	273	58%	SS	Mc Kay Bros	9	10	2	4	8	4.5	0	18.5	8	15.0	66	10.5	25.5	0	M	50	110	1.0	330	5.60	36.881	80.853
142		C	445	265	60%	MG	Timbertop	10	10	3	2	1	4.5	0	16.5	11	13.0	73	15.2	28.2	0	M	50	110	0.0	230	5.69	36.052	80.706
38		C	440	261	59%	HH	Emmanuel College	14	8	1C	5	2	4	0	17.0	9	15.0	67	12.1	27.1	0	M	40	110	0.0	230	5.52	36.419	80.547
43		C	400	252	63%	AA	Finley High School	11	10	2	4	1	5	0	19.0	9	15.0	63	10.7	25.7	0	M	45	120	0.0	260	5.40	35.657	80.343
165		C	464	289	62%	RA	Yanco Agricultural High School	11	10	1C	5	2	4.5	0	19.5	11	13.0	72	12.4	25.4	0	M	60	130	0.0	270	5.51	35.281	80.188
36		C	439	254	58%	HH	Emmanuel College	10	10	2	4	4	5	0	19.0	10	15.0	62	9.9	24.9	0	M	40	120	0.0	240	5.38	35.490	79.430
32		C	415	250	60%	SS	Cootamundra High School	11	10	1C	5	2	4.5	0	19.5	9	15.0	56	6.9	21.9	0	M	50	100	0.0	270	5.55	37.338	78.751
50		C	518	280	54%	BW	Finley High School	11	10	2	4	2	4.5	0	18.5	11	13.0	67	10.4	23.4	0	M	40	100	0.0	220	5.49	36.738	78.639
54		C	413	249	60%	CC	Finley High School	15	6	1C	5	1	4	0	15.0	14	7.0	74	17.2	24.2	0	M	60	100	1.0	360	5.58	38.729	77.902
151		C	468	270	58%	SS	Wagga Wagga High School	7	9	3	2	3	4	0	15.0	9	15.0	64	9.6	24.6	0	M	45	100	0.0	210	5.59	36.633	76.248
108		C	435	280	64%	LLXLL	Nagle College	4	5	2	4	2	3	0	12.0	4	10.0	103	20.0	30.0	0	M	70	110	0.0	130	5.53	34.029	76.029
143		C	442	252	57%	AAXMG	Timbertop	10	10	2	4	2	4	0	18.0	11	13.0	57	7.3	20.3	0	M	40	100	0.0	200	5.55	36.643	74.939
63		C	474	268	57%	HH	Glenormiston- South West TAFE	9	10	3	2	3	5	0	17.0	9	15.0	59	7.0	22.0	0	M	40	120	0.0	200	5.59	34.181	73.152
171		C	437	259	59%	LL	Yanco Agricultural High School	6	8	2	4	2	4	0	16.0	13	9.0	68	12.9	21.9	0	F	40	140	1.0	270	5.43	35.152	73.027

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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

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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

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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 Show Carcase Competition 2009

Competition Date: 24/09/2009

Quarterming Site: 10-11 Rib

EXHIBITOR BY CLASS

Continued: Class: 3 - Heavy Domestic 241-300kg

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
162		C	451	271	60%	AA	Yanco Agricultural High School	9 10	1C 5	2 5	5	0	20.0	14 7.0	62 8.4	15.4	0	M	55	120	2.0	370	5.48	37.410	72.803
37		C	499	295	59%	HH	Emmanuel College	15 6	2 4	3 4.5	4.5	0	14.5	10 15.0	68 9.6	24.6	0	M	55	140	0.0	210	5.51	33.148	72.249
106		C	478	279	58%	HH	Nagle College	10 10	1C 5	2 4.5	4.5	0	19.5	13 9.0	62 7.7	16.7	0	M	40	120	0.0	250	5.55	35.724	71.890
113		C	460	266	58%	AC	Northern Melb Institute of TAFE	15 6	1B 5	2 4.5	4.5	0	15.5	14 7.0	65 10.5	17.5	0	M	45	110	0.0	230	5.54	36.581	69.624
40		C	470	278	59%	HH	Finley High School	17 2	2 4	2 4.5	4.5	0	10.5	14 7.0	72 13.4	20.4	0	M	55	110	1.0	320	5.51	37.386	68.293
49		C	444	266	60%	SS	Finley High School	20 0	2 4	3 4	4	0	8.0	14 7.0	67 11.7	18.7	0	M	55	120	1.0	350	5.59	36.862	63.535
169		C	394	242	61%	LL	Yanco Agricultural High School	11 10	4 1	1 4	4	0	15.0	7 15.0	87 20.0	35.0	0	F	40	140	0.0	200	5.86	0.000	50.000
146		C	442	268	61%	SS	Tippetts Glengryon	10 10	5 0	2 4.5	4.5	0	14.5	10 15.0	82 20.0	35.0	0	M	60	130	1.0	340	6.32	0.000	49.466
87		C	405	243	60%	GA	Malcolm Galloways	9 10	4 1	5 4	4	0	15.0	7 15.0	76 18.8	33.8	0	M	40	110	0.0	320	5.73	0.000	48.849
24		C	435	277	64%	LLXLL	Chairo Christian School	4 5	3 2	2 3	3	0	10.0	7 15.0	93 20.0	35.0	0	M	45	100	0.0	200	5.72	0.000	45.000
93		C	493	286	58%	MG	Marist-Sion College Warragul	10 10	4 1	3 5	5	0	16.0	6 15.0	73 13.2	28.2	0	M	40	140	1.0	330	5.71	0.000	44.245
109		C	401	246	61%	LLXLL	Nagle College	7 9	5 0	1 3	3	0	12.0	4 10.0	104 20.0	30.0	0	M	40	120	0.0	200	6.18	0.000	42.000
130		C	445	255	57%	HH	Swifts Creek Secondary College	9 10	4 1	5 5	5	0	16.0	4 10.0	64 11.0	21.0	0	M	50	140	0.0	280	5.94	0.000	36.978
15		C	385	245	64%	LLXSS	Billabong High School	8 10	4 1	1 4.5	4.5	0	15.5	12 11.0	57 7.9	18.9	0	M	45	120	1.0	330	5.70	0.000	34.432
82		C	510	297	58%	CC	Longerenong College	4 5	3 2	2 3.5	3.5	0	10.5	2 4.0	86 19.6	23.6	0	M	50	100	0.0	150	5.48	0.000	34.090

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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 Show Carcase Competition 2009

Competition Date: 24/09/2009

Quartering Site: 10-11 Rib

EXHIBITOR BY CLASS

Class: 4 - Export 301+ kg

Body ID	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				
103		D	540	343	64%	MG	Mt Compass Area School	12	10	1C	5	1	5	0	20.0	10	15.0	97	20.0	35.0	0	M	60	100	0.0	200	5.43	36.595	91.595
101		D	568	357	63%	SD	Mt Compass Area School	13	10	2	4	3	5	0	19.0	10	15.0	107	20.0	35.0	0	M	70	120	1.0	380	5.55	37.400	91.400
92		D	554	349	63%	LLXLL	Marist-Sion College Warragul	11	9	1C	5	2	4	0	18.0	10	15.0	112	20.0	35.0	0	M	65	130	2.0	400	5.45	37.319	90.319
132		D	634	386	61%	AA	The University of Adelaide	16	10	1C	5	3	4	0	19.0	12	15.0	101	20.0	35.0	0	M	60	140	1.0	350	5.38	36.262	90.236
134		D	552	340	62%	LLXRA	The University of Adelaide	11	9	1C	5	2	4	0	18.0	12	15.0	92	19.1	34.1	0	M	55	110	1.0	360	5.59	37.429	89.499
102		D	590	375	64%	LL	Mt Compass Area School	12	10	2	4	2	4.5	0	18.5	13	15.0	98	19.3	34.3	0	M	65	130	1.0	310	5.35	36.157	88.936
133		D	588	375	64%	LL	The University of Adelaide	11	9	2	4	2	3.5	0	16.5	9	15.0	122	20.0	35.0	0	M	70	120	0.0	320	5.48	36.729	88.229
86		D	510	314	62%	CCXSS	Longerenong College	14	10	1C	5	1	4	0	19.0	10	15.0	82	15.8	30.8	0	M	50	120	2.0	440	5.47	38.019	87.804
1		D	602	363	60%	AA	M & S Atkinson	18	8	2	4	3	4.5	0	16.5	12	15.0	101	20.0	35.0	0	M	60	160	2.0	390	5.45	36.186	87.686
150		D	556	370	67%	LL	Tumut High School	12	10	2	4	2	4	0	18.0	10	15.0	110	20.0	35.0	0	M	70	120	0.0	210	5.52	34.500	87.500
17		D	502	313	62%	LLXSS	Billabong High School	11	9	1B	5	1	4	0	18.0	9	15.0	95	20.0	35.0	0	M	50	120	0.0	200	5.61	34.181	87.181
64		D	518	307	59%	AA	Glenormiston- South West TAFE	13	10	1C	5	4	4	0	19.0	9	15.0	83	17.0	32.0	0	M	50	140	1.0	360	5.48	36.105	87.091
97		D	475	301	63%	BAXAA	Marist-Sion College Warragul	13	10	1B	5	2	4	0	19.0	15	11.0	93	20.0	31.0	0	M	55	130	1.0	340	5.49	36.705	86.705
67		D	564	344	61%	LLXAA	Glenormiston- South West TAFE	10	8	2	4	4	4	0	16.0	9	15.0	103	20.0	35.0	0	M	60	130	0.0	280	5.42	35.614	86.614
149		D	718	463	64%	BLXCC	Tumbywood Pty Ltd	18	8	2	4	3	3	0	15.0	12	15.0	118	20.0	35.0	0	M	70	150	1.0	330	5.50	36.138	86.138
156		D	552	329	60%	MG	Watermill Pastoral Co	10	8	1C	5	4	4	0	17.0	14	13.0	91	19.5	32.5	0	M	55	130	1.0	320	5.48	36.600	86.106
42		D	554	334	60%	SS	Finley High School	17	10	1C	5	3	4.5	0	19.5	7	13.0	88	17.4	30.4	0	M	65	130	1.0	350	5.45	36.233	86.090
47		D	526	314	60%	BZXHH	Finley High School	14	10	2	4	2	4.5	0	18.5	15	11.0	95	20.0	31.0	0	M	60	140	1.0	340	5.52	36.195	85.695
124		D	666	402	60%	CC	H A Seeley	16	10	2	4	1	4	0	18.0	15	11.0	106	20.0	31.0	0	M	65	140	1.0	350	5.52	36.662	85.662
12		D	496	303	61%	MG	Billabong High School	10	8	1C	5	2	4.5	0	17.5	13	15.0	79	15.1	30.1	0	M	60	100	0.0	300	5.44	37.910	85.499
79		D	518	333	64%	SS	Longerenong College	10	8	2	4	2	5	0	17.0	8	15.0	87	16.9	31.9	0	M	60	130	1.0	360	5.58	36.576	85.458

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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

** 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 Show Carcase Competition 2009

Competition Date: 24/09/2009

Quarterming Site: 10-11 Rib

EXHIBITOR BY CLASS

Continued: Class: 4 - Export 301+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				
44		D	514	316	61%	SSXMG	Finley High School	17	10	1B	5	1	4	0	19.0	14	13.0	84	16.7	29.7	0	M	60	130	1.0	340	5.51	36.695	85.428
62		D	558	333	60%	PH	Glenormiston- South West TAFE	19	6	1C	5	1	4	0	15.0	14	13.0	89	18.0	31.0	0	M	45	120	2.0	450	5.51	38.467	84.479
14		D	524	319	61%	AA	Billabong High School	14	10	2	4	1	5	0	19.0	12	15.0	79	13.6	28.6	0	M	50	120	1.0	340	5.40	36.829	84.464
65		D	566	325	57%	AA	Glenormiston- South West TAFE	10	8	2	4	3	4	0	16.0	8	15.0	85	16.5	31.5	0	M	50	120	1.0	330	5.47	36.719	84.199
84		D	528	303	57%	RAXCC	Longerenong College	12	10	2	4	2	4	0	18.0	7	13.0	77	14.0	27.0	0	M	60	100	1.0	350	5.57	37.719	82.679
4		D	666	412	62%	CC	Barham High School	9	7	3	2	2	3.5	0	12.5	9	15.0	121	20.0	35.0	0	M	75	140	0.0	270	5.57	35.176	82.676
100		D	610	362	59%	RA	Mt Compass Area School	13	10	2	4	3	4.5	0	18.5	12	15.0	82	11.4	26.4	0	M	60	120	1.0	360	5.40	37.381	82.302
21		D	502	323	64%	PMXHH	Brookfield Piedmontese	10	8	2	4	3	3.5	0	15.5	11	15.0	84	16.1	31.1	0	M	60	120	0.0	230	5.42	35.533	82.130
117		D	616	377	61%	AA	Northern Melb Institute of TAFE	14	10	1C	5	3	5	0	20.0	10	15.0	80	8.9	23.9	0	M	60	130	2.0	480	5.51	38.162	82.089
56		D	491	302	62%	CC	ML & GJ Galvin	10	8	2	4	2	4.5	0	16.5	10	15.0	76	13.5	28.5	0	M	45	120	1.0	360	5.51	36.857	81.843
120		D	652	400	61%	AA	Northern Melb Institute of TAFE	11	9	1C	5	2	5	0	19.0	9	15.0	87	10.8	25.8	0	M	60	160	1.0	350	5.46	35.395	80.187
116		D	502	311	62%	RP	Northern Melb Institute of TAFE	11	9	2	4	2	4	0	17.0	8	15.0	79	14.4	29.4	0	M	50	150	0.0	250	5.52	32.571	78.934
83		D	504	301	60%	AAXCC	Longerenong College	15	10	2	4	1	4	0	18.0	11	15.0	68	9.1	24.1	0	M	60	100	0.0	240	5.62	36.790	78.847
125		D	590	379	64%	CCXRA	H A Seeley	17	10	2	4	3	5	0	19.0	17	7.0	91	15.0	22.0	0	M	60	110	1.0	340	5.47	37.429	78.389
118		D	554	345	62%	CCXAA	Northern Melb Institute of TAFE	10	8	3	2	4	4.5	0	14.5	9	15.0	84	14.1	29.1	0	M	50	140	0.0	260	5.57	34.762	78.358
104		D	550	348	63%	MG	Mt Compass Area School	10	8	2	4	2	3.5	0	15.5	10	15.0	78	10.4	25.4	0	M	60	120	0.0	310	5.46	36.705	77.638
61		D	552	333	60%	AAXPH	Glenormiston- South West TAFE	14	10	2	4	3	4.5	0	18.5	11	15.0	70	7.3	22.3	0	M	60	120	1.0	340	5.58	36.790	77.568
80		D	530	333	63%	AAXCC	Longerenong College	11	9	2	4	4	4.5	0	17.5	10	15.0	74	9.5	24.5	0	M	60	140	0.0	280	5.56	35.233	77.271
18		D	582	348	60%	SSXMG	Billabong High School	11	9	1C	5	2	5	0	19.0	13	15.0	72	7.0	22.0	0	M	60	140	1.0	320	5.51	35.790	76.834
119		D	612	359	59%	AA	Northern Melb Institute of TAFE	16	10	1C	5	2	4.5	0	19.5	10	15.0	71	5.5	20.5	0	M	60	140	1.0	330	5.37	35.786	75.764
157		D	530	321	61%	MG	Watermill Pastoral Co	12	10	2	4	2	4.5	0	18.5	14	13.0	68	7.2	20.2	0	M	60	130	0.0	320	5.48	36.581	75.319
33		D	520	314	60%	RP	R Draper	10	8	2	4	3	4	0	16.0	4	6.0	91	20.0	26.0	0	M	60	150	0.0	240	5.63	32.476	74.476
88		D	456	311	68%	ASXCC	Malton Shorthorns - Falls & Davies	7	3	3	2	2	3	0	8.0	6	11.0	126	20.0	31.0	0	M	65	120	0.0	260	5.69	34.805	73.805
20		D	704	448	64%	PMXAA	Brookfield Piedmontese	20	4	2	4	3	4	0	12.0	17	7.0	104	16.0	23.0	0	M	65	190	1.0	360	5.45	36.081	71.114
110		D	461	305	66%	LL	Nagle College	7	3	3	2	2	2.5	0	7.5	4	6.0	110	20.0	26.0	0	M	60	120	0.0	270	5.52	35.162	68.662

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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)
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pH

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4. Meat Colour of 1a or greater than 3

Royal Melbourne Show Carcase Competition 2009

Competition Date: 24/09/2009

Quartering Site: 10-11 Rib

EXHIBITOR BY CLASS

Continued: Class: 4 - Export 301+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
135		D	568	354	62%	MG	The University of Adelaide	15 / 10	2 / 4	2	4.5	0	18.5	15 / 11.0	64 / 2.0	13.0	0	M	60	130	1.0	330	5.36	36.671	68.150
126		D	666	410	62%	CCXRA	H A Seeley	19 / 6	1C / 5	3	4	0	15.0	25 / 0.0	87 / 9.9	9.9	0	M	60	130	2.0	440	5.48	38.419	63.301
138		D	750	471	63%	MG	Timbertop	13 / 10	2 / 4	2	4.5	0	18.5	23 / 0.0	76 / 0.0	0.0	0	M	65	180	2.0	460	5.45	37.919	56.419
114		D	572	349	61%	CCXRP	Northern Melb Institute of TAFE	14 / 10	4 / 1	2	4.5	0	15.5	14 / 13.0	83 / 13.2	26.2	0	M	65	150	2.0	460	5.68	0.000	41.668
148		D	618	400	65%	BLXCC	Tumbywood Pty Ltd	12 / 10	5 / 0	2	5	0	15.0	14 / 13.0	85 / 9.7	22.7	0	M	60	140	0.0	260	5.85	0.000	37.661

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Build No: 1060

AUSTRALIAN BEEF CARCASE APPRAISAL SYSTEM - (ABCAS)

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Royal Melbourne Show Carcass Competition 2009

Quartering Day: 24th August 2009

EXHIBITOR BY CLASS

Class	Exhibitor	Weight	Grade	Score	Comments
100	100	400	100	100	Excellent carcass
	101	380	95	95	Very good carcass
	102	420	105	105	Good carcass
	103	390	98	98	Very good carcass
	104	410	102	102	Good carcass
	105	370	92	92	Very good carcass
	106	430	108	108	Good carcass
	107	360	90	90	Very good carcass
	108	440	110	110	Good carcass
	109	350	88	88	Very good carcass
200	200	800	200	200	Excellent carcass
	201	780	195	195	Very good carcass
	202	820	205	205	Good carcass
	203	790	198	198	Very good carcass
	204	810	202	202	Good carcass
	205	770	192	192	Very good carcass
	206	830	208	208	Good carcass
	207	760	190	190	Very good carcass
	208	840	210	210	Good carcass
	209	750	188	188	Very good carcass
300	300	1200	300	300	Excellent carcass
	301	1180	295	295	Very good carcass
	302	1220	305	305	Good carcass
	303	1190	298	298	Very good carcass
	304	1210	302	302	Good carcass
	305	1170	292	292	Very good carcass
	306	1230	308	308	Good carcass
	307	1160	290	290	Very good carcass
	308	1240	310	310	Good carcass
	309	1150	288	288	Very good carcass
400	400	1600	400	400	Excellent carcass
	401	1580	395	395	Very good carcass
	402	1620	405	405	Good carcass
	403	1590	398	398	Very good carcass
	404	1610	402	402	Good carcass
	405	1570	392	392	Very good carcass
	406	1630	408	408	Good carcass
	407	1560	390	390	Very good carcass
	408	1640	410	410	Good carcass
	409	1550	388	388	Very good carcass

EXHIBITOR BY CLASS

Quartering Day: 24th August 2009

EXHIBITOR BY CLASS

**The Royal Agricultural
Society of Victoria**



RASV

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