

Meat Standards Australia (MSA) Describing beef in consumer terms







Sustainable Beef Quality for Europe workshop Milan, Oct 1st, 2015



Declining Consumption

WHY

- Variable quality
- Impossible to see quality
- Lack of consumer confidence
- Consumer found purchasing meat complex & confusing

ALL BEEF INDUSTRY REVENUE COMES FROM THE CONSUMER

The Consumer:

- Is not going to learn to cook
- Is not going to learn about cuts

To Succeed Beef Must Be:

- Simple to buy
- Pan ready and simple to cook
- Bullet Proof

a contemporary consumer product

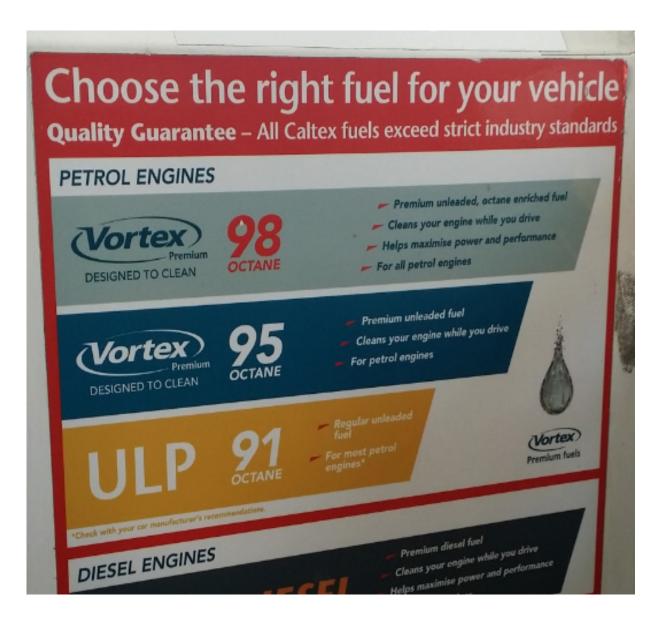
A Vision for Beef

A contemporary consumer product that delivers:

- A clear cooked meal performance promise
- 100% reliable
- Performance levels matched to occasion
- Clear, simple offer requiring no specialist consumer knowledge

This is not delivered by most beef description and grading systems

Simple Concise Consumer Communication









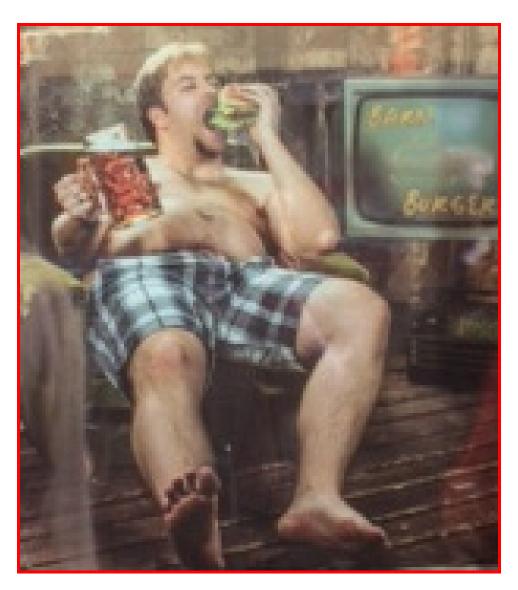
- Define consumer sensory response
 - To date, 80,000 consumers tested
 - Set grades from consumer results
- Test full range of product
 - cattle types, cuts, cooking styles, aging
- Develop a consumer grading model
- Provide simple purchasing information
- Guarantee the result







A powerful research apparatus!







Consumer Testing Protocols - COOKING











Consumer Testing Protocols - SERVING

Latin Square Presentation

Common First Sample

```
      1
      2
      3
      4
      5
      6

      2
      4
      1
      6
      3
      5

      3
      1
      5
      2
      6
      4

      4
      6
      2
      5
      1
      3

      5
      3
      6
      1
      4
      2
```



10 consumers taste every sample

7 samples, 6 diverse products from good to bad

CONSUMER TASTE TESTS - SCORECARD





PRODUCT: Tenderness Very Not Tender Tender Juiciness Very Not Juicy Juicy Liking of flavour Dislike Like Extremely Extremely Overall Liking Dislike Like Extremely Extremely Please tick one of the following to rate the quality of the beef sample you have just eaten Choose one only (you must make a choice).

The MQ4 score = Consumer Satisfaction

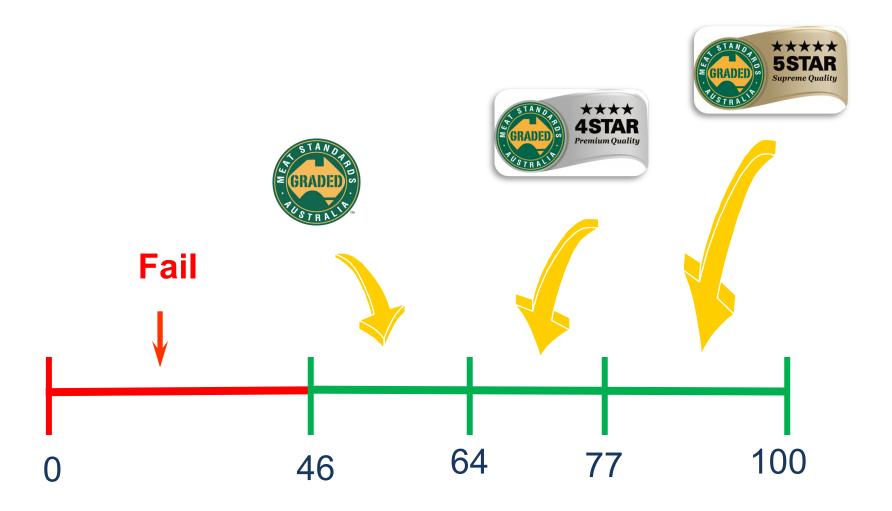
Tenderness

+
Juiciness
+
Like flavour
+
Overall liking

0.3

MQ4 score

CONSUMERS IDENTIFY GRADES



Eating Quality Outcome

People <u>Do</u> Know their Beef when they <u>Eat</u> it



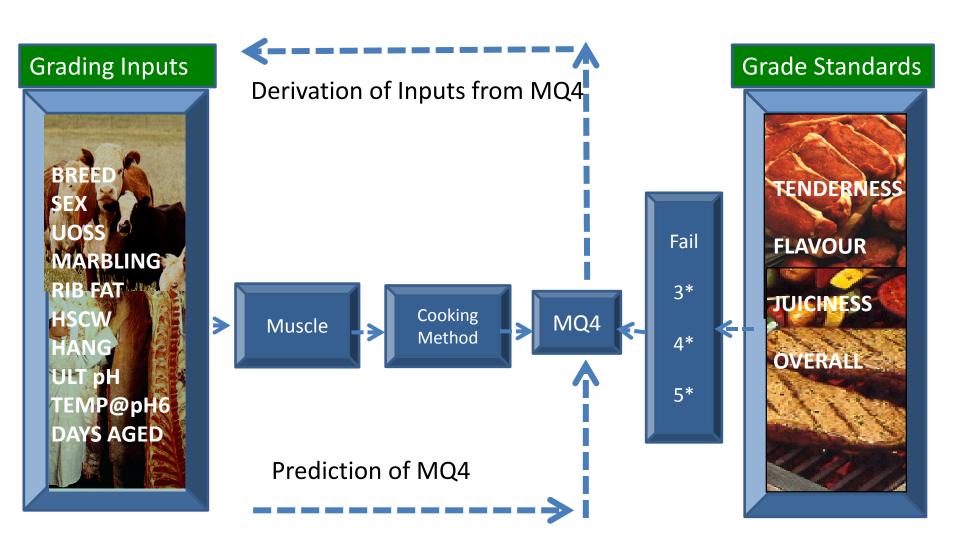
- and no wonder they were confused! -

Premium

Fail

Good everyday quality

Model development process



Collection of Data used for Model Development

















Current MSA consumer grading model

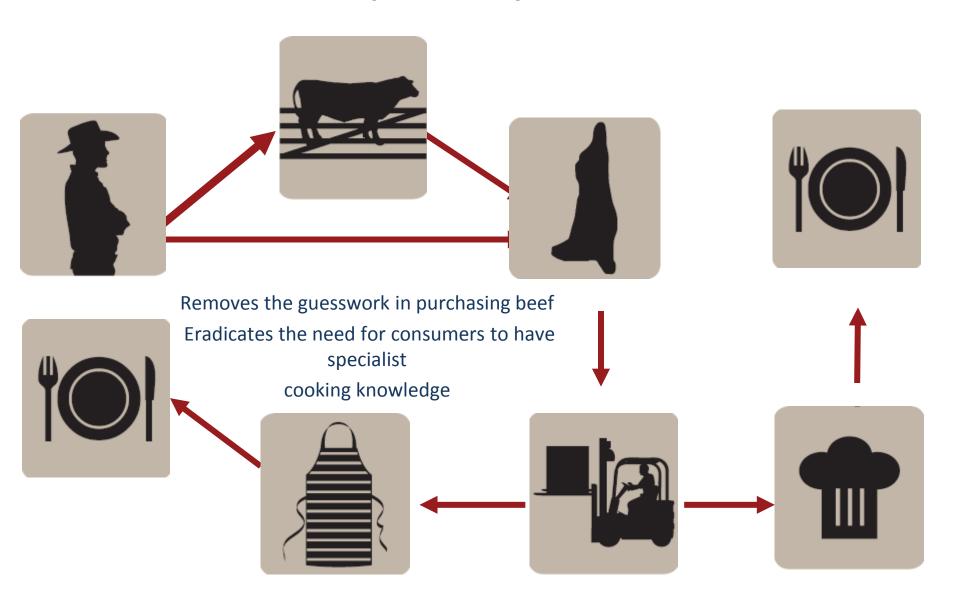
Aged

Description	Format	Name	Input	?	
Estimated % Bos Indicus	% or X if doubt	EPBI	0		
Animal Sex Type	M/F	Sex	m]
Hormone Growth Promotent	Y or ? / N	HGP	n		
MilkFedVealer	Y/N	MFV	n		
SaleYard	Y/N	SIYrd	n		
Rinse/Flush	Y/N	RnFl	n		
Hot Std Carcase Weight	Weight in Kg	HSCW	320		
HangMethod	AT/TS/TL/TC/TX	Hang	TX		
Hump Height	mm	Hump	40		
Ossification USDA	USDA measure	uoss	130		
Marbling USDA	USDA measure	umb	400	?	
RibFat	mm	RbFt	4	?	
Ulitimate pH	5	UpH	5.6		
Loin Temp at Grade	Metered Temp C	Utmp	5		
Days of Ageing from Kill	Days Aged	Age	21		

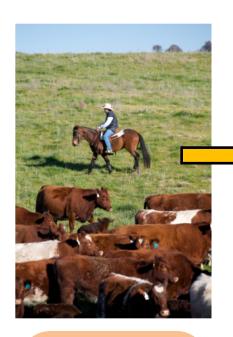
5 Day aged AT hung for Producer MSA INDEX 65.95

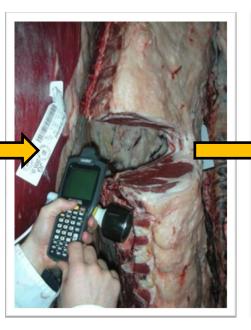
	muscle	GRL	RST	SFR	TSL	YAK	SSB	SC2
<i>s</i> pinalis	SPNo81	84	74	83	79	85		
tenderloin	TDR034	85		79				
tenderloin	TDR062	79	78	81	75	71	67	
tenderloin	TDG062	80						
cube roll	CUB045	73	73	73	73	74		
striploin	STA045	74	75	76	73	76	67	
striploin	STP045	69	69	72	68	70	62	
oyster blade	OYSo36	66	63	69	70	70		
blade	BLD095			46	51			
blade	BLD096	59	63	65	65	67	53	65
chucktender	CTRo85		54	57	62			65
rump	RMP131	63	72	71	74	69	61	67
rump	RMP231	66	75	74	73	77		
rump	RMP005	68	73	76	77	79		
rump	RMP032			75	77			
rump	RMPo87		63	68	68			66
knuckle	KNU066	56	69	64	68	66		57
knuckle	KNU098			64	69			67
knuckle	KNU099	46	57	54	61	57		62
knuckle	KNU100			70	74	72		65
outside flat	OUT005	52	51	55	65	66	52	67
outside flat	OUT029			69	76			70
eye round	EYE075	52	55	53	55	57		56
topside	TOP001	52		63	65	70		62
topside	TOPo33	46		62	68	68		69
	TOPo73	47	55	55	65	65	57	64
chuck	CHKo68			51	56			68
chuck	CHK074	63	60	65	70	62		75
chuck	CHK078	58	61	62	65	61	48	73
chuck	CHKo81			64	67	63		78
chuck	CHK082			55	59			
thin-flank	TFL051			66				66
thin-flank	TFL052			75	67			72
thin-flank	TFL064			69	66			68
rib-blade				53				
	BRI 056			46	60	56		63
	BRI 057			44	51	51		67
	FQshin							68
	HQshin							72
intercostal				60				
	- 0/							

Paddock to plate system



MSA APPLICATION









MSA eligible cattle and sheep are processed at MSA licensed abattoirs

Carcases are graded by an MSA-accredited grader with an eating quality score assigned to each cut.

Cuts with the same eating quality are packed together. Eating quality outcomes specified on the carton label

End users of product have confidence that consumers will be satisfied

MSA PARTICIPANTS

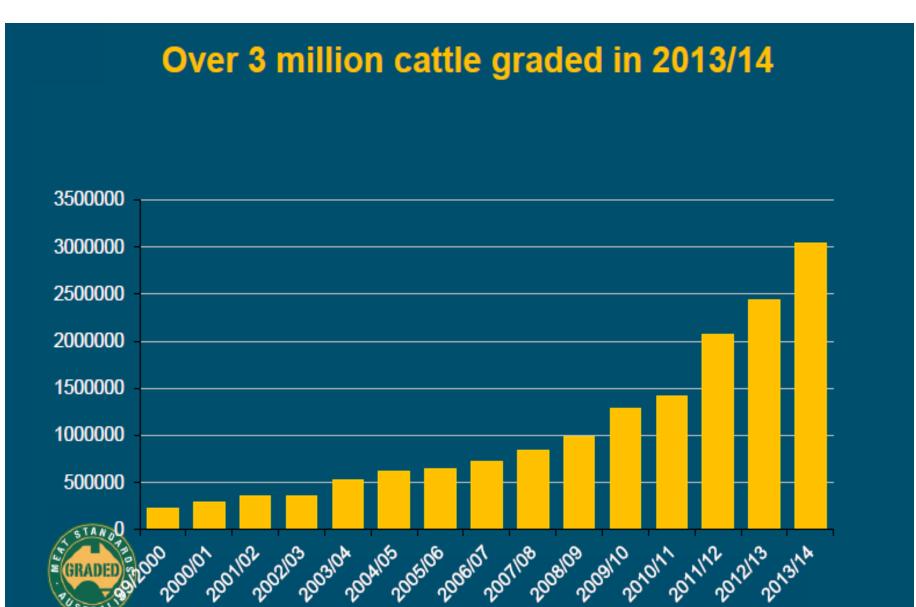




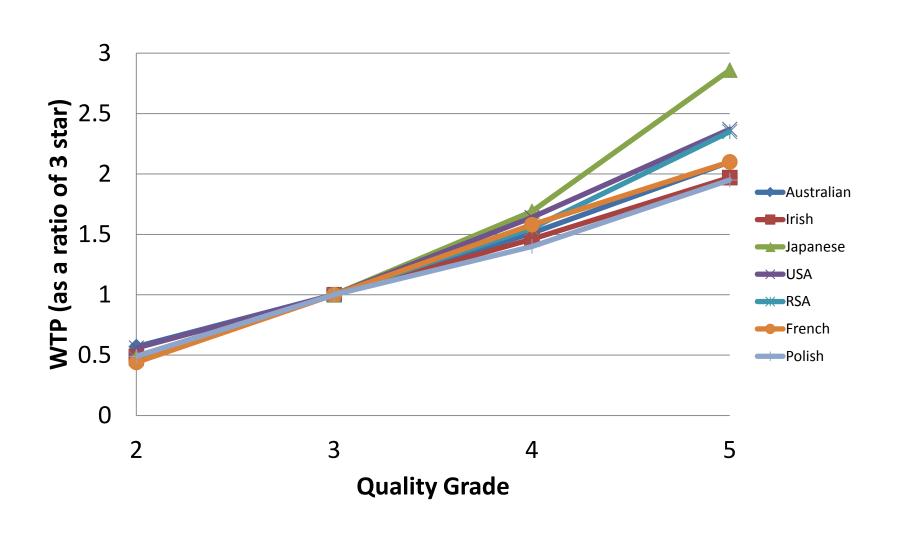


Producers	Processors	Brands
37,600	52	108
Figures as of 30 June 2014		
Figures as of 30 June 2014		

More cattle than ever before



Will consumers pay for quality?





YES!





- The MSA system is voluntary so usage relates directly to commercial value.
- 225,000 carcasses graded in 1999/2000.
- 1,420,000 graded in 2010/11.
- Program value estimated as \$523m to 2010/11
 with annual value of \$77m (Griffith and Thompson, 2012).
- 3,127,000 head graded in 2014/15.
- Annual value now estimated to exceed \$250m/year.
- MSA premium distribution around 40% to farmer.