Beef eating quality in Europe







Outline

Data and consumer testing

Eating Quality: a threshold approach?

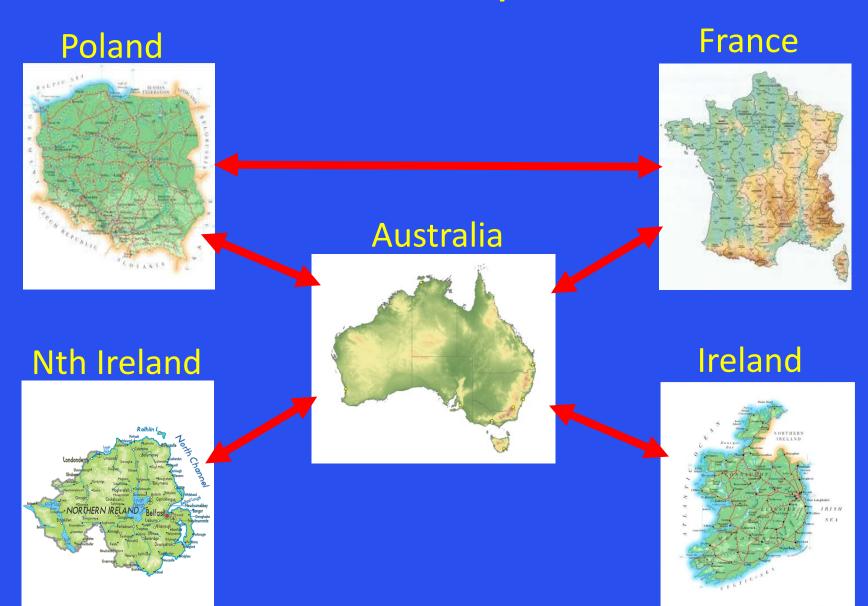
Other considerations

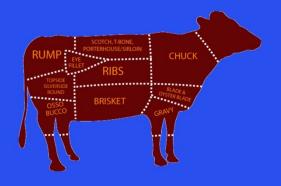
Eating Quality: European beef is variable





Collaborative partners





774 carcasses

• 5 countries

• Marbling: 100 -> 820



Carcass wt: 168 kg -> 531 kg

• Beef, Dairy and Crosses



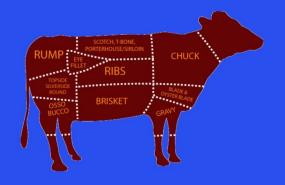
- Achilles or Tender stretch
- 4 cooking methods











774 carcasses

5 countries

Marbling: 100 -> 820

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Beef, Dairy and Crosses

- Achilles or Tender stretch
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Age: 7 months -> 17 years



Bulls, Females, Steers



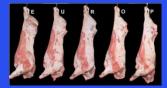
Ultimate pH: 5.6 -> 7.2



Aged from 5-35 days

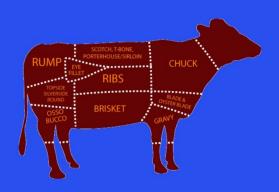


Conformation E -> P



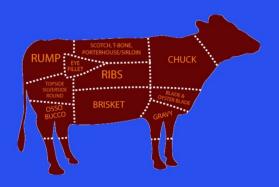
Fat 1 -> 5





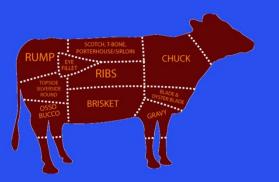
774 Carcasses

18 Muscles



774 Carcasses

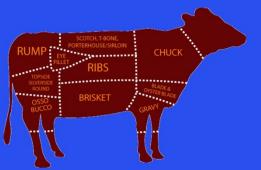
18 Muscles



X 10 samples

774 Carcasses

18 Muscles



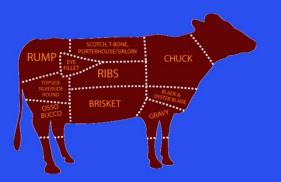
X 10 samples

774 Carcasses



15,614 Consumers

18 Muscles



X 10 samples

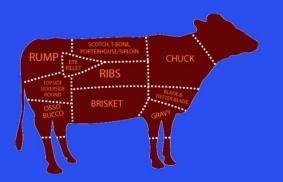
Untrained



774 Carcasses

15,614 Consumers

18 Muscles



X 10 samples

Untrained



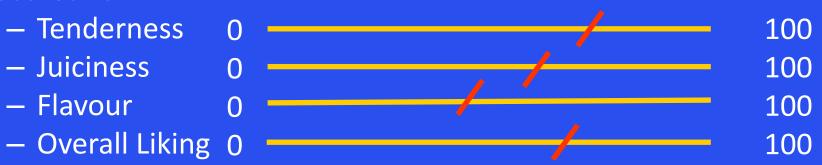
774 Carcasses

15,614 Consumers

X 6 Samples



Scored for



Scores then weighted and combined into a single MQ4 value



The Meat Standards Australia System

Consumers also class meat as:



Unsatisfactory

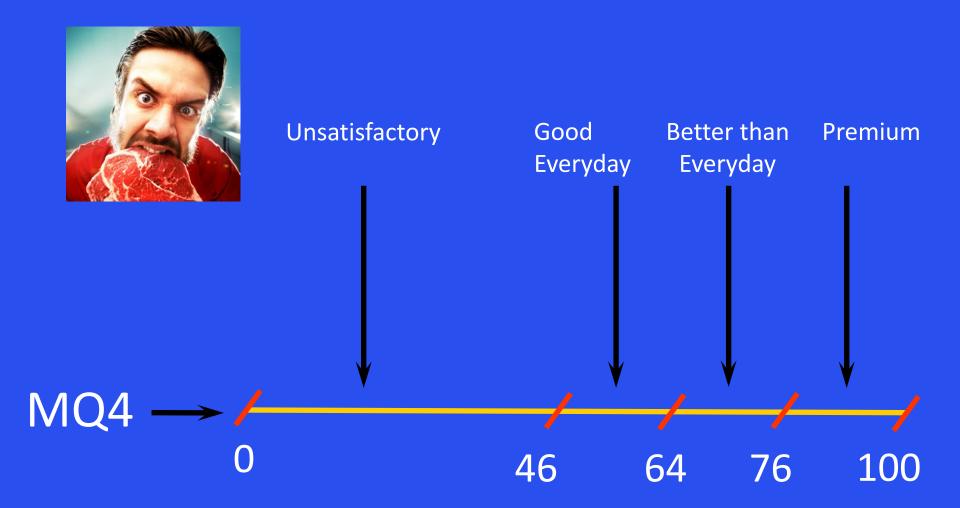
Good Everyday Better than Everyday

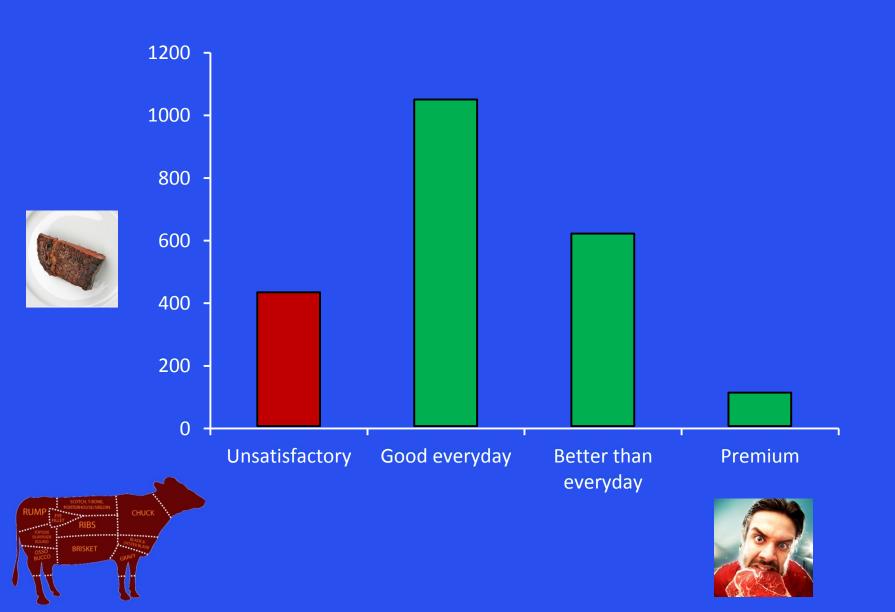
Premium

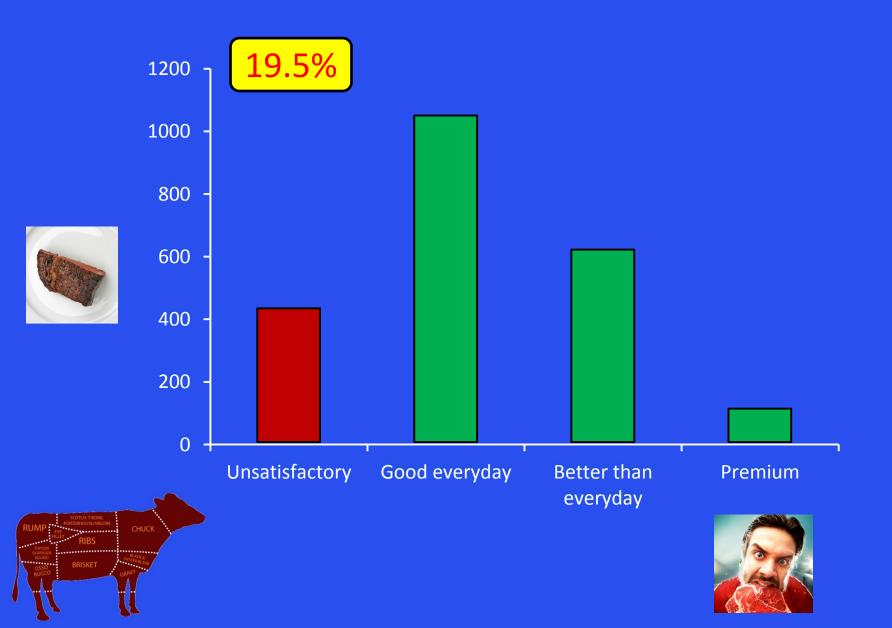
MQ4 →

The Meat Standards Australia System

Consumers also class meat as:





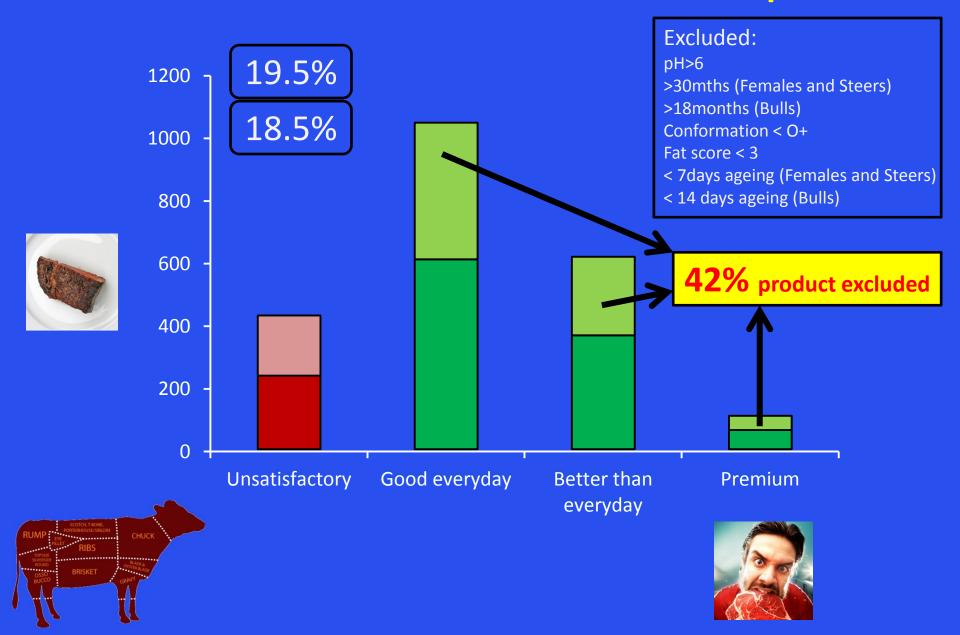












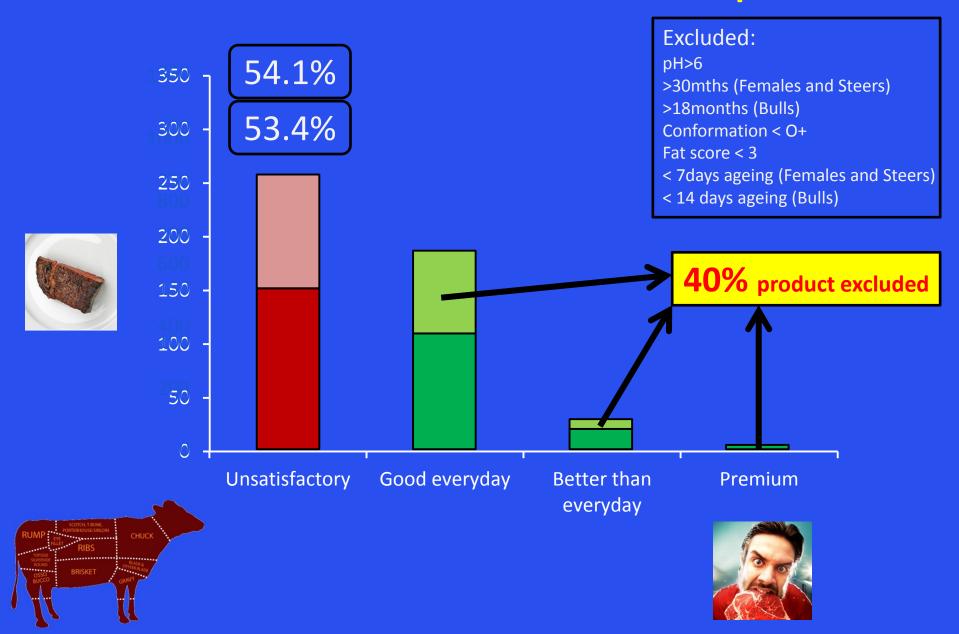
Consumer scores: Grilled Rump



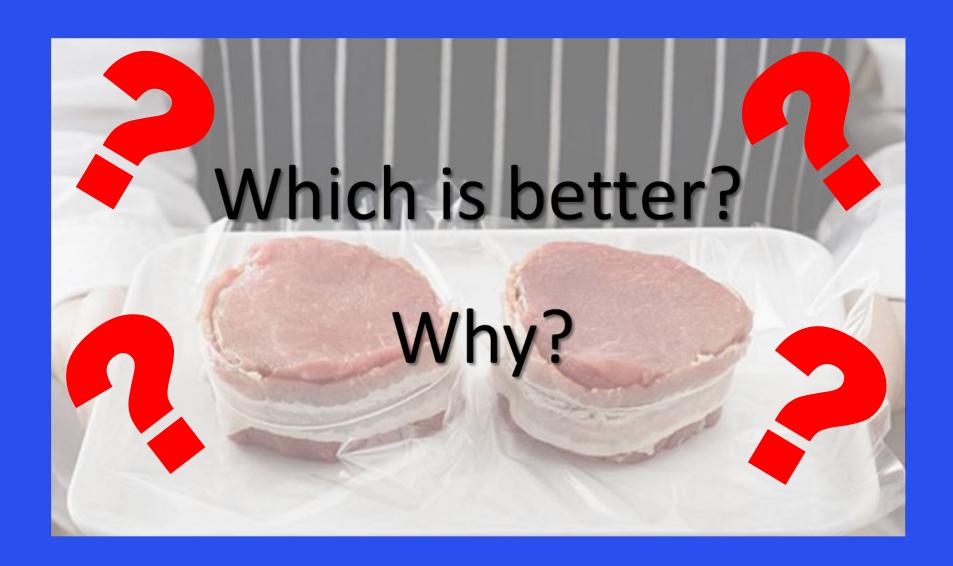
Consumer scores: Roast Rump

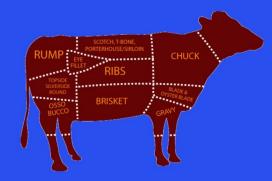


Consumer scores: Roast Topside









- 5 countries
- Marbling: 100 -> 820
- Carcass wt: 168 kg -> 531 kg
- Beef, Dairy and Crosses
- **Achilles or Tender stretch**
- 4 cooking methods



















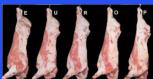














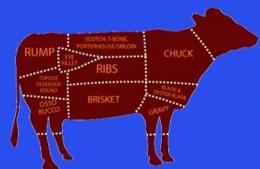












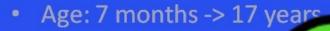
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Bulls, Females, Ster



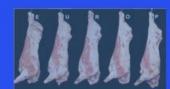
Aged from





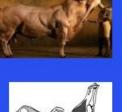




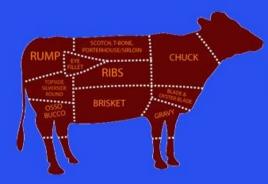










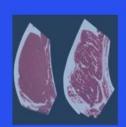


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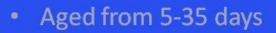




Bulls, Females, Steers



Ultimate pH: 5.6 -> 7.2

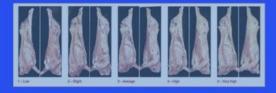




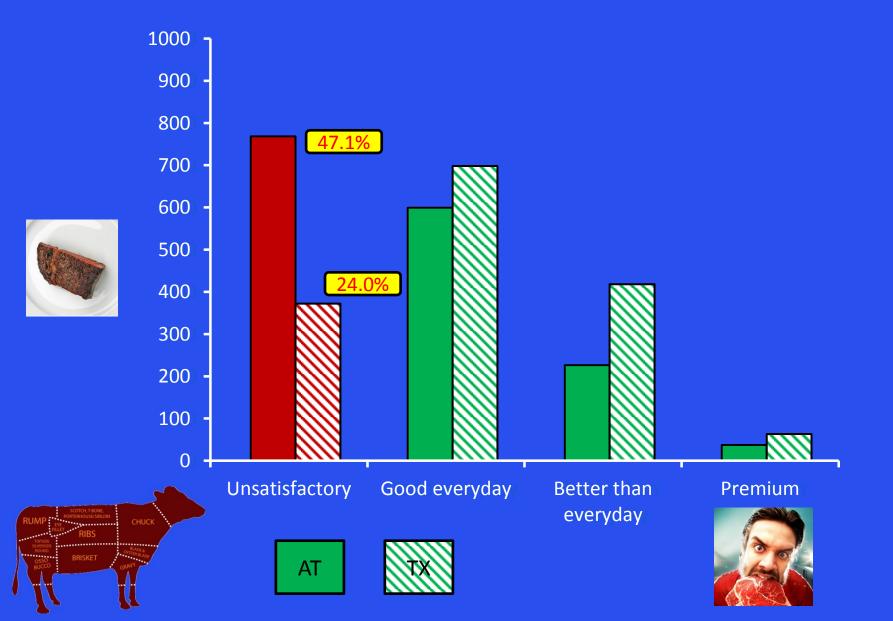
Conformation E -> P

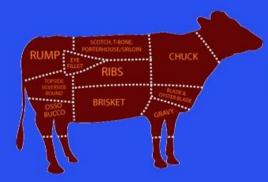


Fat 1 -> 5



Consumer scores: Hang method



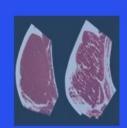


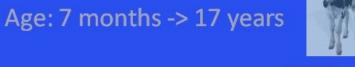
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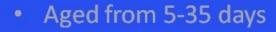




Bulls, Females, Steers



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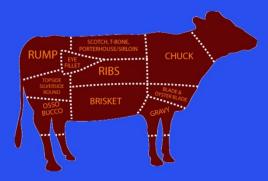


Conformation E -> P



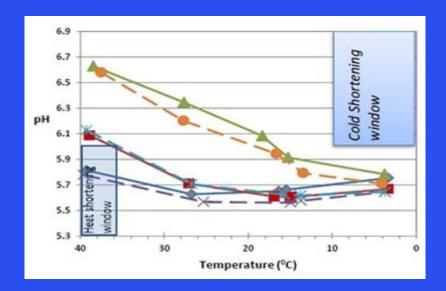
Fat 1 -> 5





Not in this dataset

- Growth-Rate
- Pre-Slaughter management (Ultimate pH?)
- pH decline (cold & heat shortening)







Which is better?

The consumer has no idea!

Grilled Striploin:

19% "unsatisfactory"

Grilled Rump:

25% "unsatisfactory"

Roast Topside:

54% "unsatisfactory"

Roast Rump:

17% "unsatisfactory"

Contributors



















