

MSA Carcase Competition Model.



Class Creation, Rule Selection and Point Allocation.

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1. Creating New Classes

1.1 Creating a New Class

First Navigate to the details page and select Add a Class.

MSA Competition System - Test Competition for Competition Admin User

Admin MJA / Sys Admin Logout

Grand total

EQ Points Total 0 + Market Specification Total Points 0 + LMY/SMY Point Total 0 + Pen Bonus Points Total 15 = Grand total 0

Notes about the plant(s) (3)

Notes about MSA involvement

Notes about the grading and data collection

Update

Classes

Classes for this competition:

Add a Class to this competition

Class	Long Title	Edit
-------	------------	------



- Home
- myMSA Menu
- Calendar
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Home / Competition - Test Competition for Competition Admin User / Class Details Test Class 1 (300-350kg Liveweight)

Class Details Test Class 1 (300-350kg Liveweight)

Comp GUID: 57F6D0DC-292C-C689-3949-8001582F883, Class GUID: 839A1B66-7D57-D45F-03F8-64B4856A8853

Class full name (100)

Test Class 1 (300-350kg Liveweight)

Report Title (100)

Test Class 1 (300-350kg Liveweight)

Short Title (100)

Test Class 1 (300-350kg Liveweight)

Class Description (1000)

Test Class 1 (300-350kg Liveweight)

Update

Class Number/ Order

1

Class rules, scores and penalties

The Class rules, scores and penalties for this class:

Add a Rule to see this competition: ?

MSA Index - (Calculation)

Add Rule to competition

Order	Title	Description	Type	Coeff ?	Limit ?	Edit ?	Delete
-------	-------	-------------	------	---------	---------	--------	--------

Delete this Class

Next update the Class name and Class number.
Note: Class number must be a whole number.

1.2 Selecting Rules

The next step in setting up a class is to select the rules which will assign points and tell the system where to select data from (Exhibitor information or MSA grading file). This is done by selecting the drop-down menu and adding a rule at a time until all required rules have been added.

Note: Not all rules are required for a competition, please review sections 1.2.1-1.2.3, Competition Rule Examples (accessed in the detail page quick links) and previous competitions to select relevant rules based on your individual competition point allocation. Please reach out to the MSA team if you have any issues selecting appropriate rules.

Class rules, scores and penalties

The Class rules, scores and penalties for this class:

Add a Rule to see this competition: ?

MSA Index - (Calculation)

▼

Add Rule to competition

Order	Title	Description	Type	Coeff ?	Limit ?	Edit ?	Delete
-------	-------	-------------	------	---------	---------	--------	--------

Delete this Class

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1.2.1 Single Animal Competition (No Weight Points)

Below is a list of possible rules which can be selected for a single carcase competition not assigning bonus points based on live or carcase weight. Rules in bold are mandatory and must be added for results to be generated.

Rule Title	Rule Description
MSA Index	MSA Index Only (Selects the MSA Index from the Grading File)
MSA Index and Opportunity Index Combine	Use Opportunity Index in the place of MSA Index if MSA Index is missing (Will use the opportunity index for carcasses that did not meet MSA eligibility)
P8 Fat Combine	Grading file p8Fat or Exhibitor file p8fat (Required for non-integrated plants where the p8 Fat is uploaded in the exhibitor data)
P8 Fat Combine Points and Penalties	P8 fat depth points from grade or exhibitor file are assigned to the P8 Points attribute per P8 value and applied to the Market Specifications total. (Rule must be used if the p8 fat is uploaded with the exhibitor file)
EQ Points	EQ Points are calculated based on a formula using the MSA index. The result is assigned to the EQ Points and applied to the Eating Quality total.
EMA Points (Simple)	EMA points are assigned using the EMA in the grading data multiplied by a coefficient.
P8 Fat Points and Penalties	P8 fat depth points are assigned to the P8 Points attribute per P8 value and applied to the Market Specifications total. (only use if p8 fat is uploaded in the grading data)
Rib Fat Points and Penalties	Rib Fat points are assigned to the RF Points attribute per Rib Fat value and applied to the Market Specifications total
Meat Colour Points and Penalties	Meat Colour points are assigned to the Meat Colour Points attribute per Meat Colour value and applied to the Market Specifications total.
Class weight range penalties (Live Weight)	Where the Live Weight is outside of the range for the Class Live Weight range the carcase is disqualified, and the total points are set to 0.
Class weight range penalties (HSCW)	Where the HSCW is outside of the range for the Class HSCW range the carcase is disqualified and the total points are set to 0.
Bruising Disqual	Allows the selection of a Bruising Disqualification based on an Aus-Meat bruise score.
Dentition penalties	Where the Dentition is outside of the range for the Class Dentition range the carcase is disqualified and the total points are set to 0.
Fat Colour Points and Penalties	Fat Colour points are assigned to the Fat Colour Points per Fat Colour value and applied to the Market Specifications total.
SMY/ LMY calculation	Calculation of LMY/SMY points using HSCW, EMA and Rib fat cold
Competition Exhibitor Fat Distribution Score	Competition Exhibitor Fat Distribution Score
LMY points	Calculating the LMY Points
EMA points (RIB and HSCW adjusted)	EMA points are calculated based on a formula using the ribbing site rib number of 11, 12, or 13 and the adjusted by the measured EMA and the HSCW. The result is assigned to the EMA points and applied to the Saleyard Meat Yield total.
EMA Coefficient Calculation	EMA Coefficient Calculation for complex EMA Formula. This scales the EMA for input into the EMA Points (RIB and HSCW adjusted)
Market Spec Points Total	Calculating the Market Spec total point by adding P8 Points, MC points, Fc Points and Fat Distribution Points, and Rib Fat Points
EQ Points Total	Calculating MSA/EQS total points
LMY Points Total	Assign LMY Points total

Rule Title	Rule Description
Penalty Points Total	Calculating the Penalty Points total by adding penalty column values
Assign total scores	Assign total score
Grand Total Single Animal	Grand Total Single Animal

1.2.2 Single Animal Competition (Weight Points)

Additional rules which can be allocated when “Weight Points” are selected on the competition details page. Weight points can be assigned through the rules in the table below:

Rule Title	Rule Description
Open Class Weight Points (Live Weight)	Points allocated on carcase Live Weight, dependent on which range the Live Weight falls.
Open Class Weight Points (HSCW)	Points allocated on carcase HSCW, dependent on which range the HSCW falls.
Excess HSCW Penalty Points	Penalty points (multiplier defined in "coefficient" field) applied to each kg over threshold (defined in "limit" field)
Class weight range penalties (HSCW)	Where the HSCW is outside of the range for the Class HSCW range the carcase is disqualified and the total points are set to 0.

1.2.3 Pen Competition Rules

Pen Competitions have additional rules for verification of animals within pen and addition columns. These rules will only appear if Pen competition is selected on the competition details page. Rules in bold are mandatory and must be added for results to be generated.

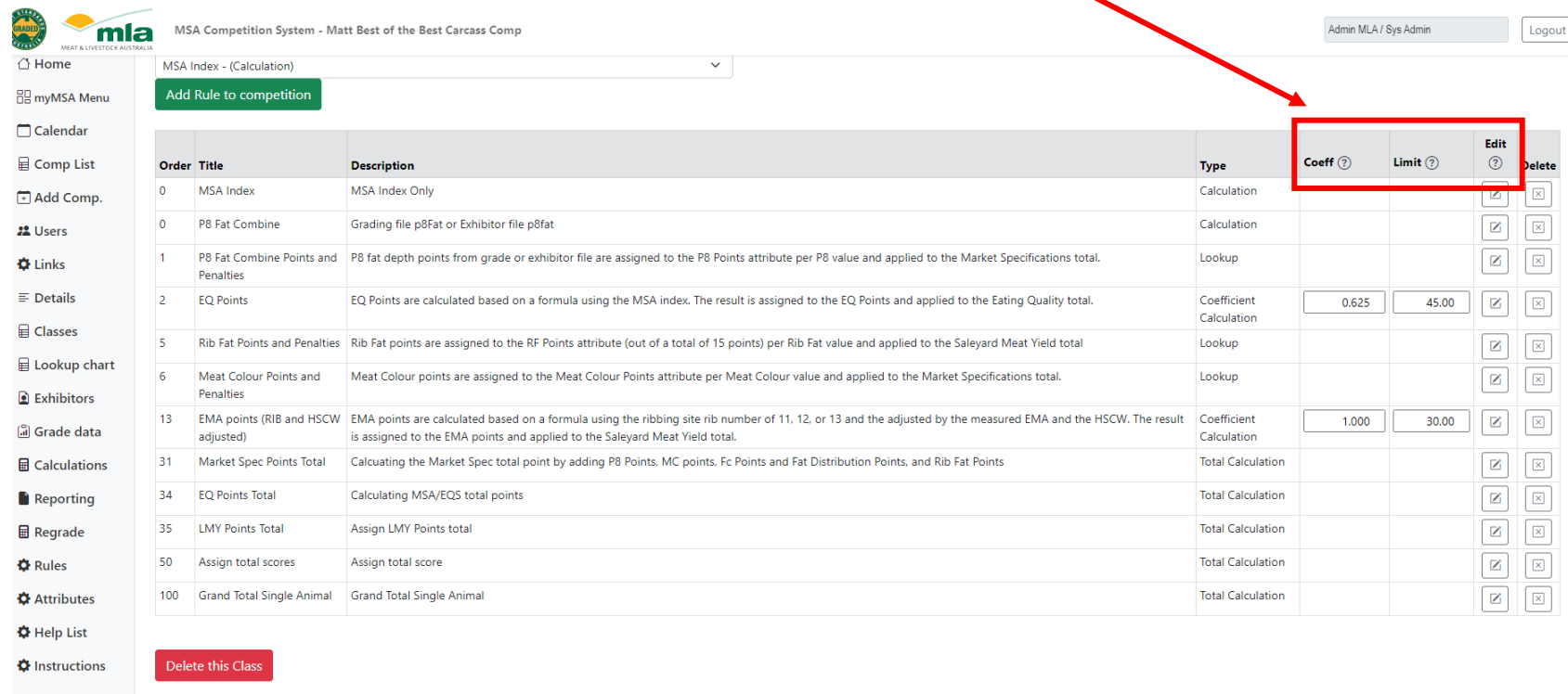
Rule Title	Rule Description
Pen Size Validation	The number of cattle in the pen must be the same for each pen
Pen Mixed Sex Validation	The number of distinct sexes in a pen must be equal for each pen (DO NOT EDIT)
Pen Bonus EQ	Pen Bonus for EQ
Pen Bonus LMY	Pen Bonus for LMY
Pen Bonus HSCW	Pen Bonus for HSCW
Pen Bonus Total	Add the pen bonus points together
Penalty Points Total	Calculating the Penalty Points total by adding penalty column values
Pen Total Score	Total Score for the pen
Grand Total Pen	Grand Total Pen

1.3 Setting up point allocations

Once rules have been added to a competition, the next step is to select the point allocation specific to a competition and class.

This is completed by changing the coefficient , limit and editing of specific rules.

Note the edit button also saves the lines where a coefficient or limit has been changed.



MSA Competition System - Matt Best of the Best Carcass Comp

Admin MLA / Sys Admin Logout

Home MSA Index - (Calculation) Add Rule to competition

Order	Title	Description	Type	Coeff ?	Limit ?	Edit ?	Delete
0	MSA Index	MSA Index Only	Calculation			☒	☐
0	P8 Fat Combine	Grading file p8Fat or Exhibitor file p8fat	Calculation			☒	☐
1	P8 Fat Combine Points and Penalties	P8 fat depth points from grade or exhibitor file are assigned to the P8 Points attribute per P8 value and applied to the Market Specifications total.	Lookup			☒	☐
2	EQ Points	EQ Points are calculated based on a formula using the MSA index. The result is assigned to the EQ Points and applied to the Eating Quality total.	Coefficient Calculation	0.625	45.00	☒	☐
5	Rib Fat Points and Penalties	Rib Fat points are assigned to the RF Points attribute (out of a total of 15 points) per Rib Fat value and applied to the Saleyard Meat Yield total	Lookup			☒	☐
6	Meat Colour Points and Penalties	Meat Colour points are assigned to the Meat Colour Points attribute per Meat Colour value and applied to the Market Specifications total.	Lookup			☒	☐
13	EMA points (RIB and HSCW adjusted)	EMA points are calculated based on a formula using the ribbing site rib number of 11, 12, or 13 and the adjusted by the measured EMA and the HSCW. The result is assigned to the EMA points and applied to the Saleyard Meat Yield total.	Coefficient Calculation	1.000	30.00	☒	☐
31	Market Spec Points Total	Calculating the Market Spec total point by adding P8 Points, MC points, Fc Points and Fat Distribution Points, and Rib Fat Points	Total Calculation			☒	☐
34	EQ Points Total	Calculating MSA/EQS total points	Total Calculation			☒	☐
35	LMY Points Total	Assign LMY Points total	Total Calculation			☒	☐
50	Assign total scores	Assign total score	Total Calculation			☒	☐
100	Grand Total Single Animal	Grand Total Single Animal	Total Calculation			☒	☐

Delete this Class

For specific rules (Meat Colour, Rib Fat, P8 fat etc.) you can update the point allocation within the rule by selecting edit.

Once Edit has been selected you will be presented with the below screen which the point allocation can be updated as below.

[Home](#) / [Competition - Matt Best of the Best Carcass Comp](#) / [Class Details Class 1](#) / Class Rules Lookup - P8 Fat Combine Points and Penalties

Class Rules Lookup - P8 Fat Combine Points and Penalties - 89828409-206C-4B33-AB3D-6A8CCDA932D9

Description

P8 fat depth points from grade or exhibitor file are assigned to the P8 Points attribute per P8 value and applied to the Market Specifications total.

Source Attribute(s) code

P8 Fat, P8 Fat Exhibitor

Raw Value

In this instance this is the mm of P8 Fat.

Note: do not edit.

Score

This is the points you want to allocate to a Raw Value

For example, a P8 fat of 3mm you would like to assign a score of 6 points

Disqualification

0 = no disqualification

1= disqualification

Disqualification Reason

Enter a disqualification reason.

e.g. P8 Fat out of range

Update

Update **must** be selected per line.

This encourages users to review changes per line.

P8 Points

Assigned Total

Market Specifications total

	Operator	Raw Value ?	Score (default) ?	Disqualified ?	Disqualified Reason ?	Update ?
1	=	0	0	0 ▼		✎
2	=	1	0	0 ▼		✎
3	=	2	2	0 ▼		✎
4	=	3	6	0 ▼		✎
5	=	4	10	0 ▼		✎

1.4 Duplicating a Class

Duplicating a class can be performed from the Classes page by selecting Classes from the Left-Hand side menu.

Once on the classes page, duplicating a class is as simple as selecting duplicate class on the class in which you would like to duplicate.

MSA Competition System - Test Competition for Competition Admin User

Admin MLA / Sys Admin Logout

Home / Competition - Test Competition for Competition Admin User / Class Details

Class Details

Class	Long Title	Edit ?	Duplicate Class ?
1	Test Class 1 (300-350kg Liveweight)		

Once duplicate has been selected, the system will ask for confirmation as below:

comp.msa-status.com.au says

Are you sure you want to Duplicate this Class?

OK Cancel

A duplicate class will be generated including all rules and point allocation that were in the parent class. The next step is to select edit and update class names and class number.

[Home](#) / [Competition - Test Competition for Competition Admin User](#) / Class Details

Class Details

Class	Long Title	Edit ?	Duplicate Class ?
1	Test Class 1 (300-350kg Liveweight)		
1	DUPLICATED Test Class 1 (300-350kg Liveweight)		

[Home](#) / [Competition - Test Competition for Competition Admin User](#) / Class Details Test Class 1 (300-350kg Liveweight)

Class Details Test Class 1 (300-350kg Liveweight)

Comp GUID: 57F6D0DC-292C-C889-3949-F20615B2F883, Class GUID: CB9A4AE8-FAA8-404B-8611-E8FC75807F43

Class full name (100)

DUPLICATED Test Class 1 (300-350kg Liveweight)

Report Title (100)

Test Class 1 (300-350kg Liveweight)

Short Title (100)

Test Class 1 (300-350kg Liveweight)

Class Description (1000)

Test Class 1 (300-350kg Liveweight)

Update

Class rules, scores and penalties

The Class rules, scores and penalties for this class:

Add a Rule to see this competition: ?

MSA Index - (Calculation)

Add Rule to competition

Once the class name and number have been updated, the next step is to update the class point allocation as per section 1.3 of this work instruction.

1.5 Review & error checking (Lookup Chart)

Once classes have been set up for the competition it is important that you double check the point allocation before running results.

Double check Competition rules and point allocation from the Lookup chart from the left-hand Menu.

This will open in a separate tab & you have the ability to download this as a pdf if scoring needs to be discussed with an organisation or board. Please review this carefully as it will contain the Class definitions & point allocations for each class.

This is most easily completed by accessing the lookup Chart via the Left-hand side menu.

MSA Competition System - Test Competition for Competition Admin User

Admin MLA / Sys Admin Logout

Home / Competition Details - Test Competition for Competition Admin User

Competition Details

Competition full name (250)
Test Competition for Competition Admin User

Short Title (100)
Test Competition for Competition Admin User

Date (yyyy-mm-dd)
2023-12-11

Actual No. of Exhibitors
0

Actual No. of Head
0

Report Title
Test Competition for Competition Admin User

Report Sub Title
Test Competition for Competition Admin User

Exhibitor CSV or manual (?)
CSV upload

Set Saleyard as NO (?)
Leave Saleyard as recorded

Pen or Individual Animal based Comp. (?)
Individual Animal Competition

Weight Points (?)
No

MSA Index (if null show 0)
No

Hide Competition (NOTE: An email request is required for recovery) (?)
Visible

NOTE: When *Weight Points* are set to *Yes* only CSV reporting will be available.

Eating Quality

MSA/EQ Points
0

EQ Points Total
0

MSA Competition System - Rules and Export Report

Test Competition 1

[Download PDF](#) [Attribute Glossary](#)

Meat Colour Points and Penalties																															
Score	1A							1B							1C							2	3	4	5	6	7				
Class 1 - Single Steer or Heifer 300-370kg LW	5							5							5							5	5	4	2	0	0				
Class 2 - Single Steer or Heifer 371-440kg LW	5							5							5							5	5	4	2	0	0				
Class 3 - Single Steer or Heifer 441-510kg LW	5							5							5							5	5	4	2	0	0				
Class 4 - Single Steer or Heifer 511-551+kg LW	5							5							5							5	5	4	2	0	0				
P8 Fat Combine Points and Penalties																															
Score	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Class 1 - Single Steer or Heifer 300-370kg LW	0	0	2	6	10	10	10	10	10	10	10	10	10	8	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Class 2 - Single Steer or Heifer 371-440kg LW	0	0	2	4	6	10	10	10	10	10	10	10	10	10	8	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Class 3 - Single Steer or Heifer 441-510kg LW	0	0	0	2	4	6	10	10	10	10	10	10	10	10	10	10	8	6	4	2	0	0	0	0	0	0	0	0	0	0	0
Class 4 - Single Steer or Heifer 511-551+kg LW	0	0	0	0	0	2	6	10	10	10	10	10	10	10	10	10	10	10	8	6	4	2	0	0	0	0	0	0	0	0	0
Rib Fat 10/11th rib Points and Penalties																															
Score	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25					
Class 1 - Single Steer or Heifer 300-370kg LW	0	0	4	10	10	10	10	10	10	8	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0					
Class 2 - Single Steer or Heifer 371-440kg LW	0	0	2	4	10	10	10	10	10	10	8	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0					
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