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# Performance Data & Genetics Updates

Dr. David Caverio Pintado

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# Quo vadis?



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# Look back (15 years in the company)



**Take a look back – Changes are obvious!**

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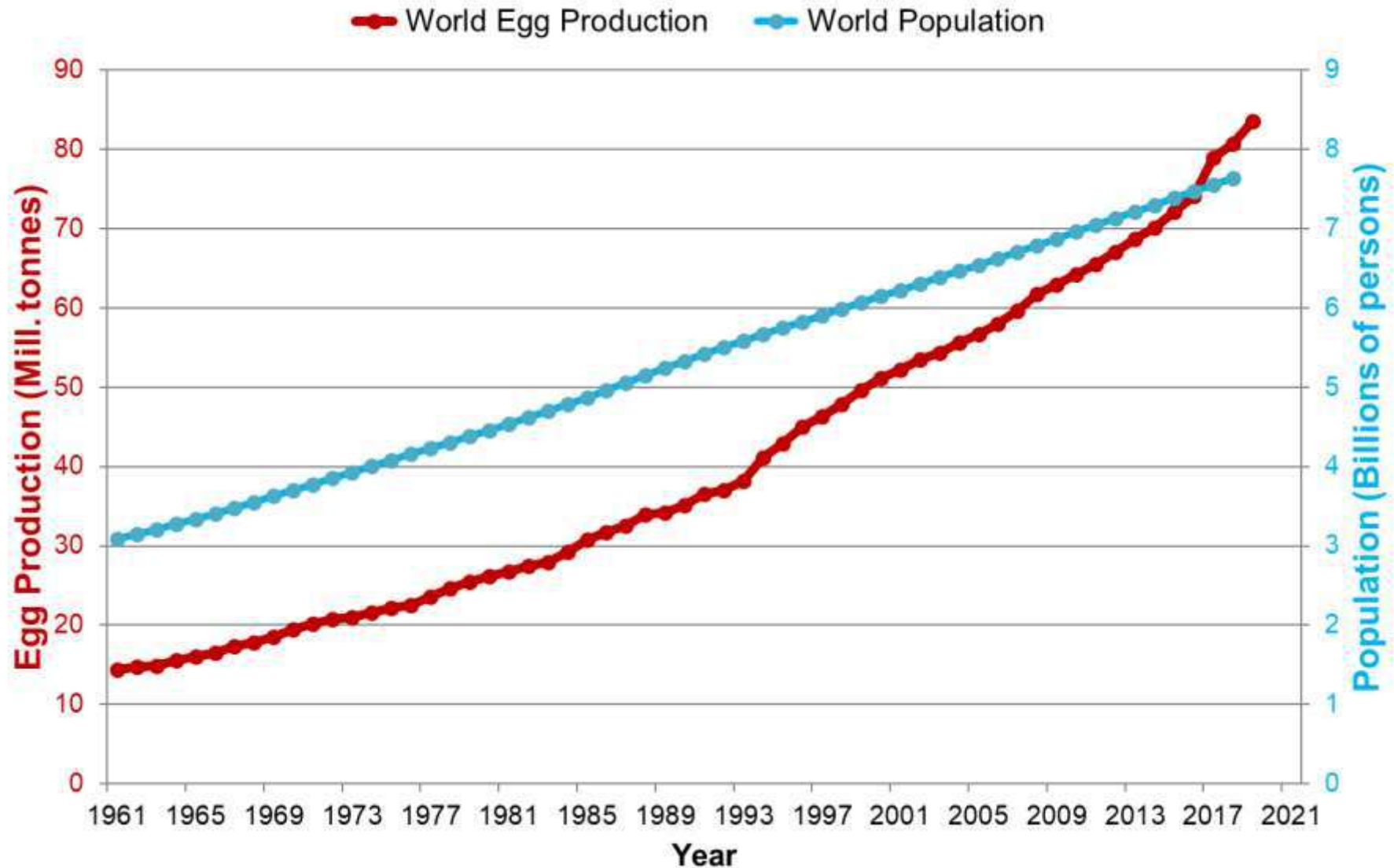
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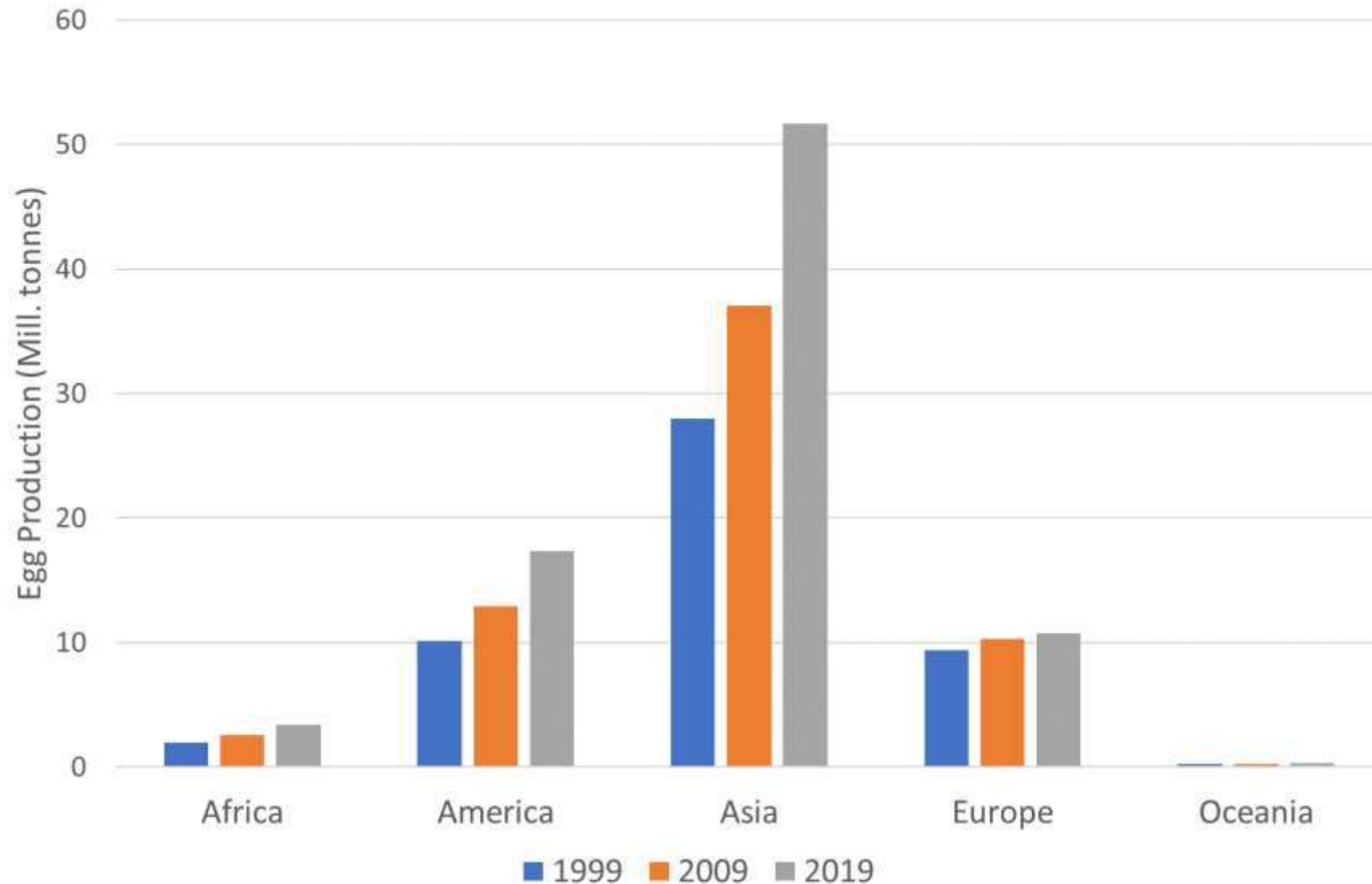
# World Egg Production



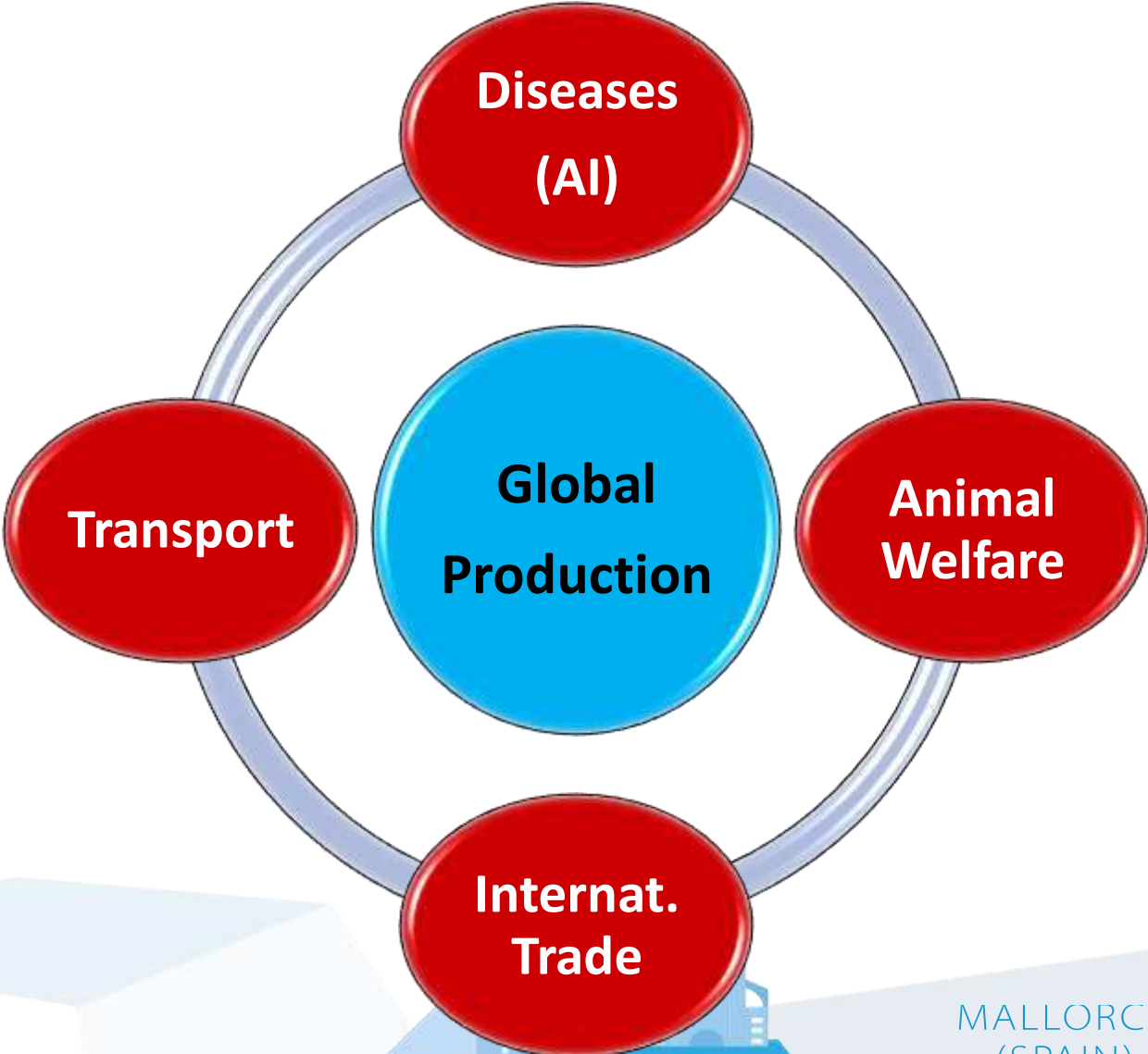
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# World Egg Production



# Threats



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# World Production



We manage 26 farms with 88 houses , 5 hatcheries + custom hatches



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# More Testing Capacity (2019 Perthshire)



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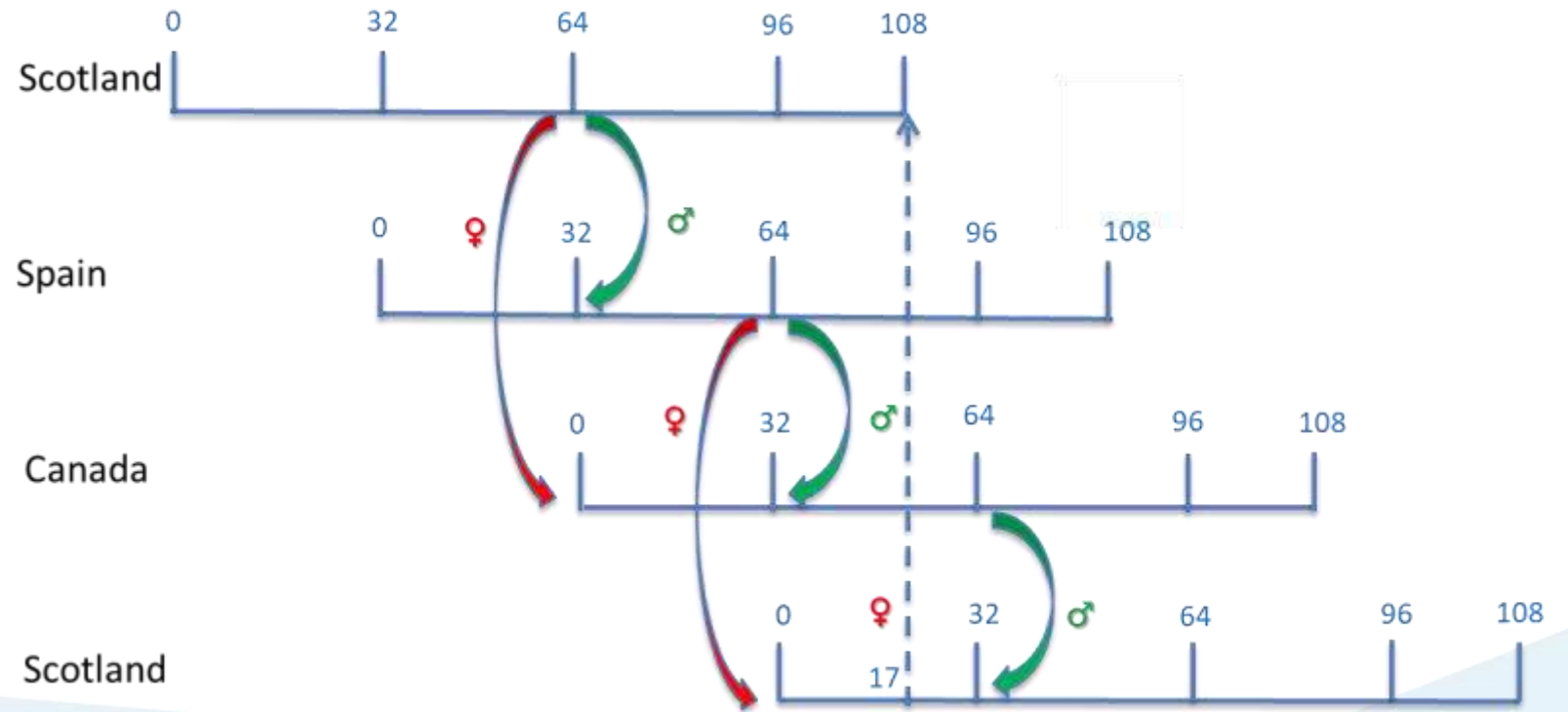




# Genomic Selection => More Genetic Progress



DNA Analysis



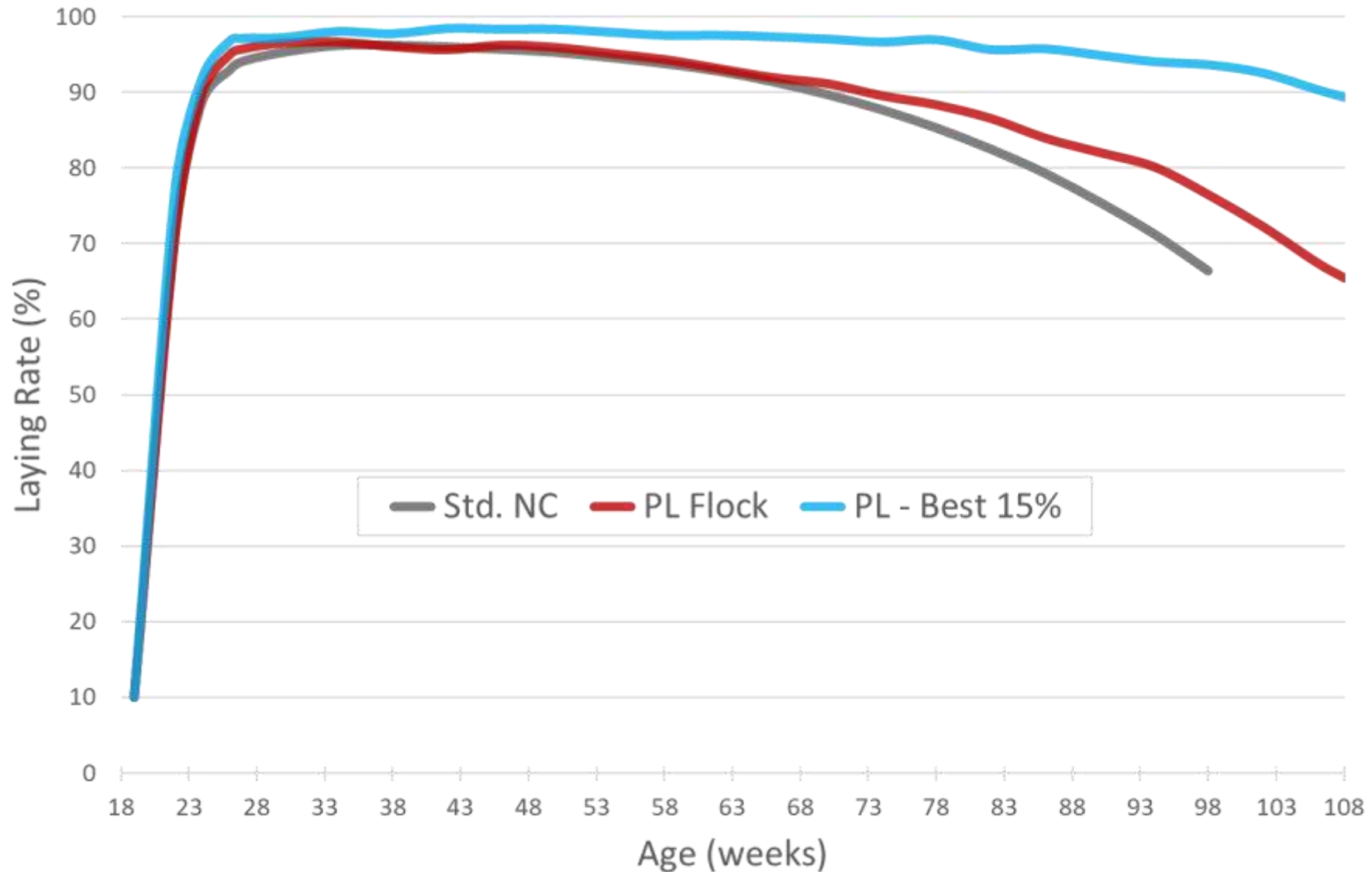
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# Laying Performance - Persistency



# Floor System (Farm Wannhöden)



Testing capacity in automatic trap nest was duplicated

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# Use of Challenge Feed



**Breeding Farm:**  
separate silos for group cages

**Field Test:**  
Use of two different feeds

*Lower E, Vit., CP, aa*



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# Performance Evolution in Management Guides

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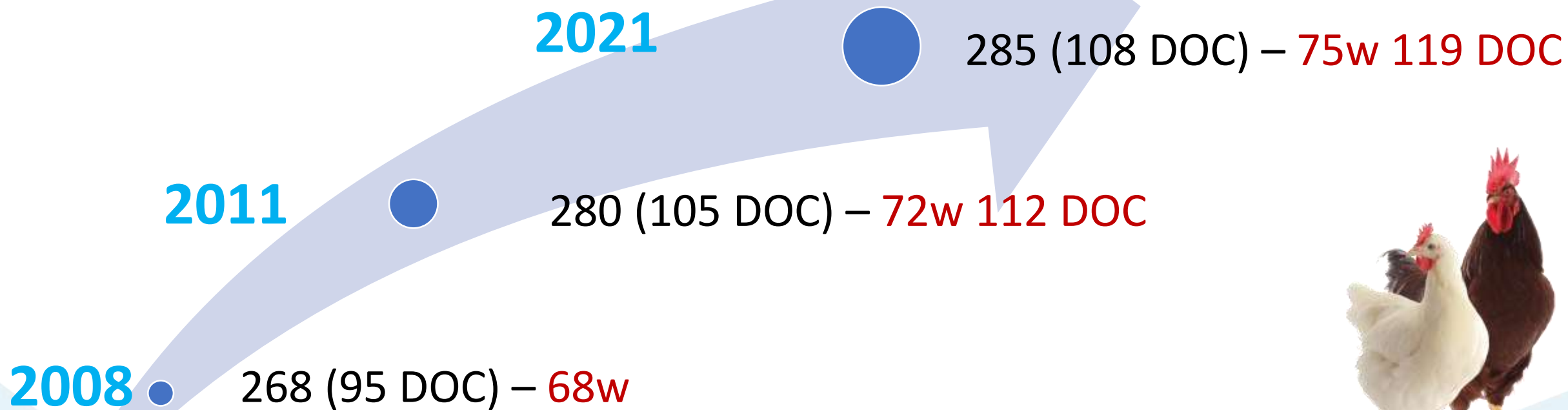
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# Parent Stock MG (68w)



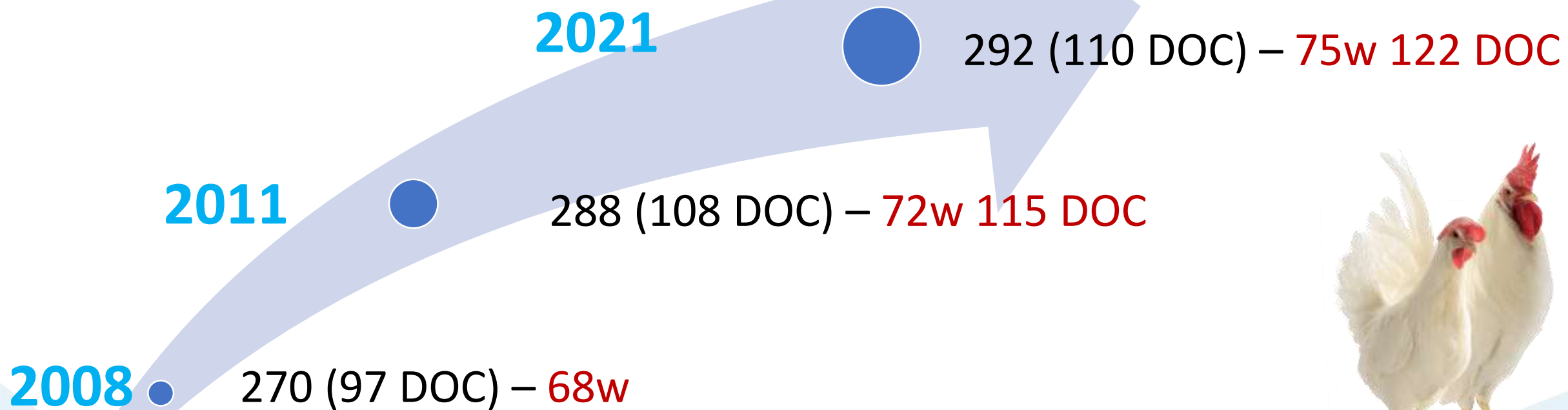
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# Parent Stock MG (68w)



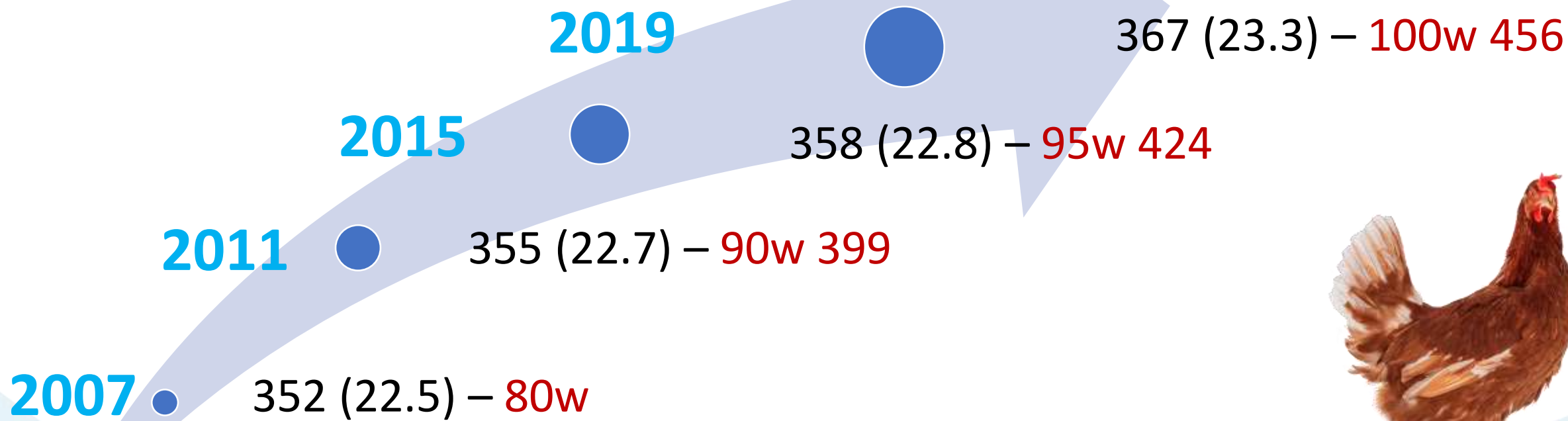
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# Management Guides (80w)



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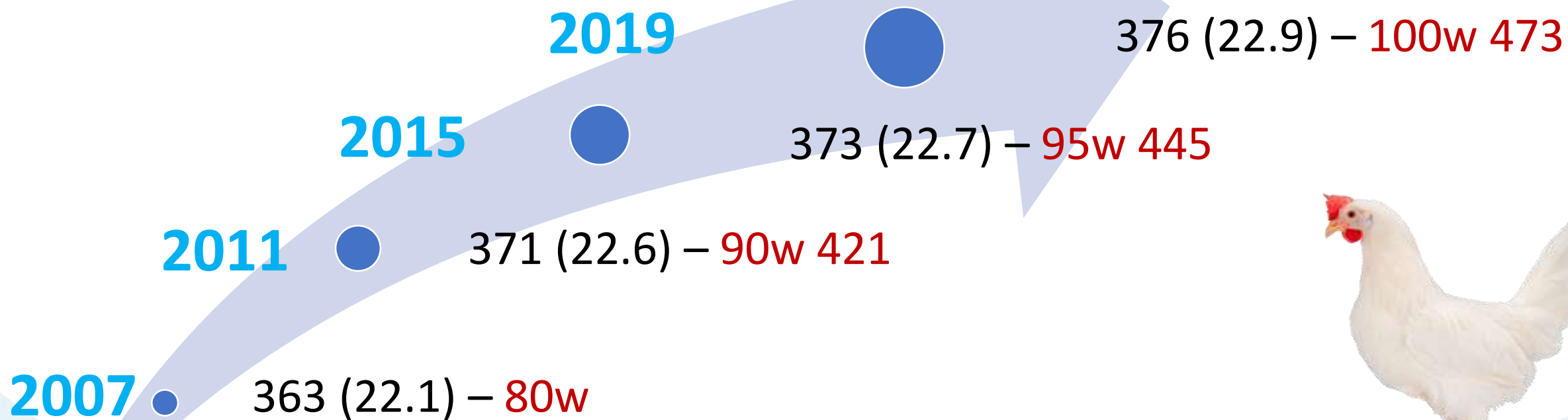
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# Management Guides (80w)



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# Better Efficiency

- Same Feed Consumption & more Egg Mass



## NC (105g/d: 44.1 kg until 80w)

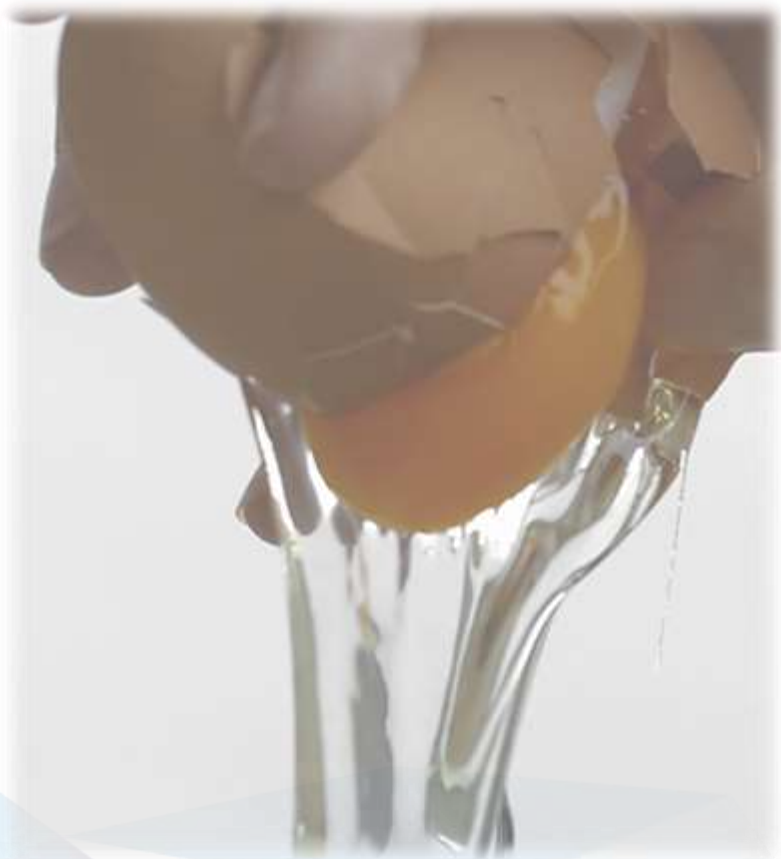
- EM: 22.1 to 22.9
- FCR: 1.99 to 1.92

## BN (115g/d: 48.3 kg until 80w)

- EM: 22.5 to 23.3
- FCR: 2.14 to 2.07



# H&N Eggs - only breaks at the right time



**Best eggshell colour**



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# Performance Evolution in Field Data

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# Commercial layers data



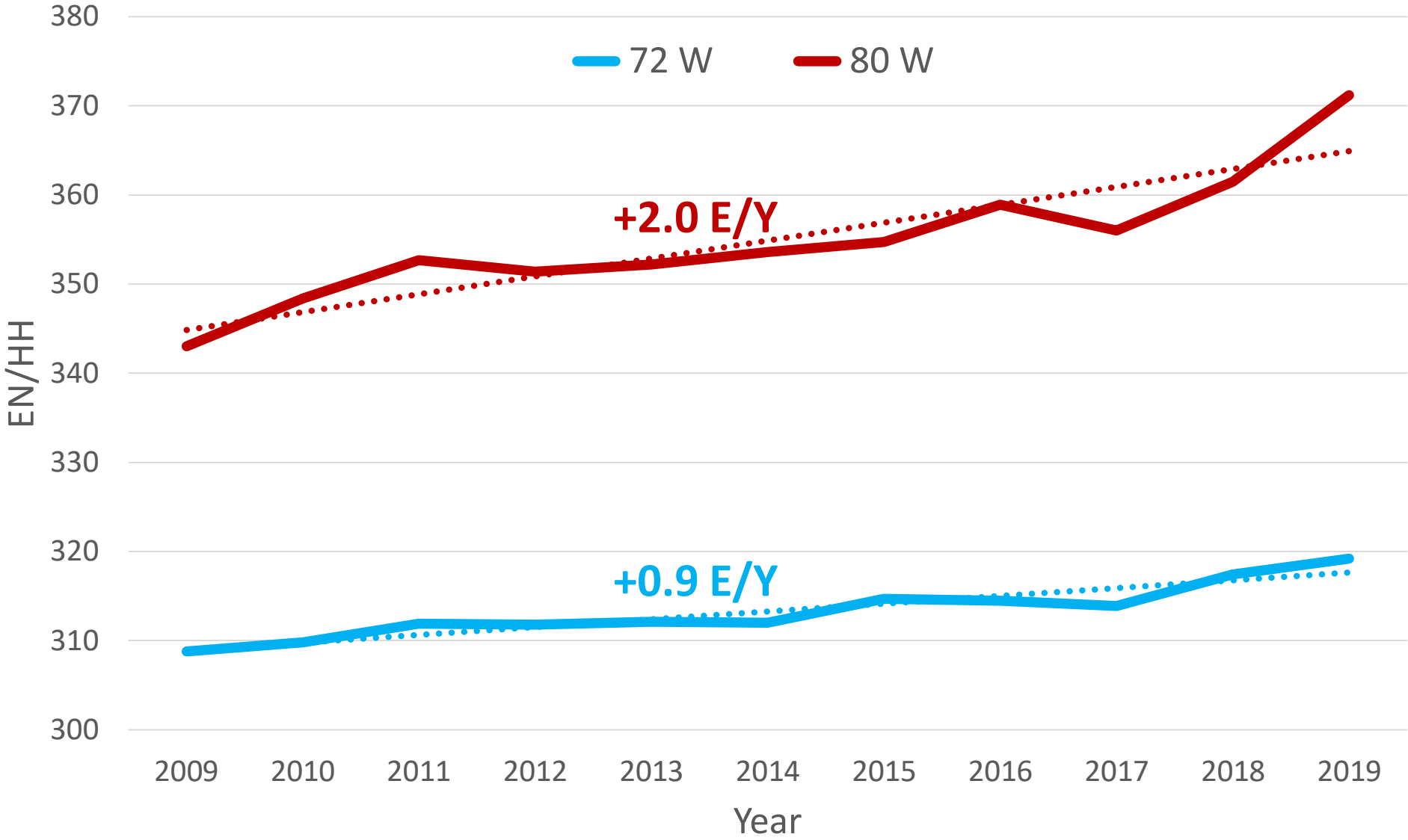
- New Data

- BN (99 Flocks) 2.6 Mill.
- SN+NC (83 Flocks) 2.6 Mill.

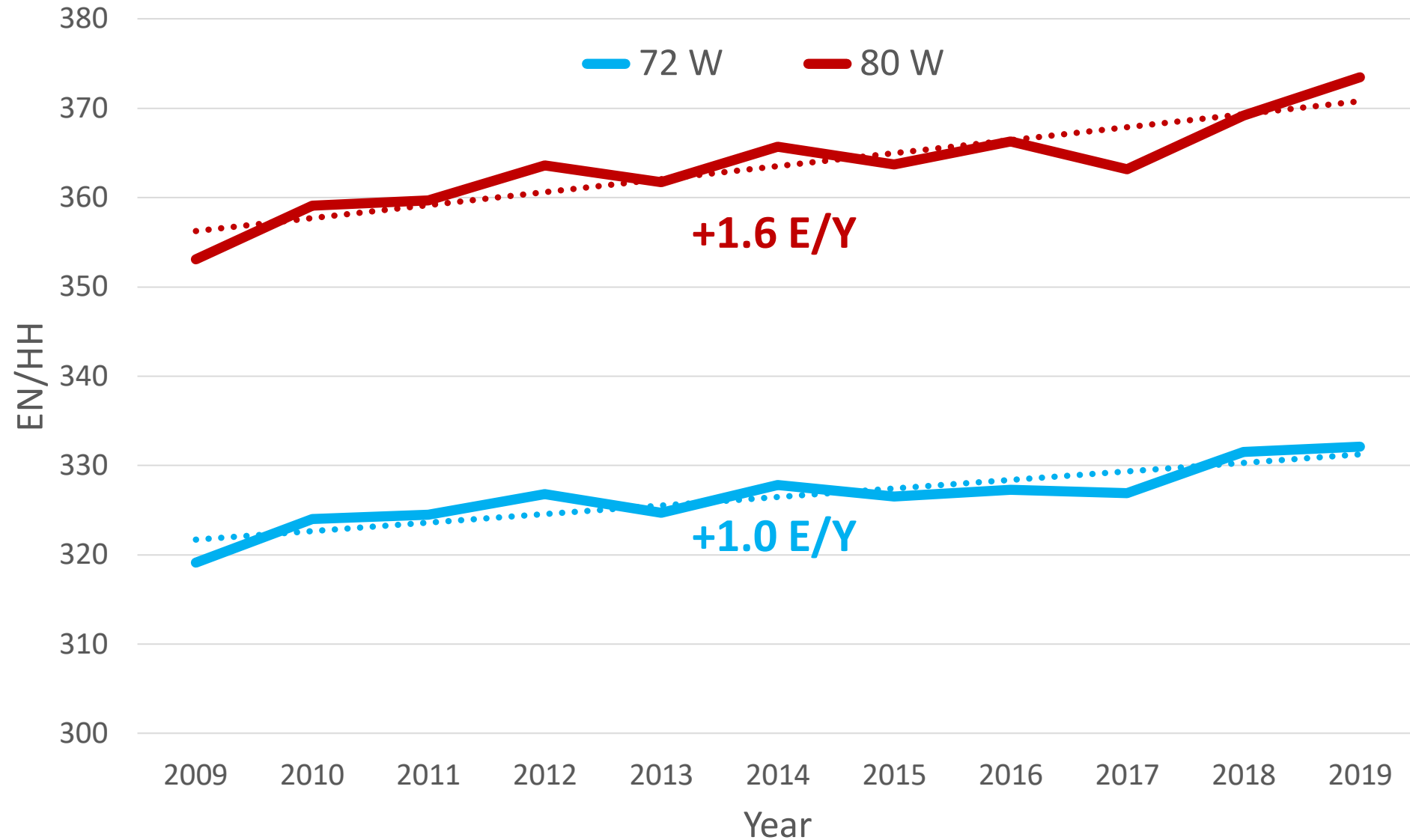
- Analysis of field data accumulated in our DB (2009-2019):

- BN (473 Flocks) 6.3 Mill.
- SN+NC (231 Flocks) 6.1 Mill.

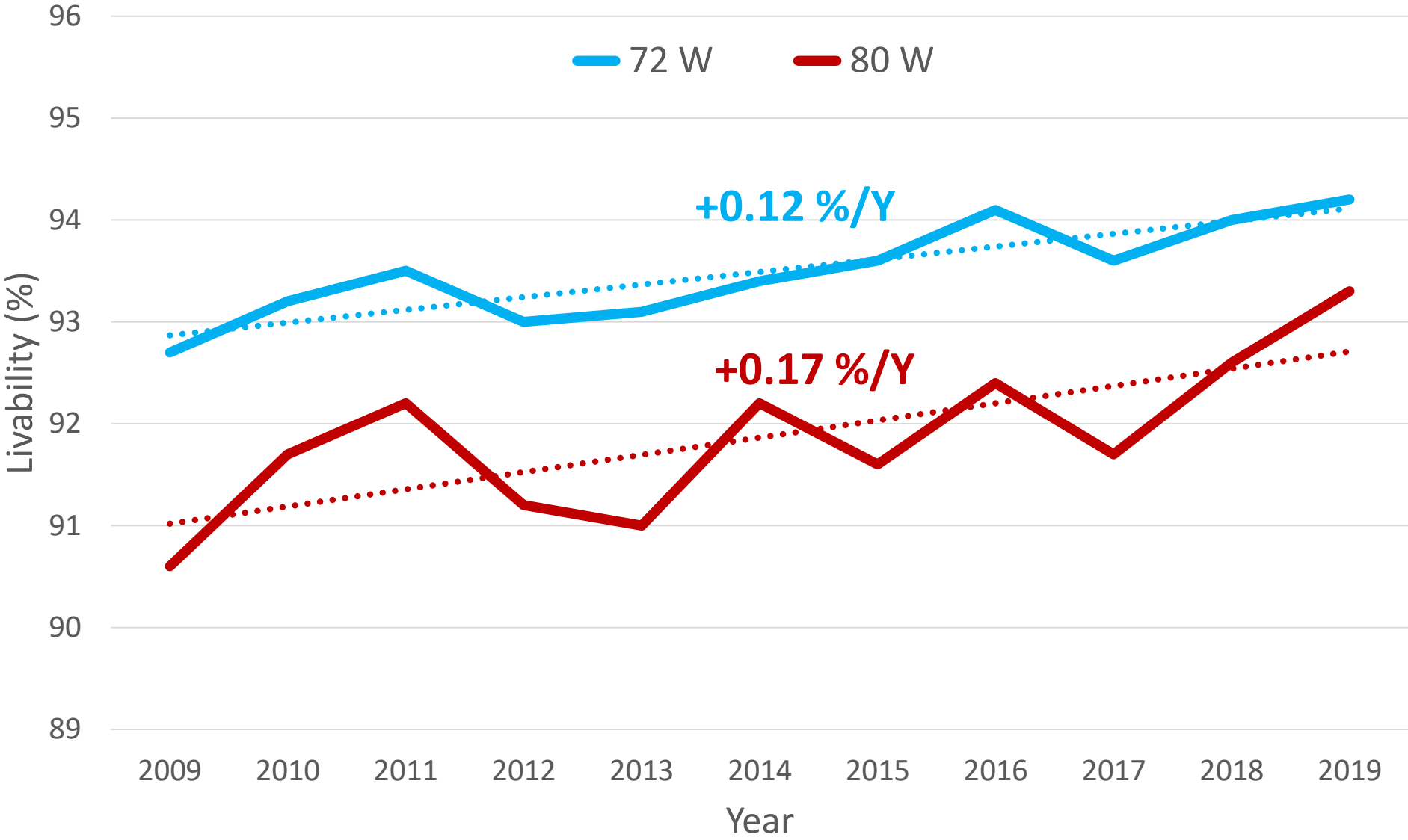
# Brown Layers – Field Data



# White Layers – Field Data

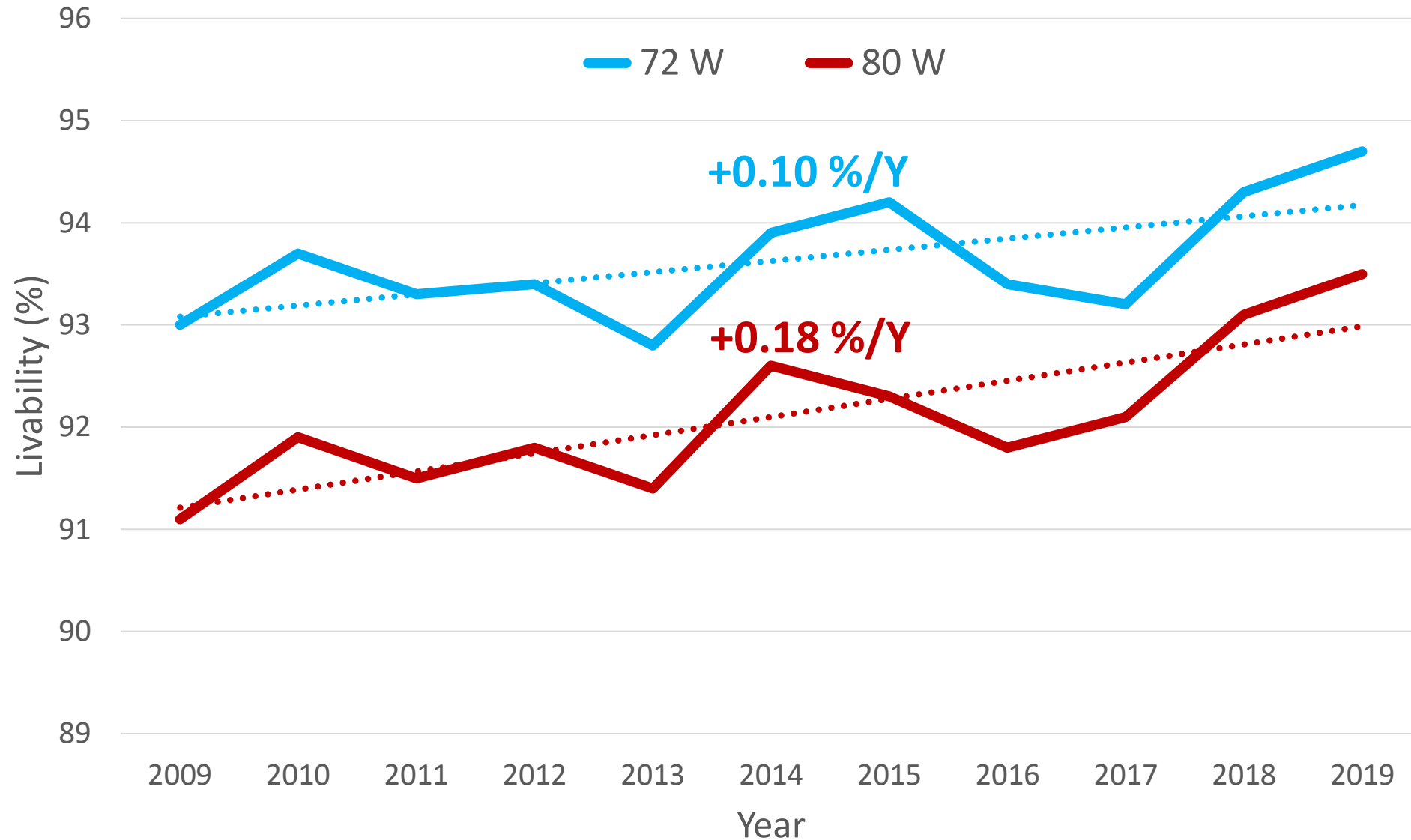


# Brown Layers – Field Data





# White Layers – Field Data



# Performance Evolution in RST

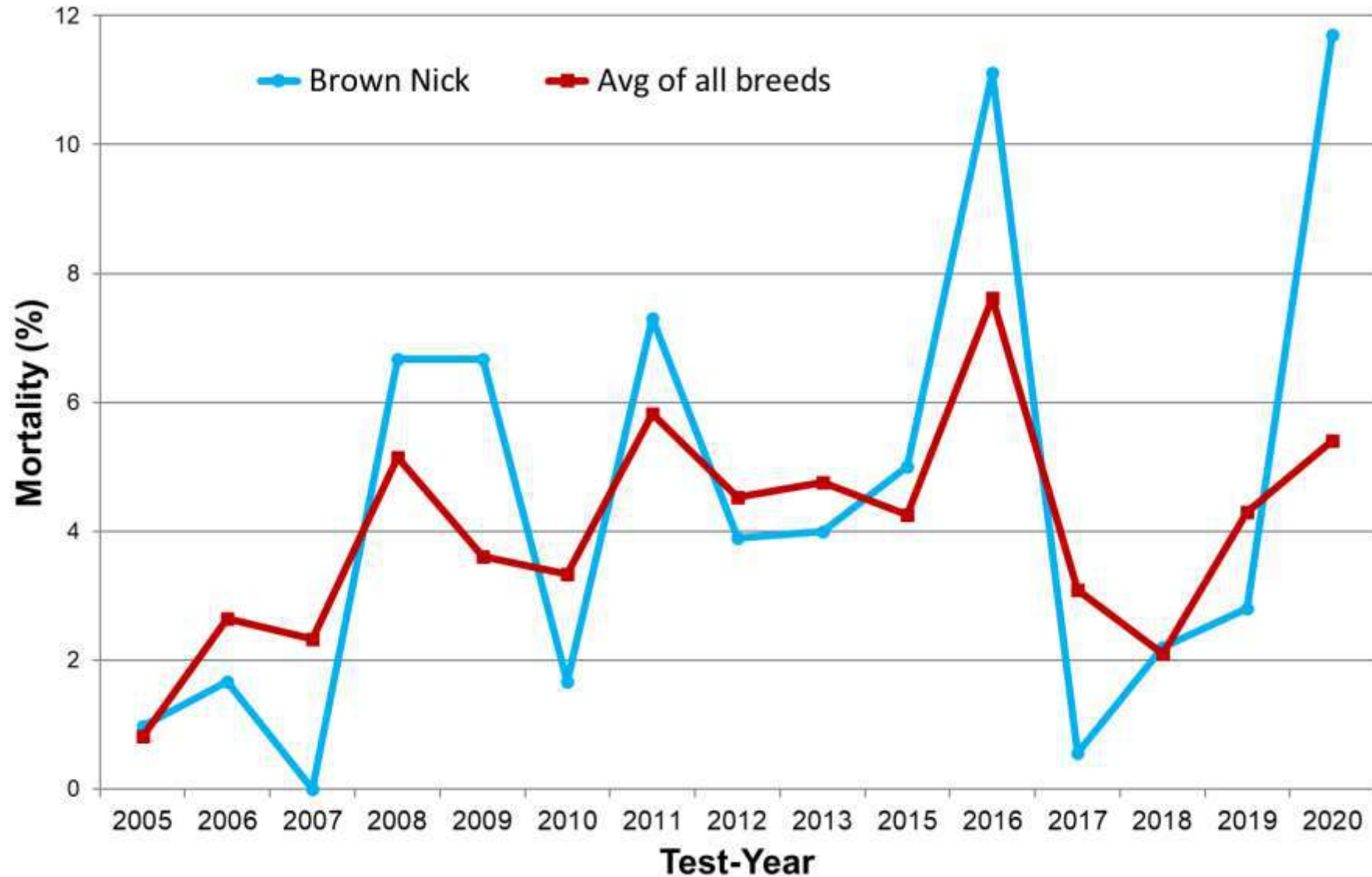
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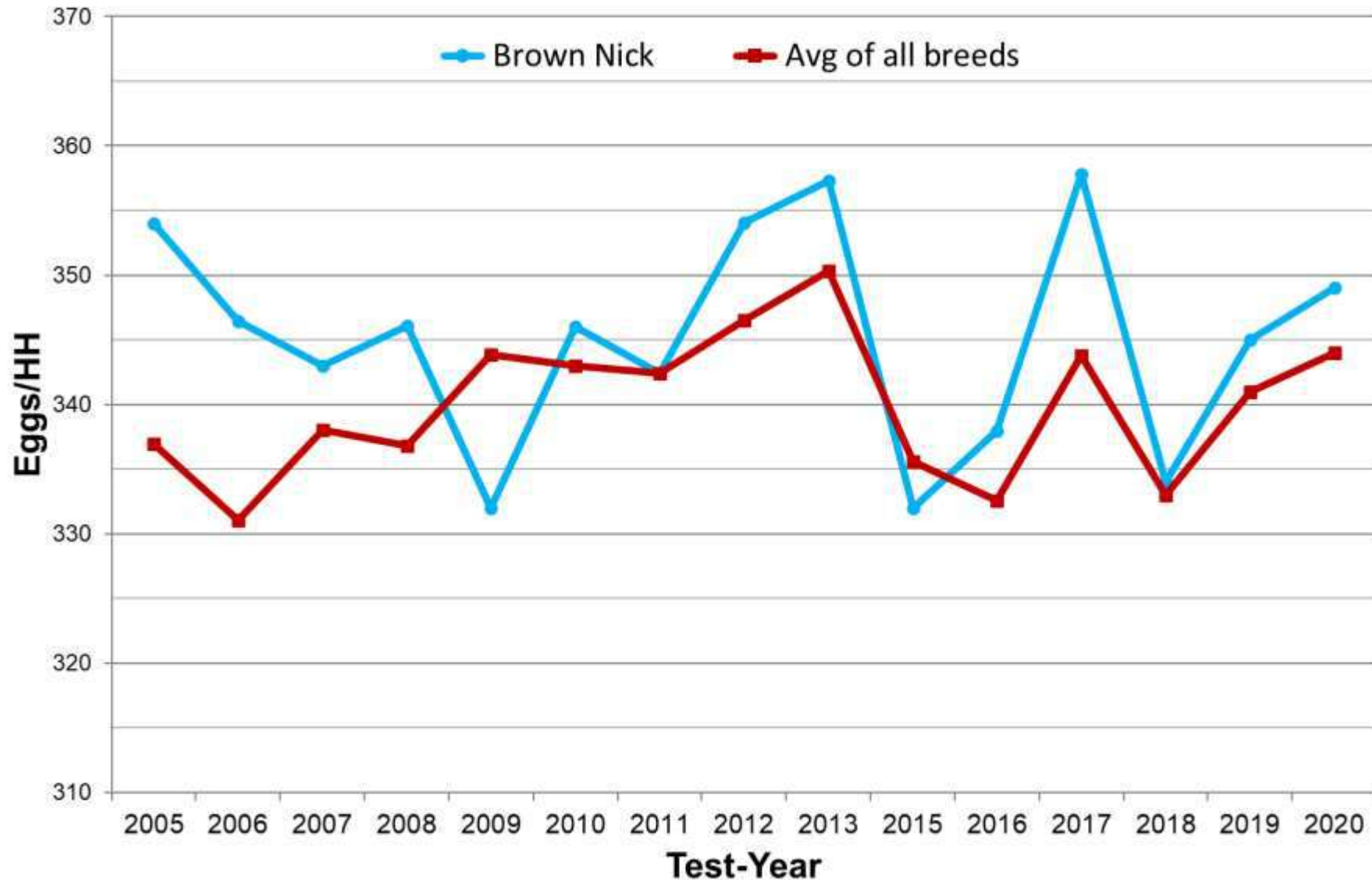
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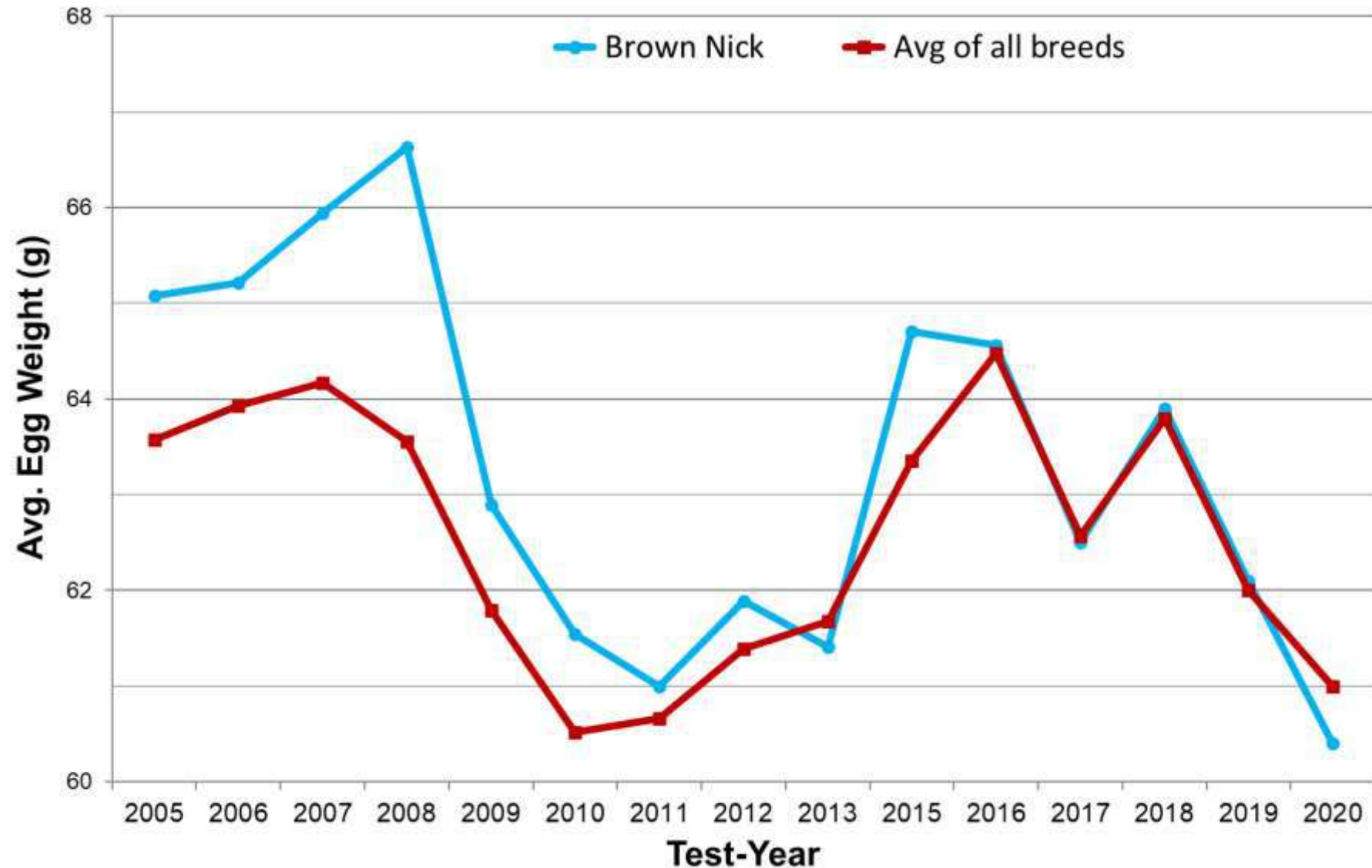
# Ustrasice – Enriched Cages (until 74w) - Mortality



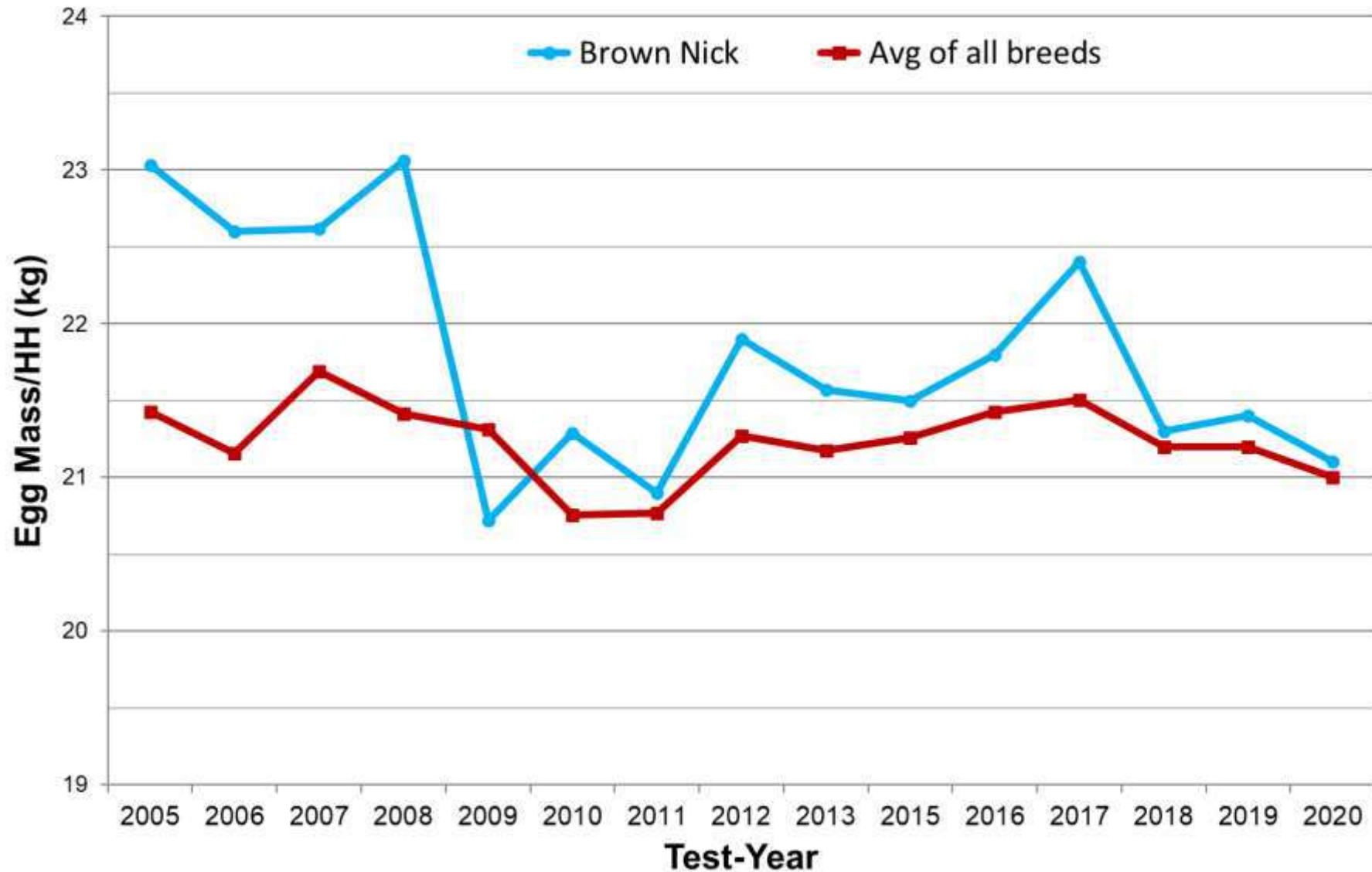
# Ustrasice – Enriched Cages (until 74w) – Egg Number



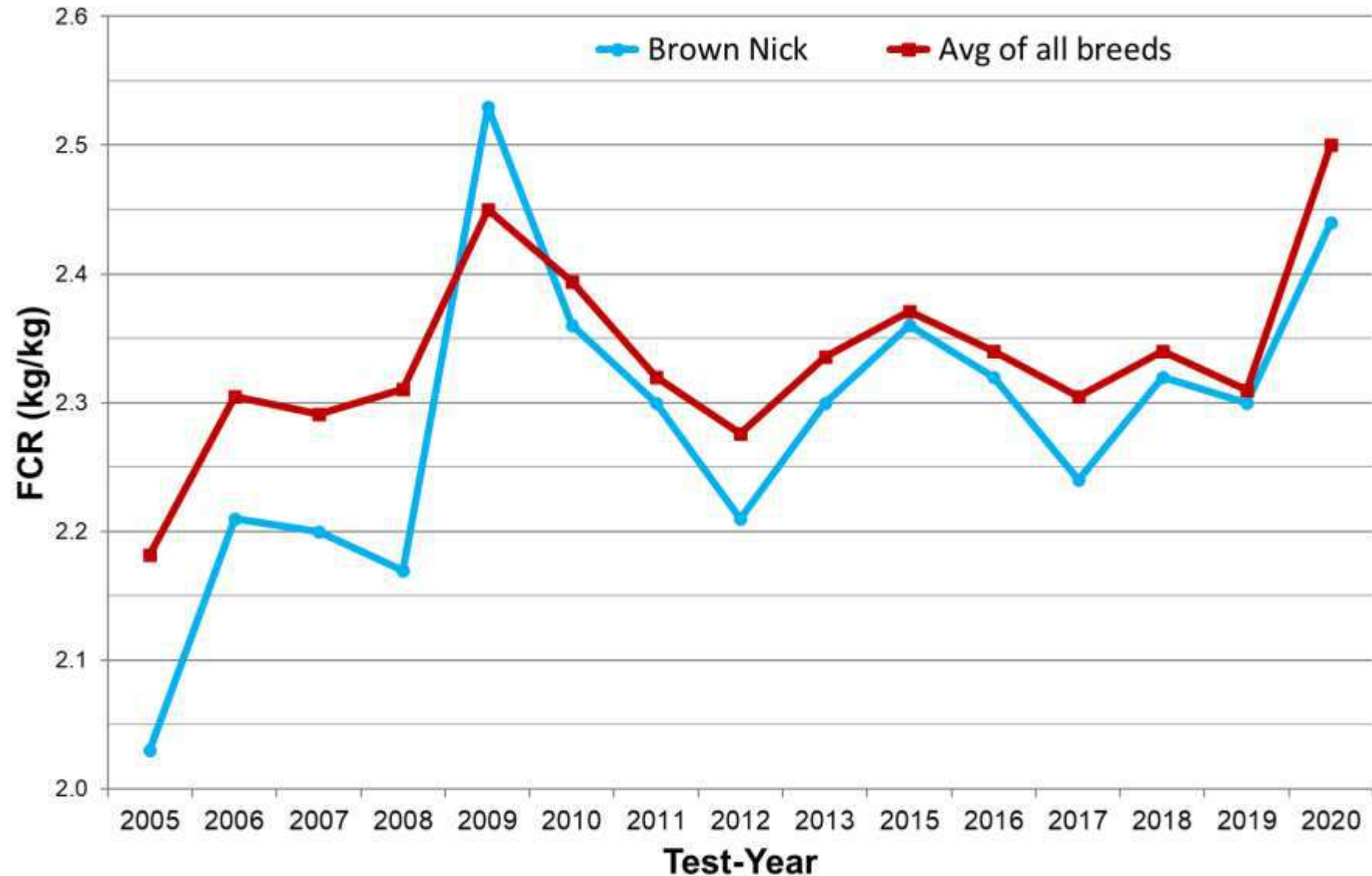
# Ustrasice – Enriched Cages (until 74w) – Egg Weight



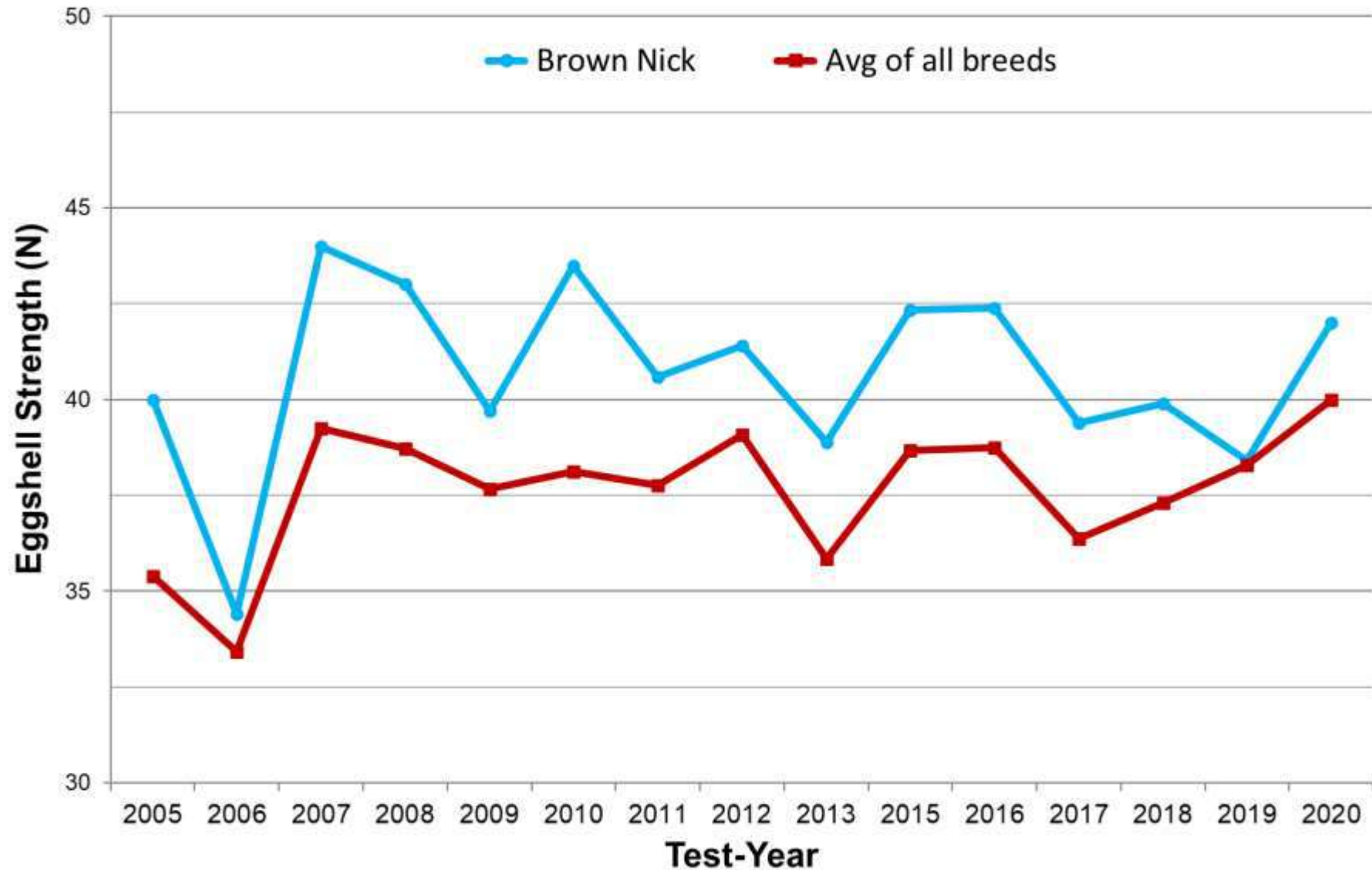
# Ustrasice – Enriched Cages (until 74w) – Egg Mass



# Ustrasice – Enriched Cages (until 74w) – FCR

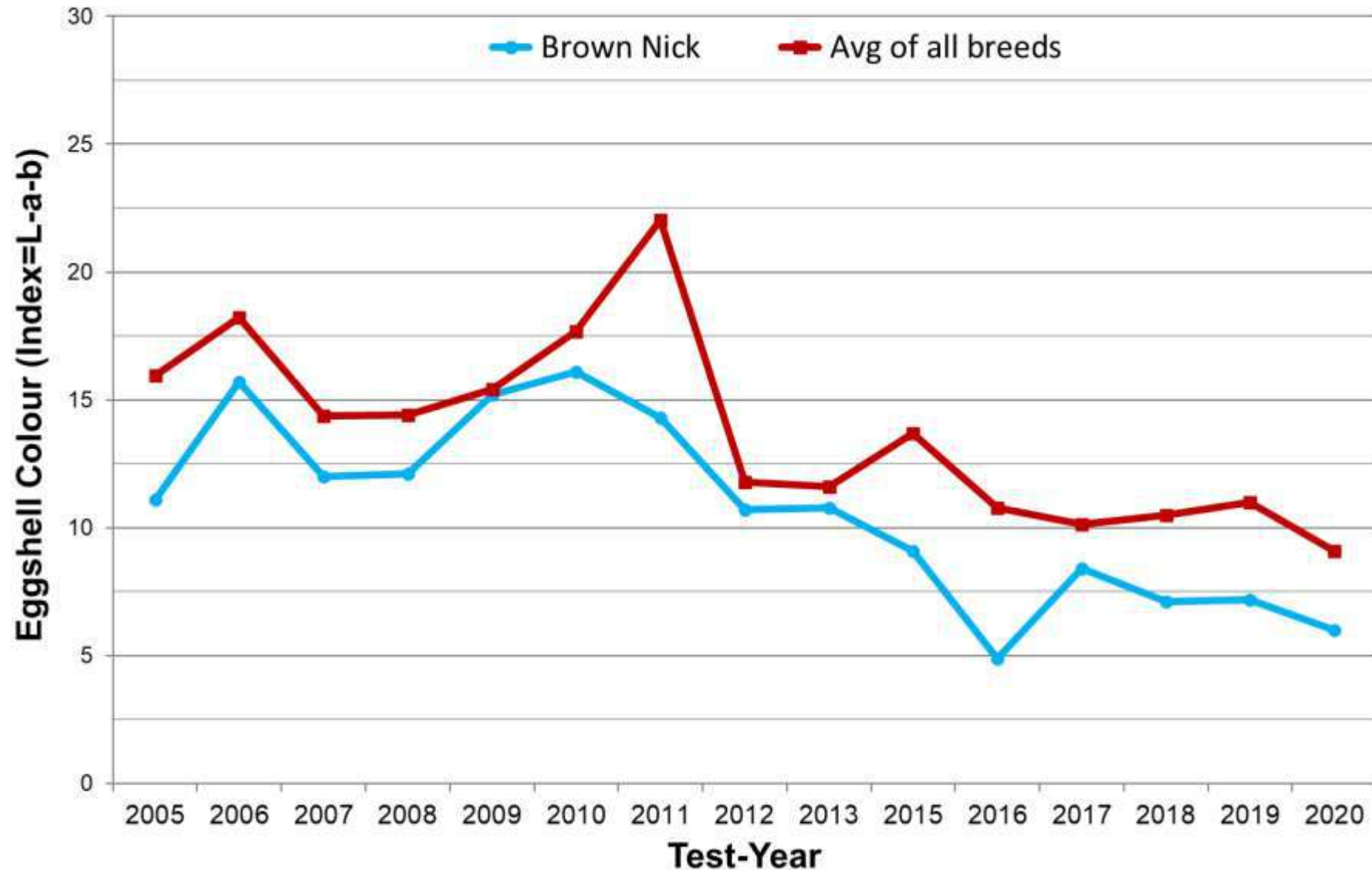


# Ustrasice – Enriched Cages (until 74w) – Breaking Strength

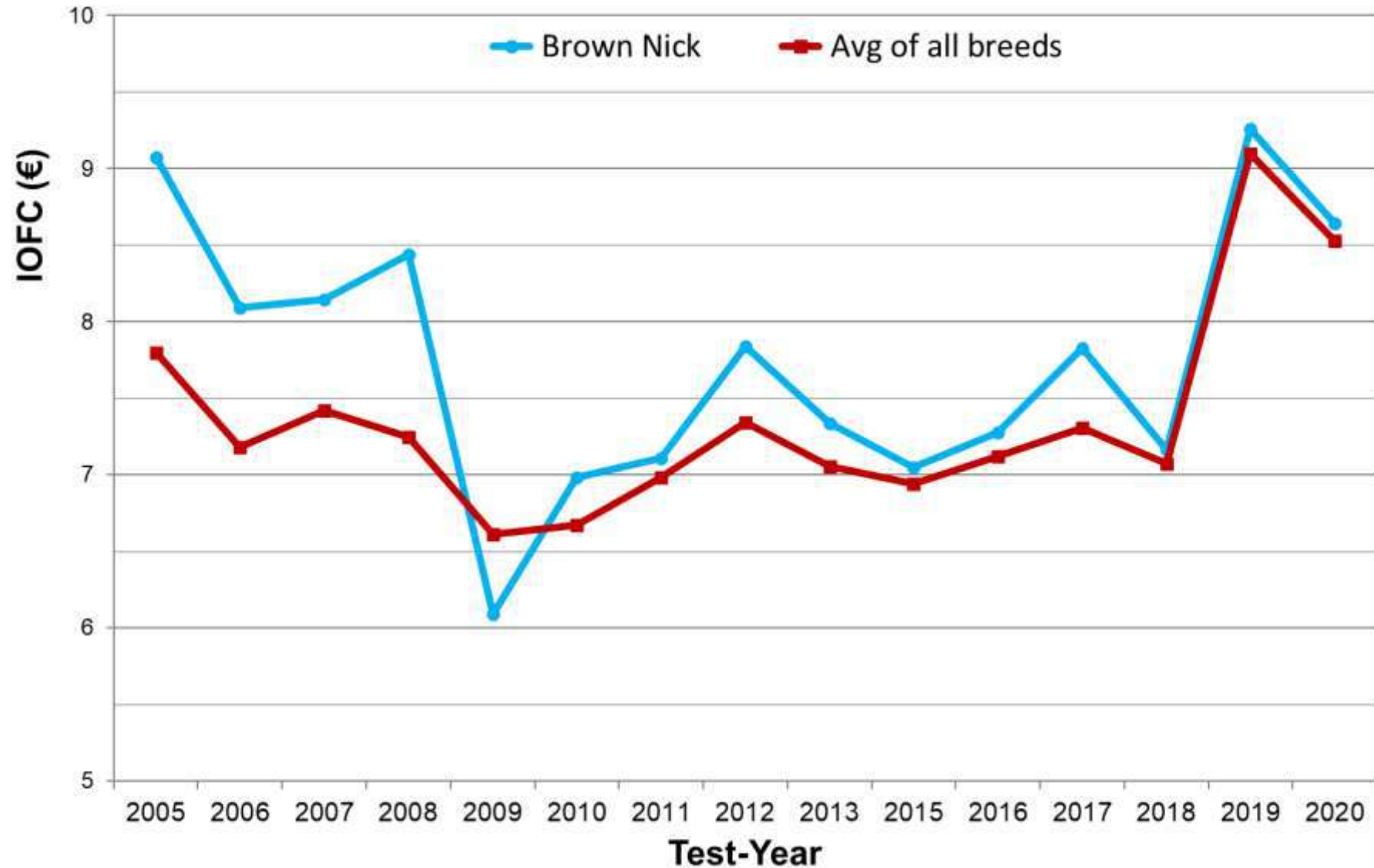




# Ustrasice – Enriched Cages (until 74w) – Shell Colour



# Ustrasice – Enriched Cages (until 74w) – IOFC



# Final Conclusions

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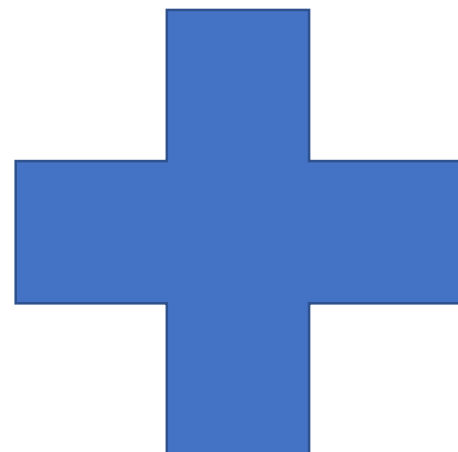
# Added Value Proposition (Sustainability)



More Production



Greater Liveability



Higher Efficiency



Better Adaptability



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# Take home message

- Many markets has low growth potential
- Genetic improvement will continue every year:
  - Hens will produce more eggs
  - Hens will be more efficient
  - Hens will be more robust/resilient with better adaptability
  - Production cycles will be longer

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**Hens will produce more & longer: 110, 120 weeks...it's a matter of time!  
Genetic Improvement will not stop!**

# Thank you for your attention and enjoy Mallorca



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