



# Cost Benefit of Dry Ageing

Long Huynh



# Outline

1. Equilibrium model
2. Factor 1 – Market
3. Factor 2 – Equipment
4. Factor 3 – Product ageing
5. Factor 4 – Regulations
6. So is it worth it?



\*Photo by Tim Burvill

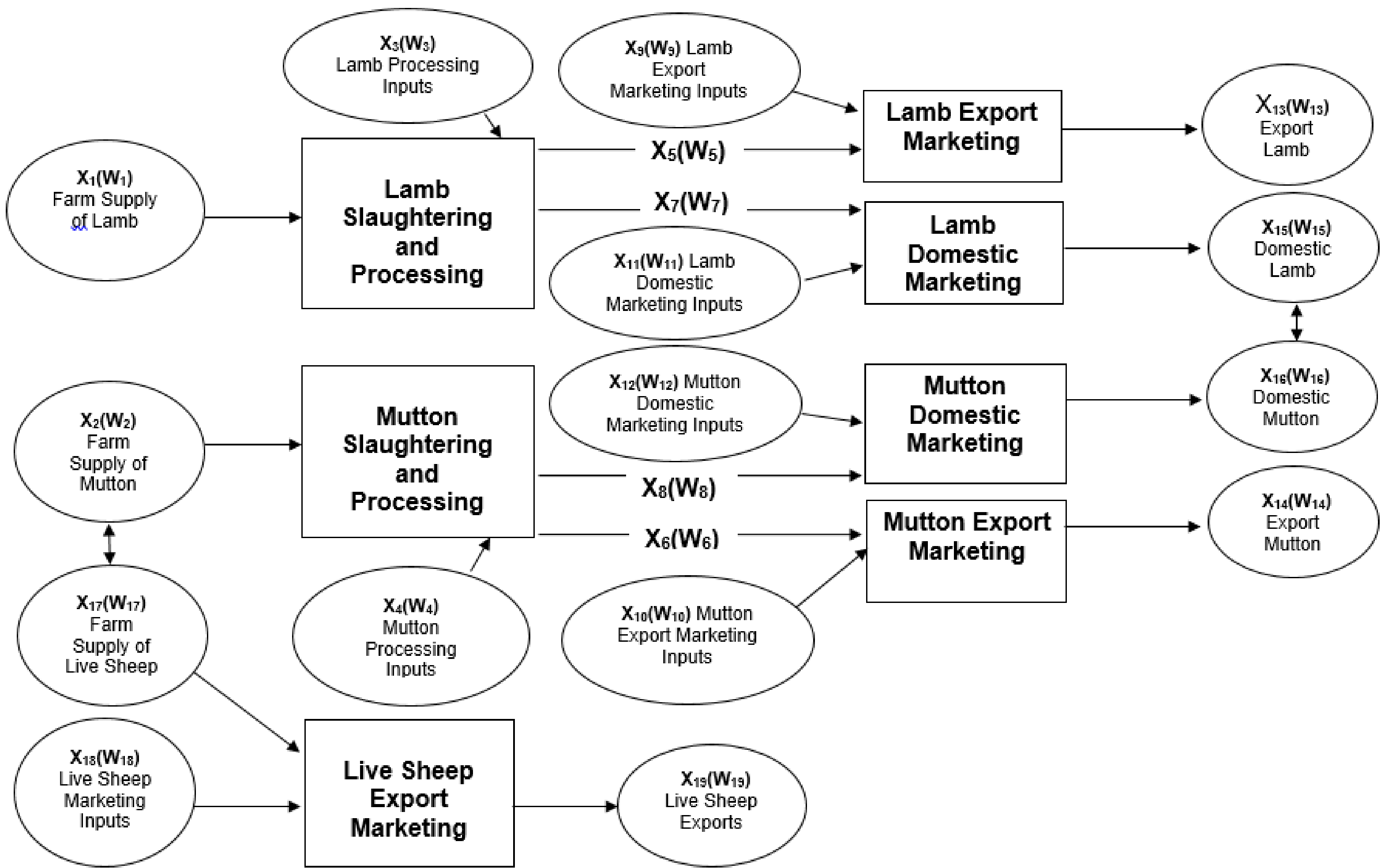


# An Equilibrium Displacement Model for DA

A New Sheep Meat EDM

Mounter et al.

Figure 1. Structure of the Australian sheep meat equilibrium displacement model

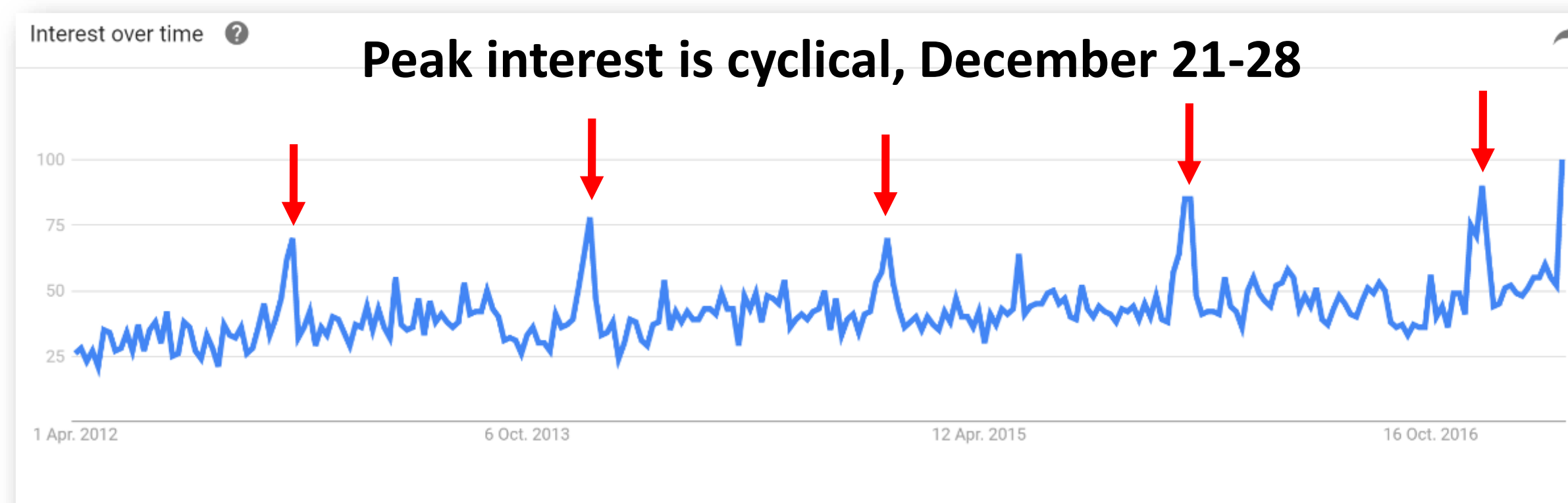
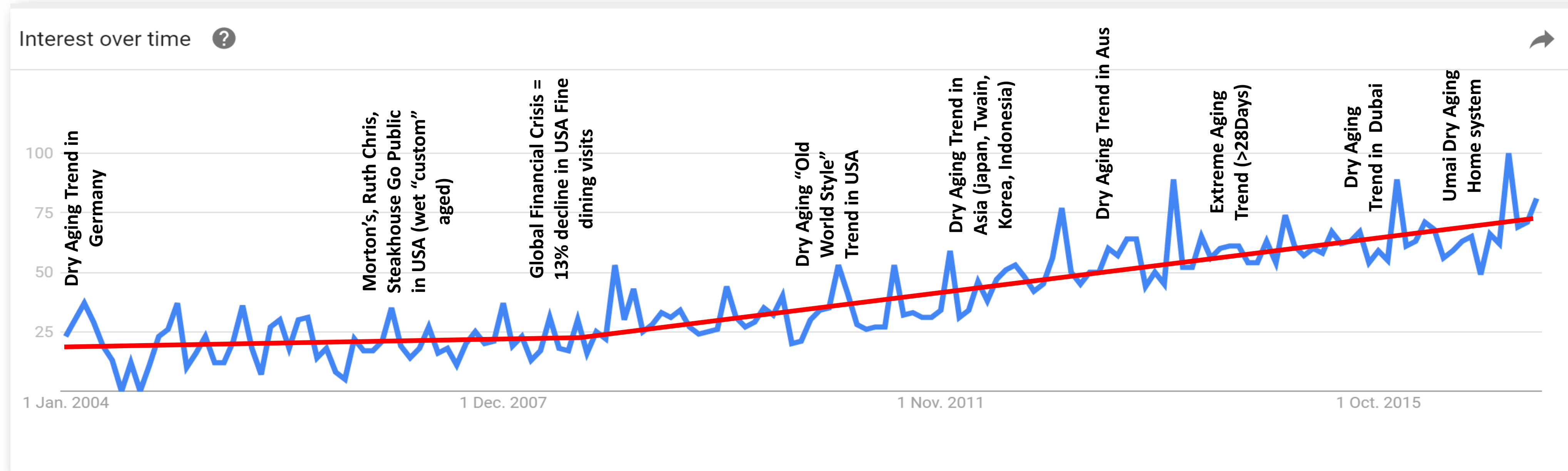


An economist view on  
benefits of DA product



# Factor 1 – Market and consistency

Increasing interest in Dry Aged product since 2004



The market will be the determining factor on the product success



# Factor 2 – Equipment



**>\$300,000/setup**



# Factor 2 – Equipment

Dry ager

Maturemeat

Dry Aging Bag



\$20,000 – 50,000/Cabinet

\$3/Bag



# Factor 2 – Equipment

<\$50/set up

Its cheap, But don't do it!!!



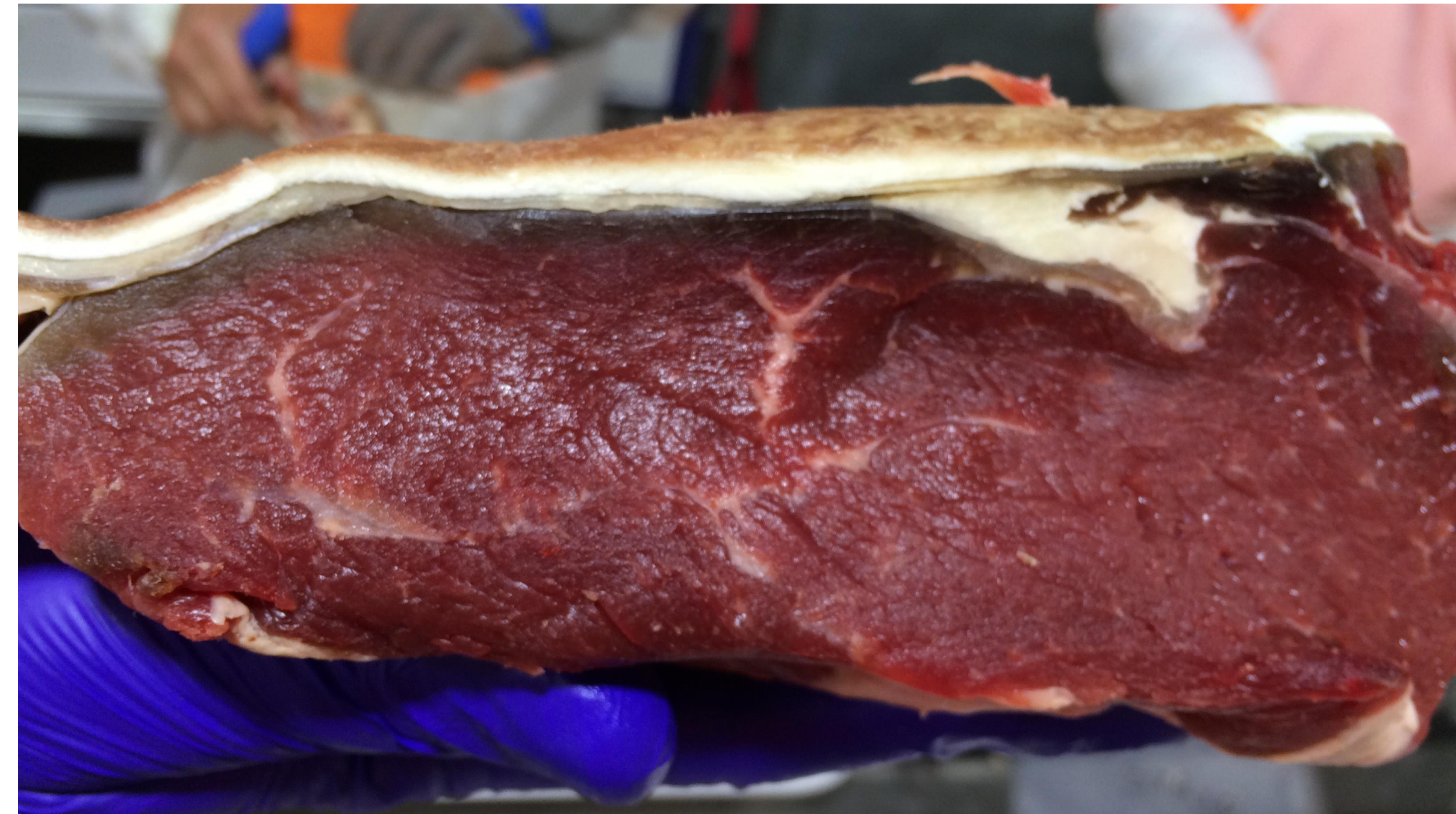


# Factor 3. Product Ageing – Raw material

**Fat**

**VS**

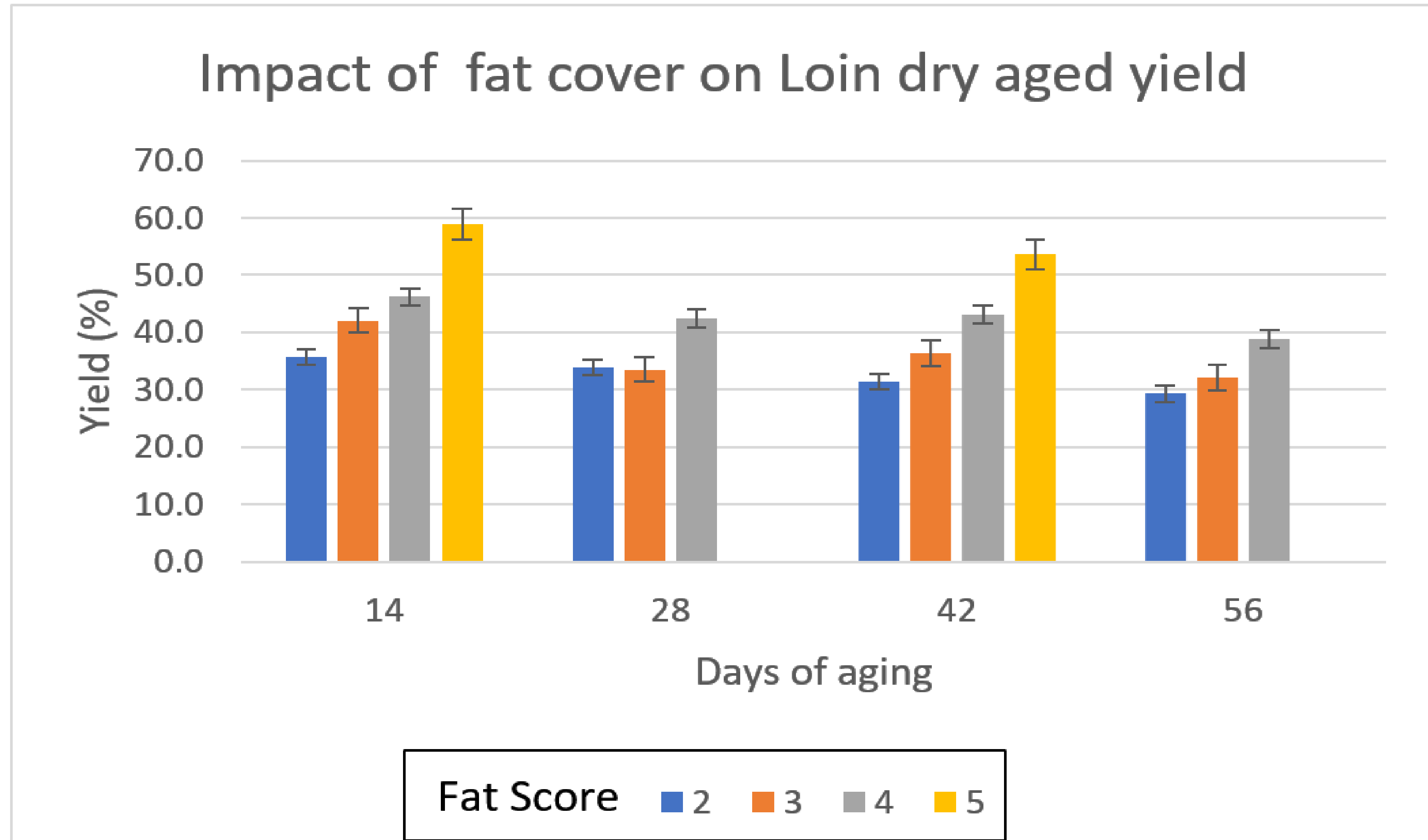
**Not much**



Dry ageing is not a magic process, it needs quality product

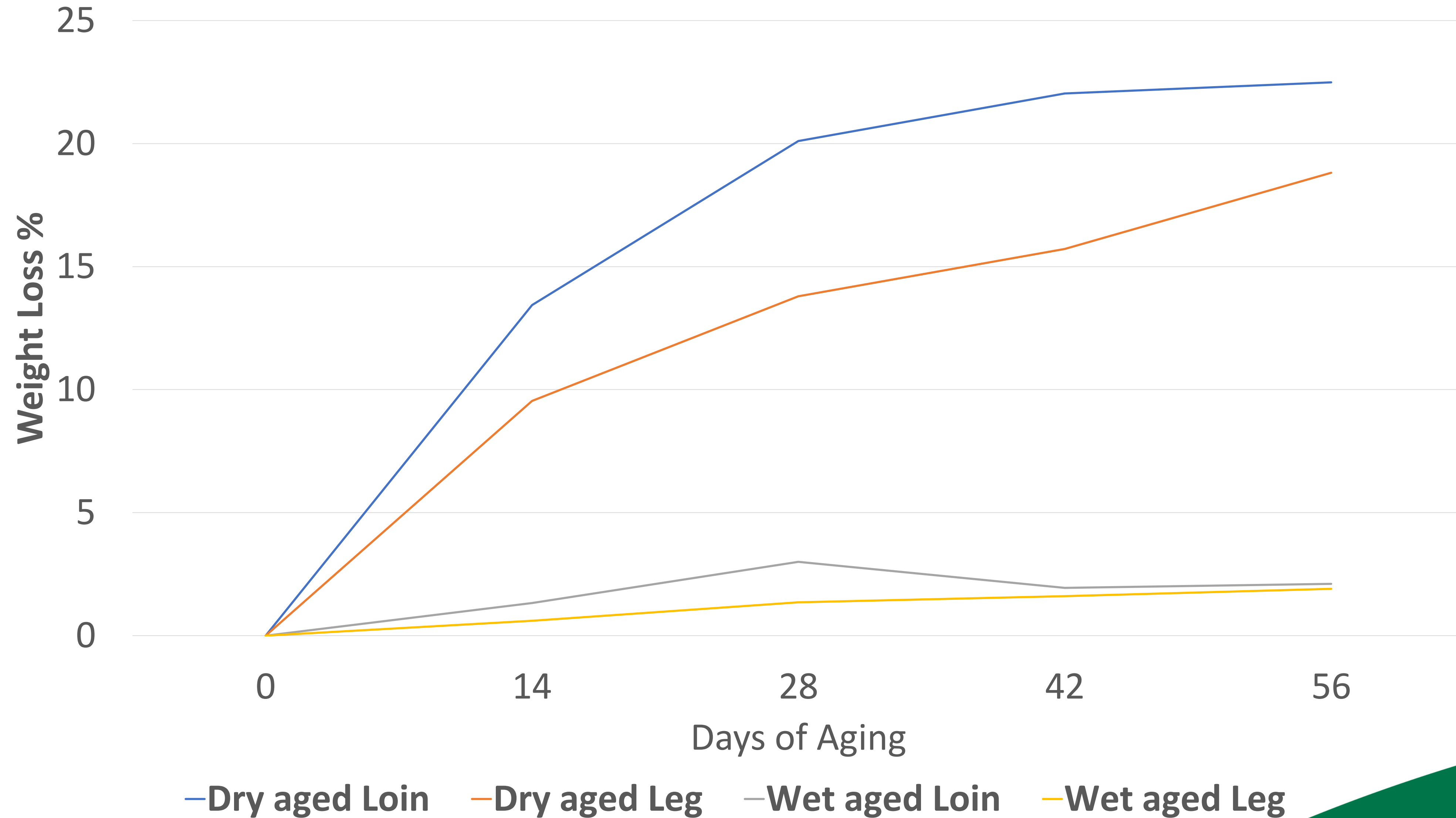


# Factor 3. Product Ageing – Yield





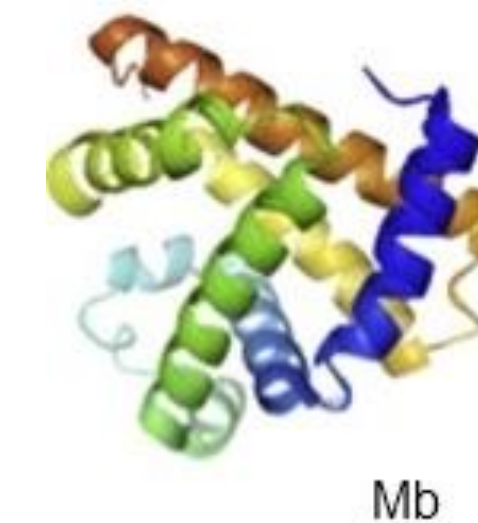
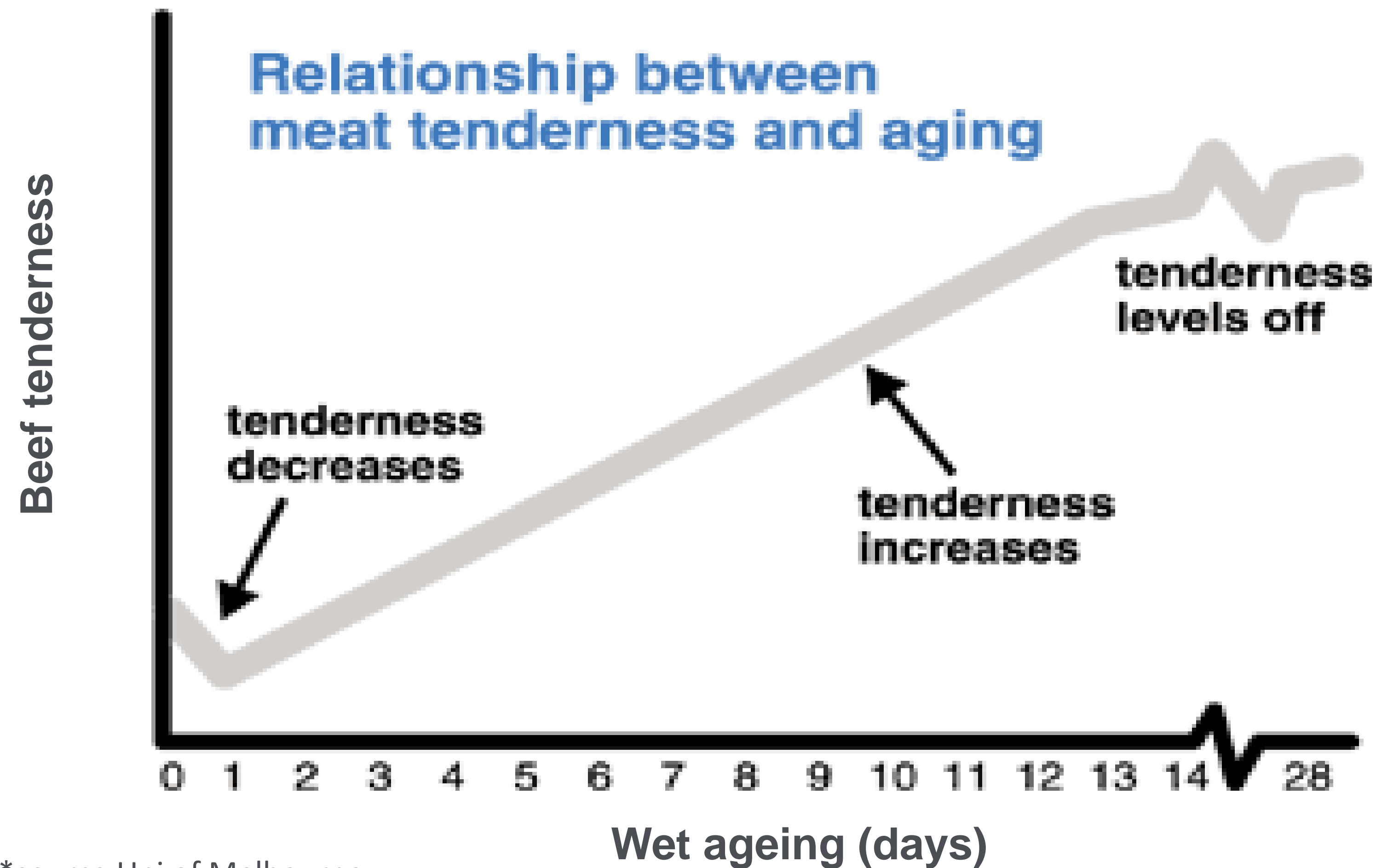
# Factor 3. Product Ageing – Yield





# Factor 3. Product Ageing - tenderness

After 14 days ageing, small incremental increase in tenderness

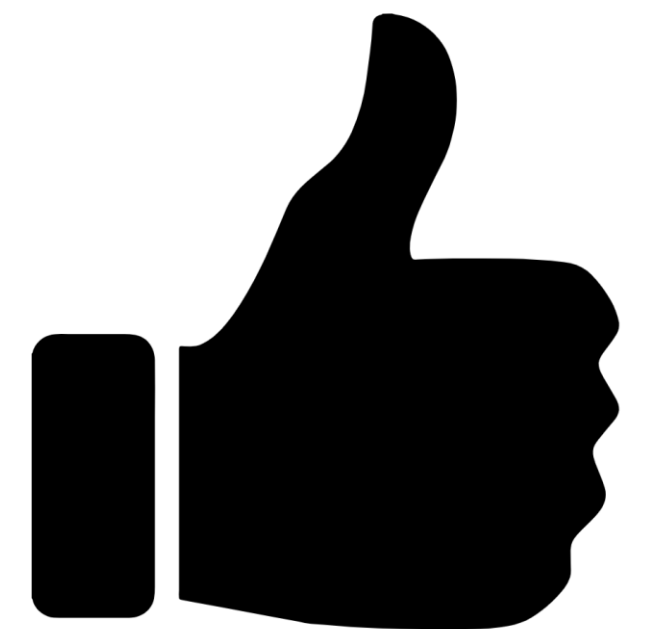
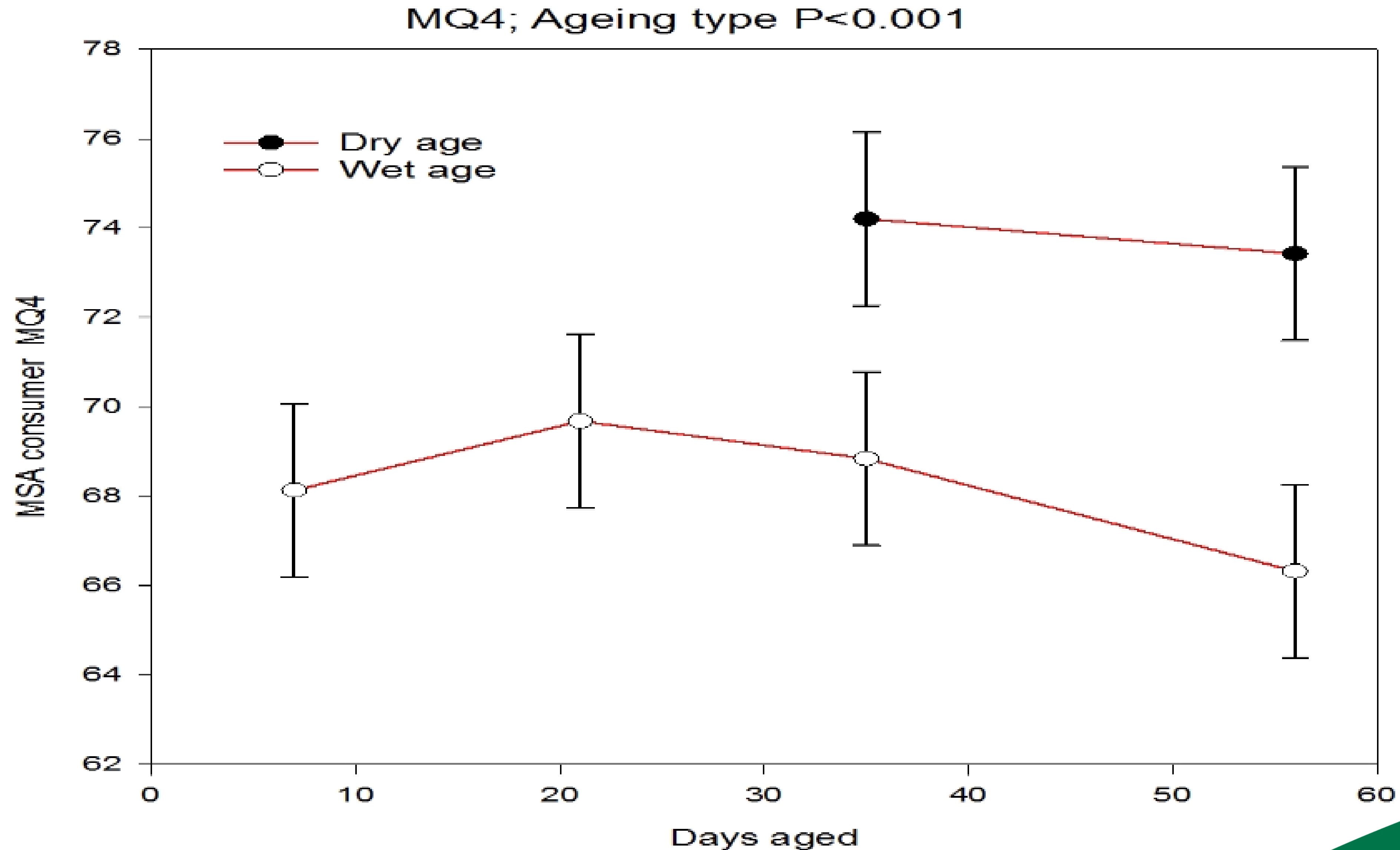


Pleasant 'taste and aroma' compounds





# Factor 3. Product Ageing – Liking





# Factor 4. Regulation

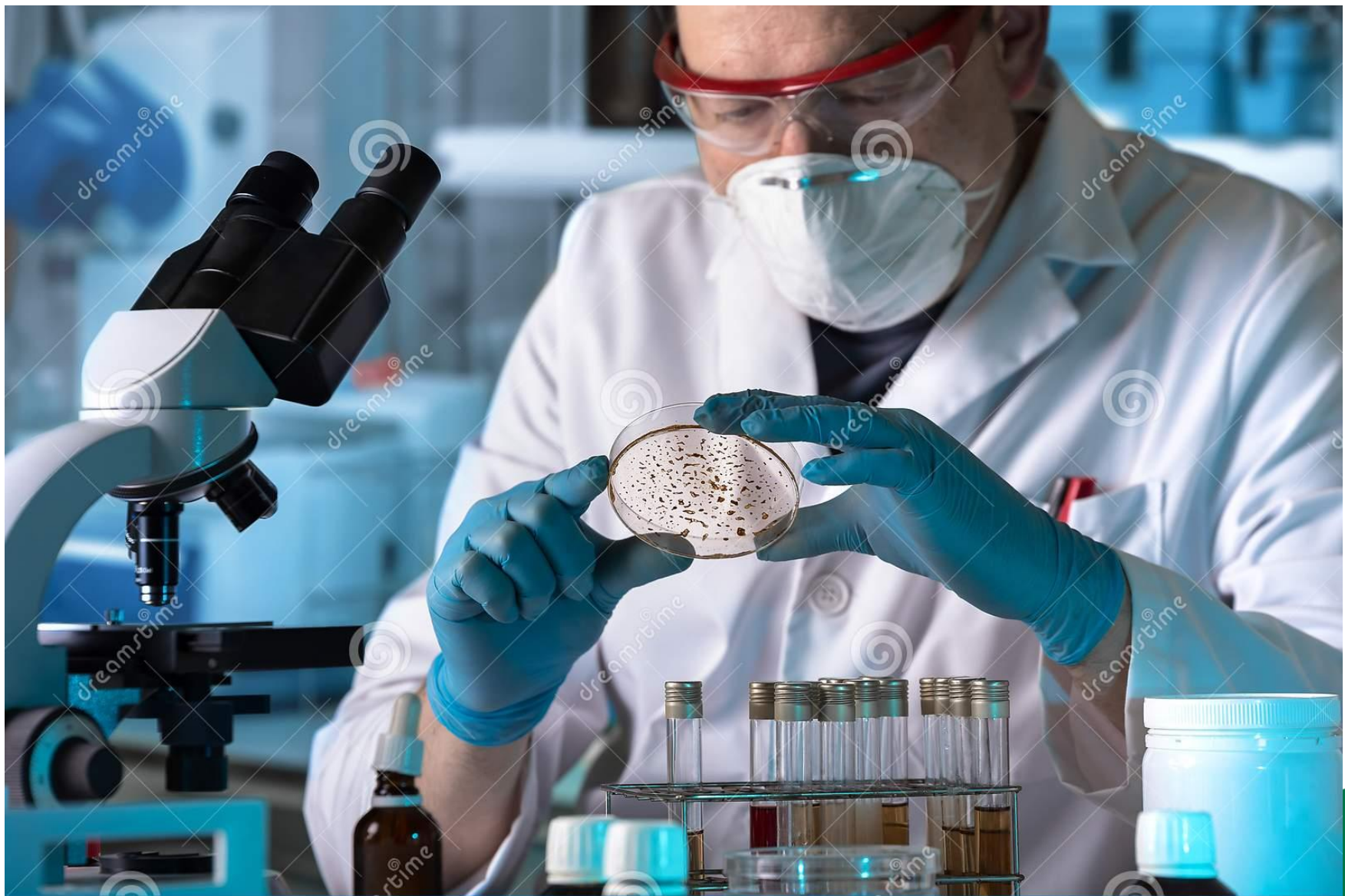
## 1. Further Meat Processing Facility fees and charges

Annual Throughput	Application Fee (\$)	Annual Fee (\$)
Up to 250 tonnes	341	682
251 to 500 tonnes	394	788
501 to 2,500 tonnes	791	1,582
2,501 to 5,000 tonnes	1,188	2,376
Over 5,000 tonnes	1,445	2,889



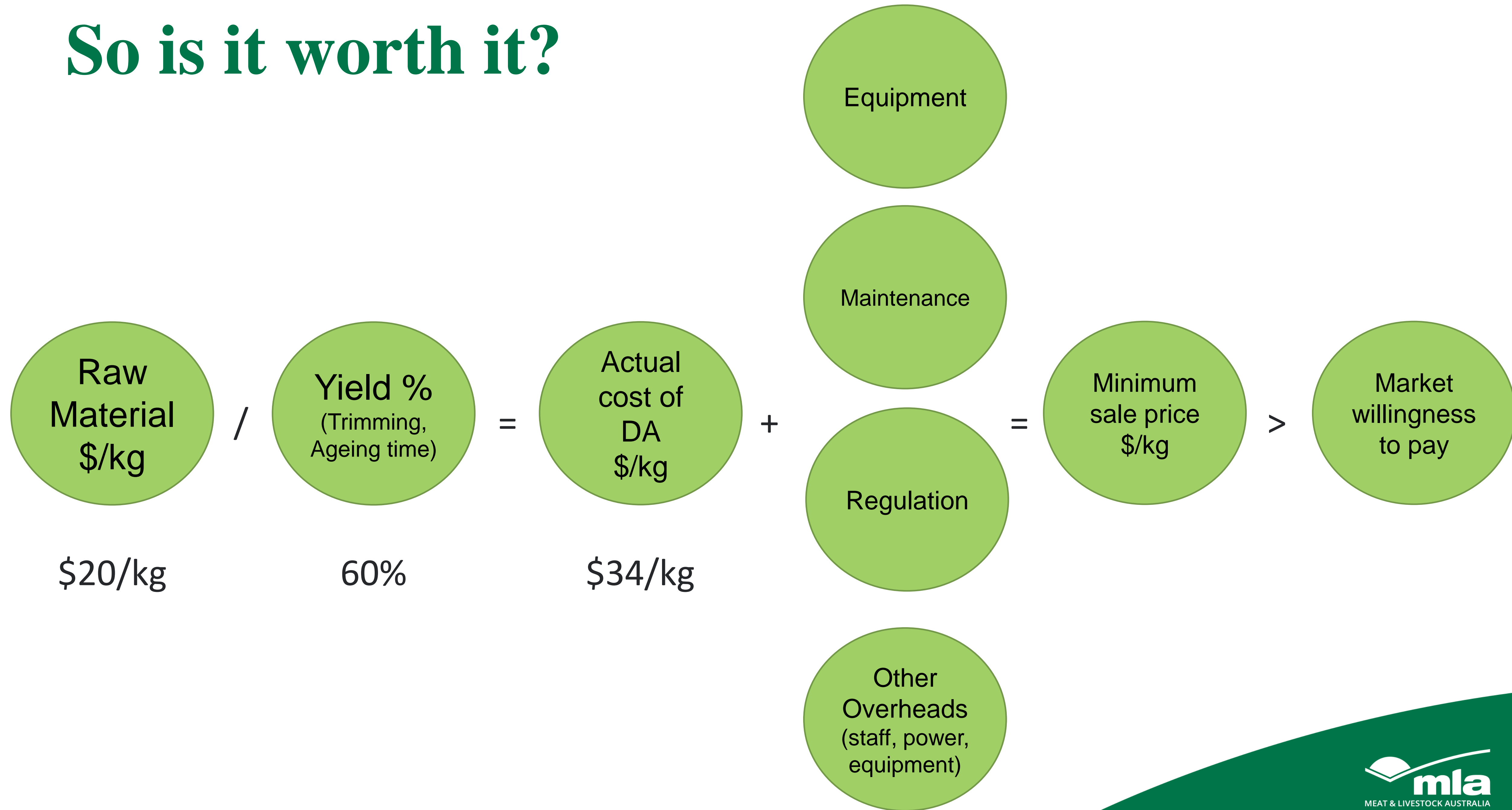
2. Third party auditors - \$800 x 4

3. Product testing, environmental testing  
\$30/test x 3/product type/yr





# So is it worth it?





# Contact

**For further information, please contact:**

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# Guide to dry ageing

CSIRO cite a range of parameters which have been adopted by all subsequent programs and guidelines.

## Recommend settings:

- Temperature ( $\sim 0^{\circ}\text{C}$ )
- Air speed (0.2 – 0.5 m/s)
- Relative humidity (75 – 85%)
- Time (recommend  $> 21$  Days)

