



Cage-free: Field data

Roberto Espinola

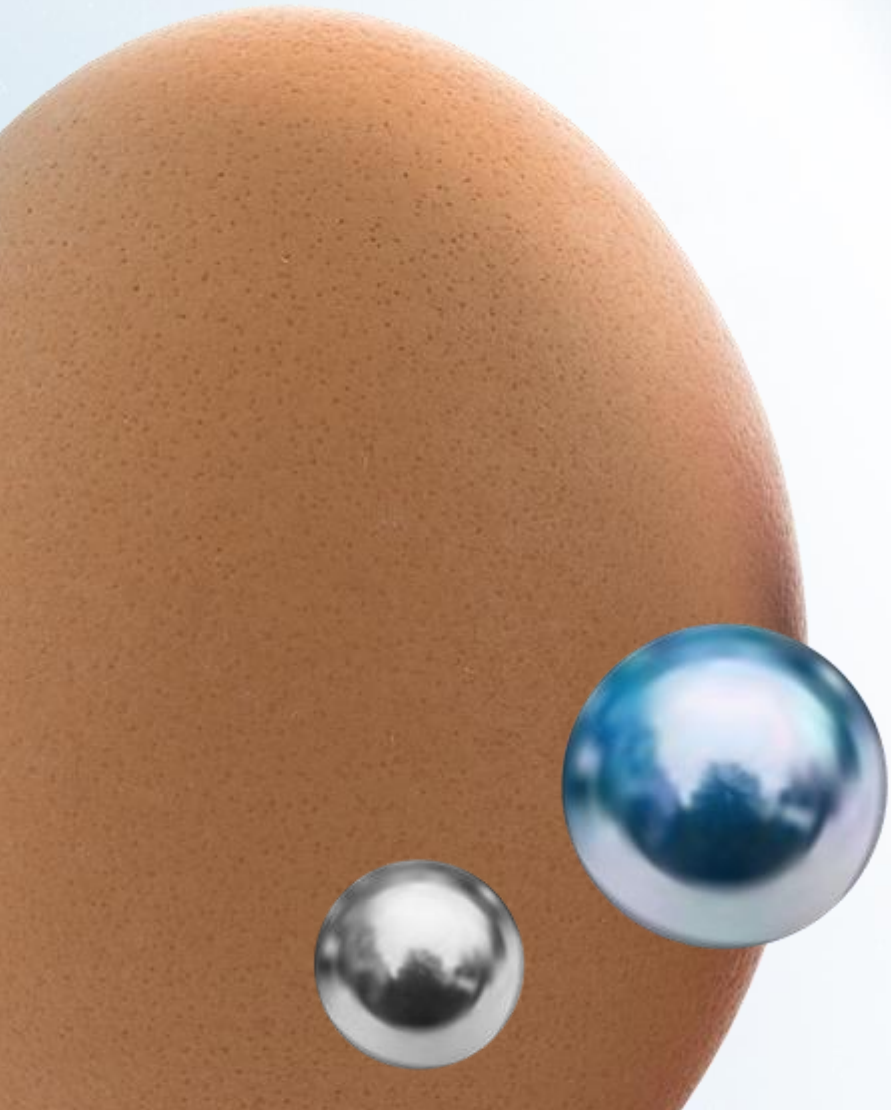
H&N Cage-Free Academy, Cuxhaven – 30.03.2022

Content

- **Housing types**

- **Field data**
 - Overview
 - Representative countries
 - RST Ustrasice

- **Conclusions**

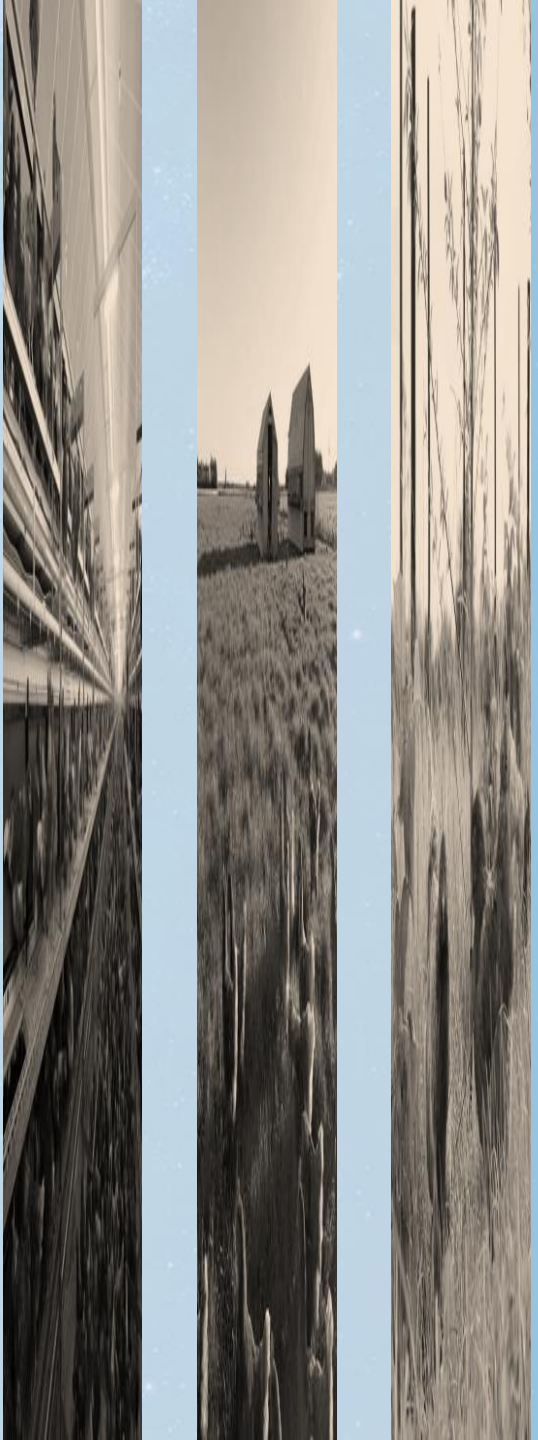


Housing types



Cage

<https://cdn.globalagmedia.com/poultry/articles/layers-and-eggs/layers/layer-caged-2.jpeg>





Floor

Free-range



<https://www.poultryworld.net/poultry/selling-free-range-eggs-online/>



Organic

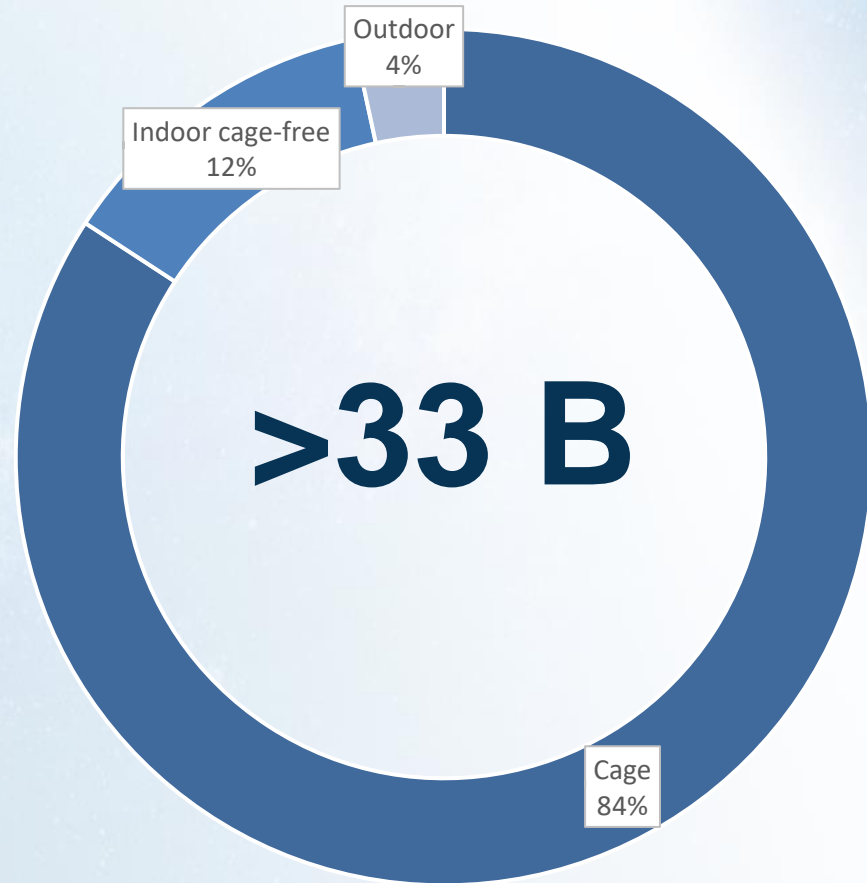
Field data

Overview



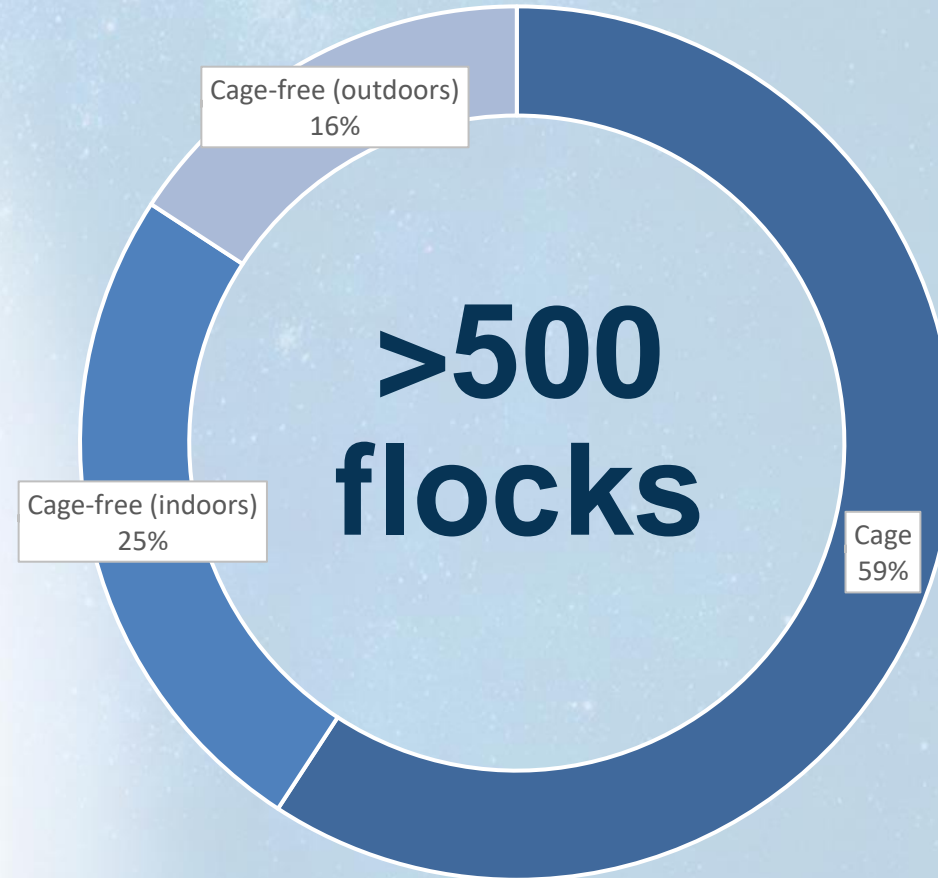
Overview

Global situation



■ Cage ■ Indoor cage-free ■ Outdoor

H&N



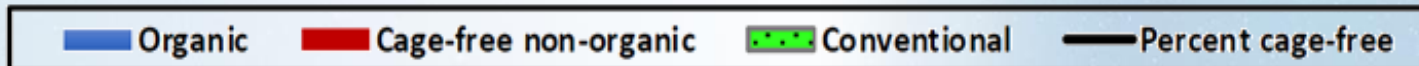
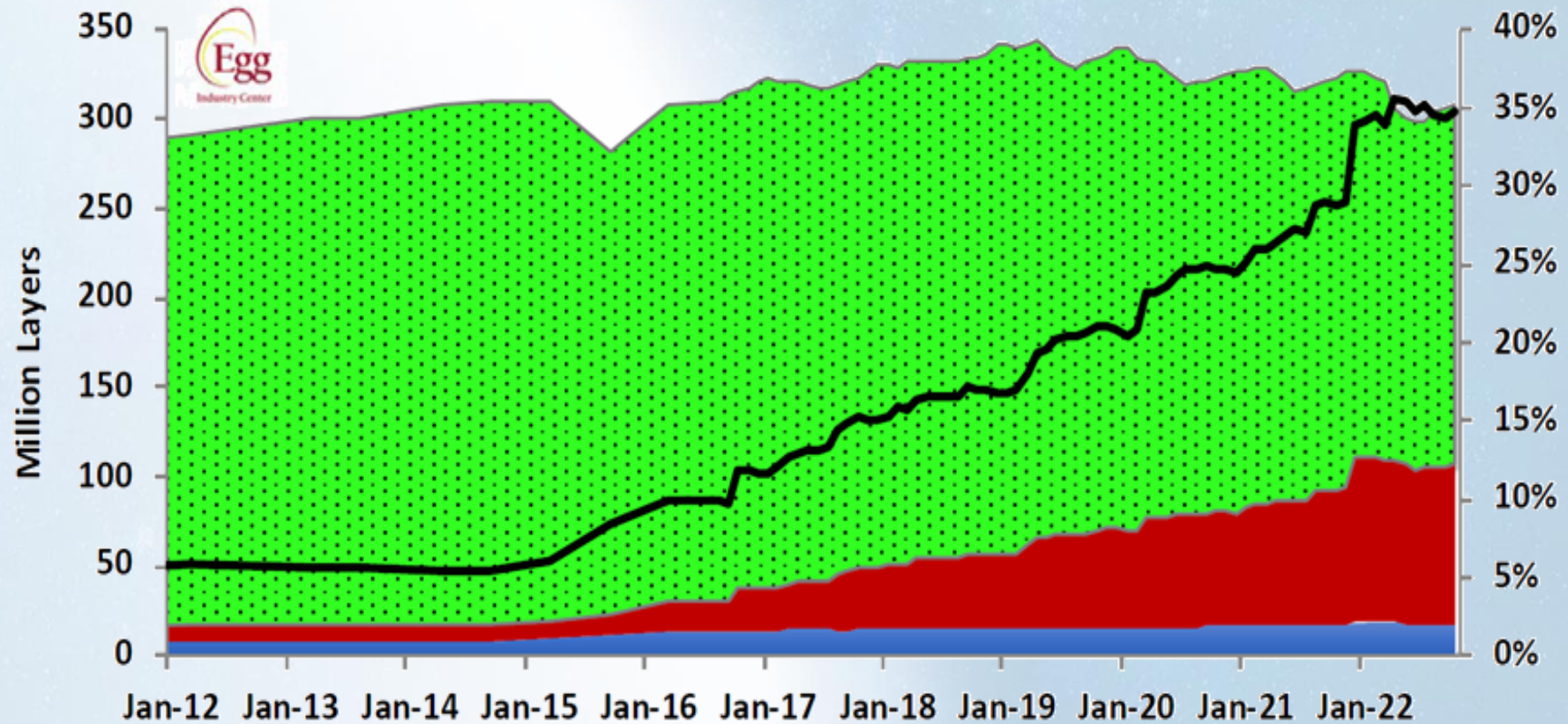
■ Cage ■ Cage-free (indoors) ■ Cage-free (outdoors)

Europe / N° hens by housing system

2021			% by farming method in respective country			
Member State (MS)	Total laying hens in MS	% MS / EU	% enriched	% barn	% free range	% organic
DE	58,064,747	15.4%	5.5%	58.8%	22.1%	13.6%
PL	51,241,025	13.6%	76.2%	17.8%	5.0%	1.0%
FR*	48,255,709	12.8%	54.1%	11.7%	23.0%	11.2%
ES	47,069,236	12.5%	73.3%	16.1%	9.1%	1.6%
IT	40,519,407	10.8%	35.6%	54.5%	4.9%	4.9%
NL	31,483,393	8.4%	7.8%	60.9%	22.8%	8.6%
BE	10,814,337	2.9%	36.2%	42.8%	13.5%	7.4%
PT	10,228,212	2.7%	75.0%	19.5%	4.7%	0.8%
RO	8,954,319	2.4%	57.3%	36.8%	3.3%	2.7%
SE	8,655,197	2.3%	3.7%	77.0%	4.9%	14.3%
HU	7,548,745	2.0%	71.2%	27.2%	1.3%	0.3%
AT	7,406,040	2.0%	0.0%	58.7%	28.4%	12.9%
CZ	7,471,545	2.0%	62.1%	36.2%	1.2%	0.4%
BG	5,090,680	1.4%	70.1%	27.5%	2.3%	0.0%
FI	5,071,922	1.3%	45.5%	43.9%	3.5%	7.1%
EL**	4,649,598	1.2%	76.5%	12.4%	5.5%	5.6%
DK	4,331,408	1.2%	9.9%	49.0%	8.1%	33.0%
IE	3,880,164	1.0%	48.5%	1.4%	46.4%	3.7%
LV	3,533,598	0.9%	69.3%	27.5%	3.0%	0.2%
SK	3,126,067	0.8%	75.3%	22.3%	2.2%	0.2%
LT	2,926,891	0.8%	79.6%	18.5%	1.2%	0.6%
HR	2,369,476	0.6%	62.1%	33.5%	3.9%	0.5%
SI	1,449,060	0.4%	17.2%	61.4%	18.9%	2.6%
EE	843,487	0.2%	87.7%	8.3%	2.6%	1.4%
CY	516,461	0.1%	67.8%	15.9%	13.1%	3.2%
MT	360,585	0.1%	99.4%	0.6%	0.0%	0.0%
LU	134,497	0.0%	0.0%	66.6%	10.7%	22.7%
TOTAL	375,995,806	100%	44.9%	35.6%	12.8%	6.6%

USA / N° hens by housing system

Figure 6: U.S. Cage-Free and Conventional Layers



Source: USDA AMS

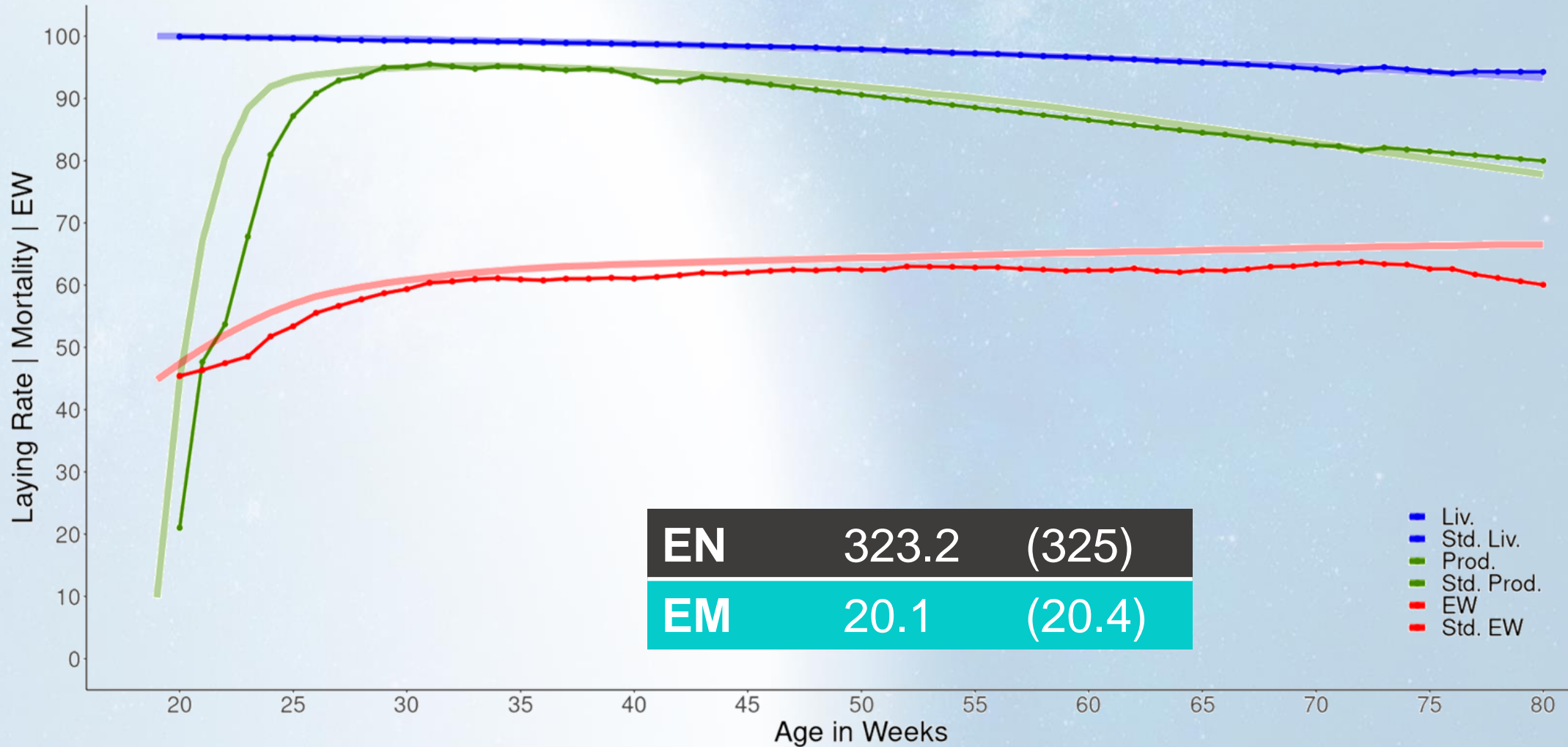
Performance traits

- a. Liveability**
- b. Egg weight**
- c. Laying rate**
- d. Egg Mass**
- e. Egg Number HH**



FR

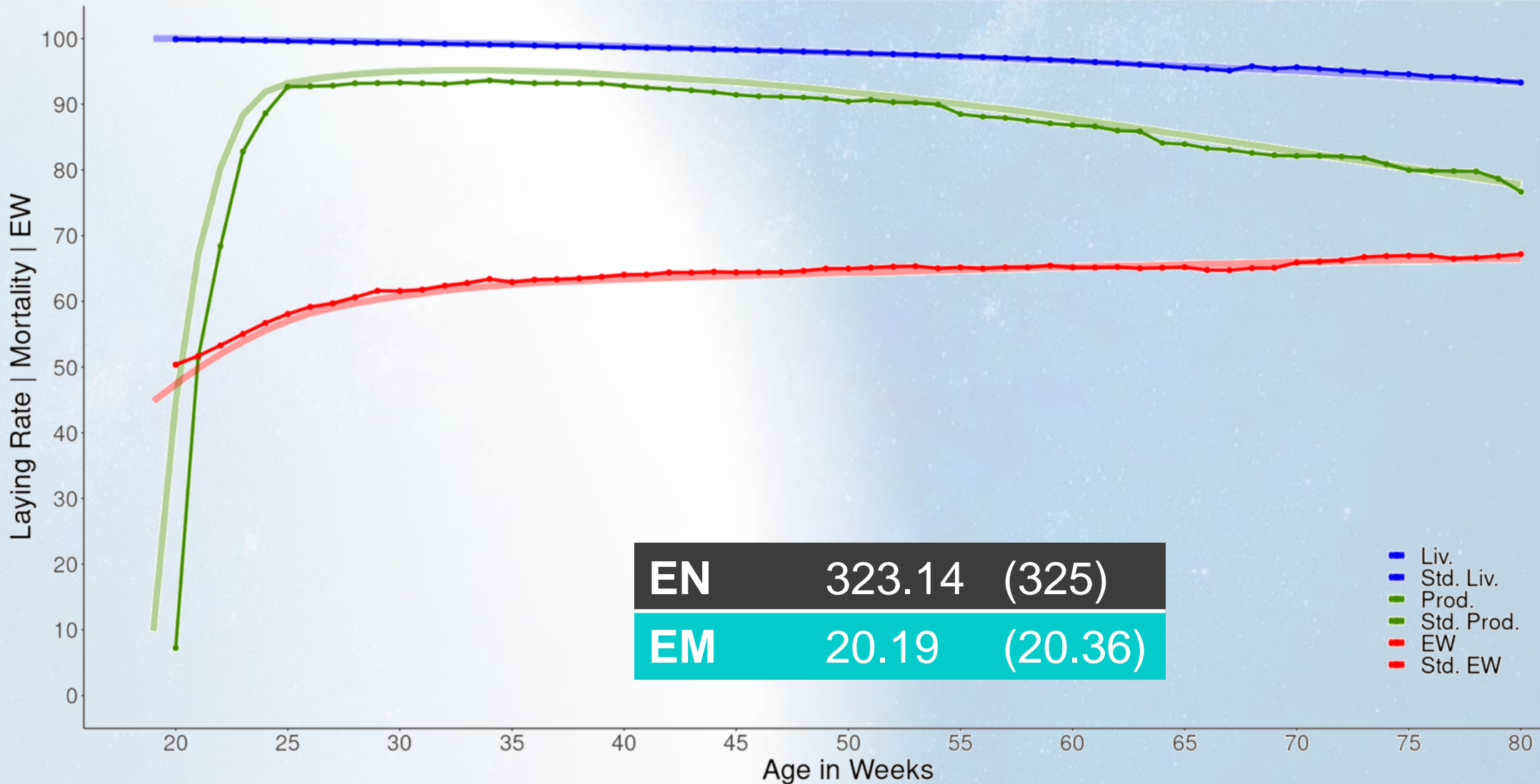
France / BN (3 flocks / 50K birds)





**ES
PT**

ES & PT / BN (17 flocks / 250K birds)

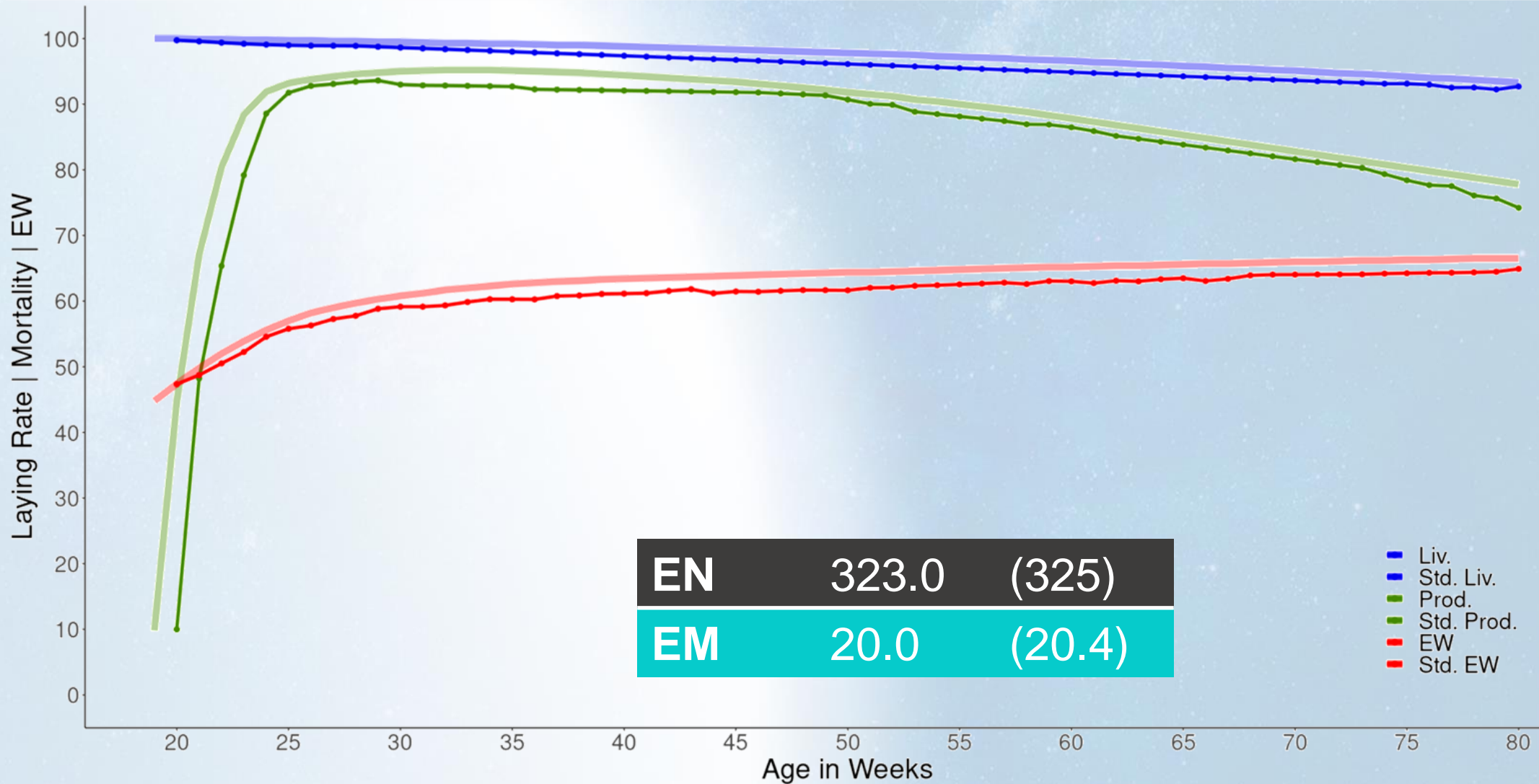


- Liv.
- Std. Liv.
- Prod.
- Std. Prod.
- EW
- Std. EW



CO

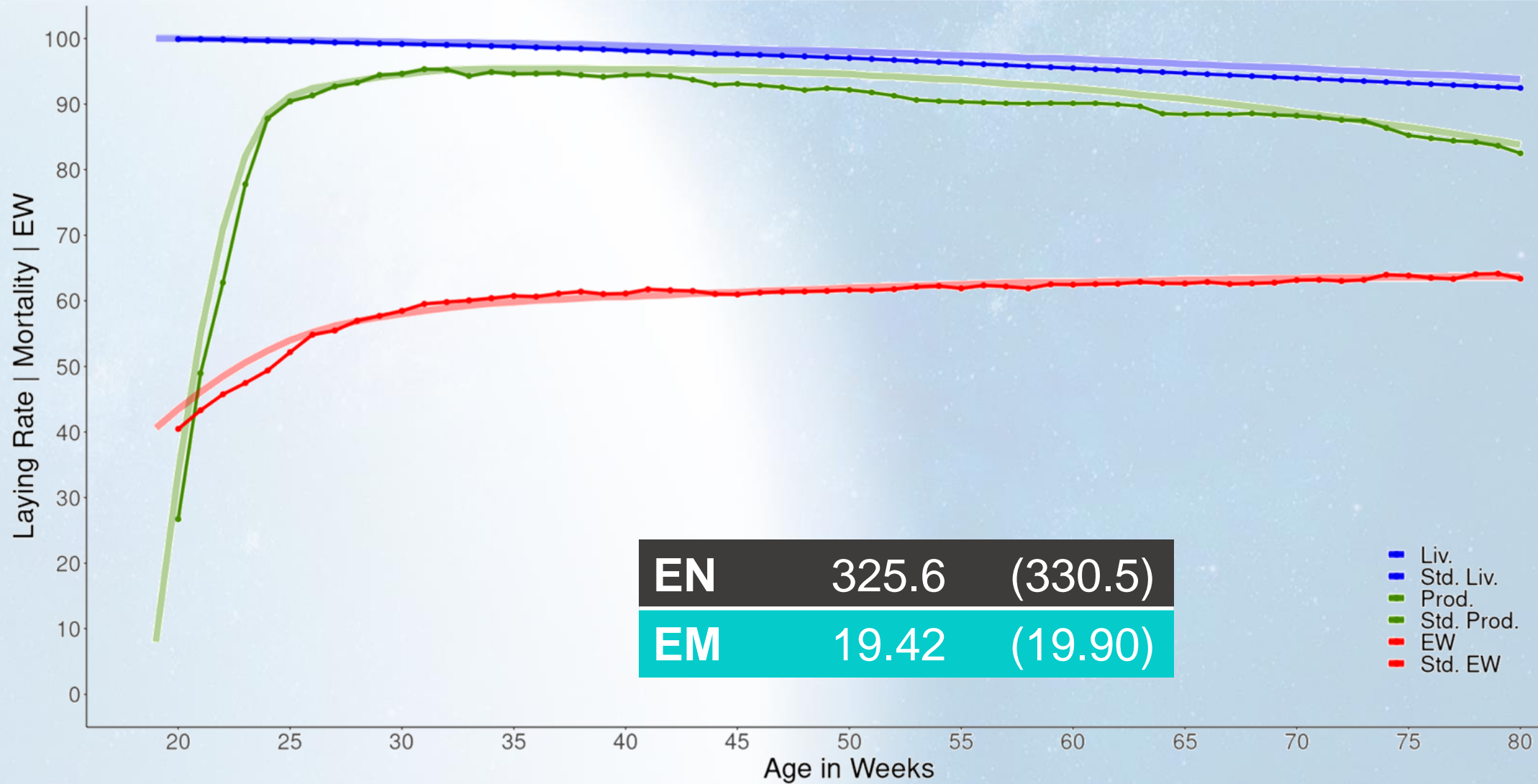
Colombia / BN (95 flocks / 1,8M birds)





US

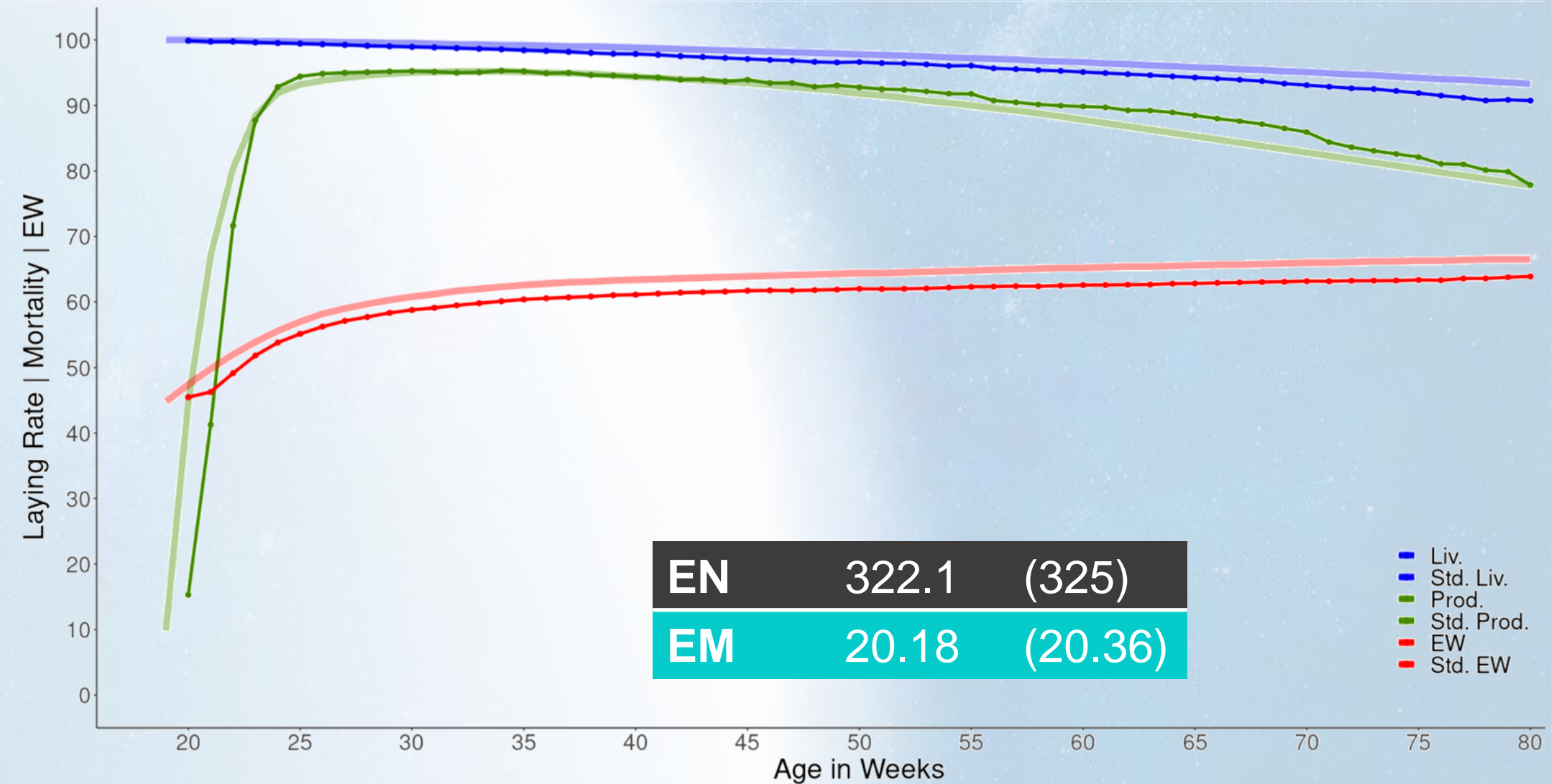
USA / NC (33 flocks / 2M birds)





NL

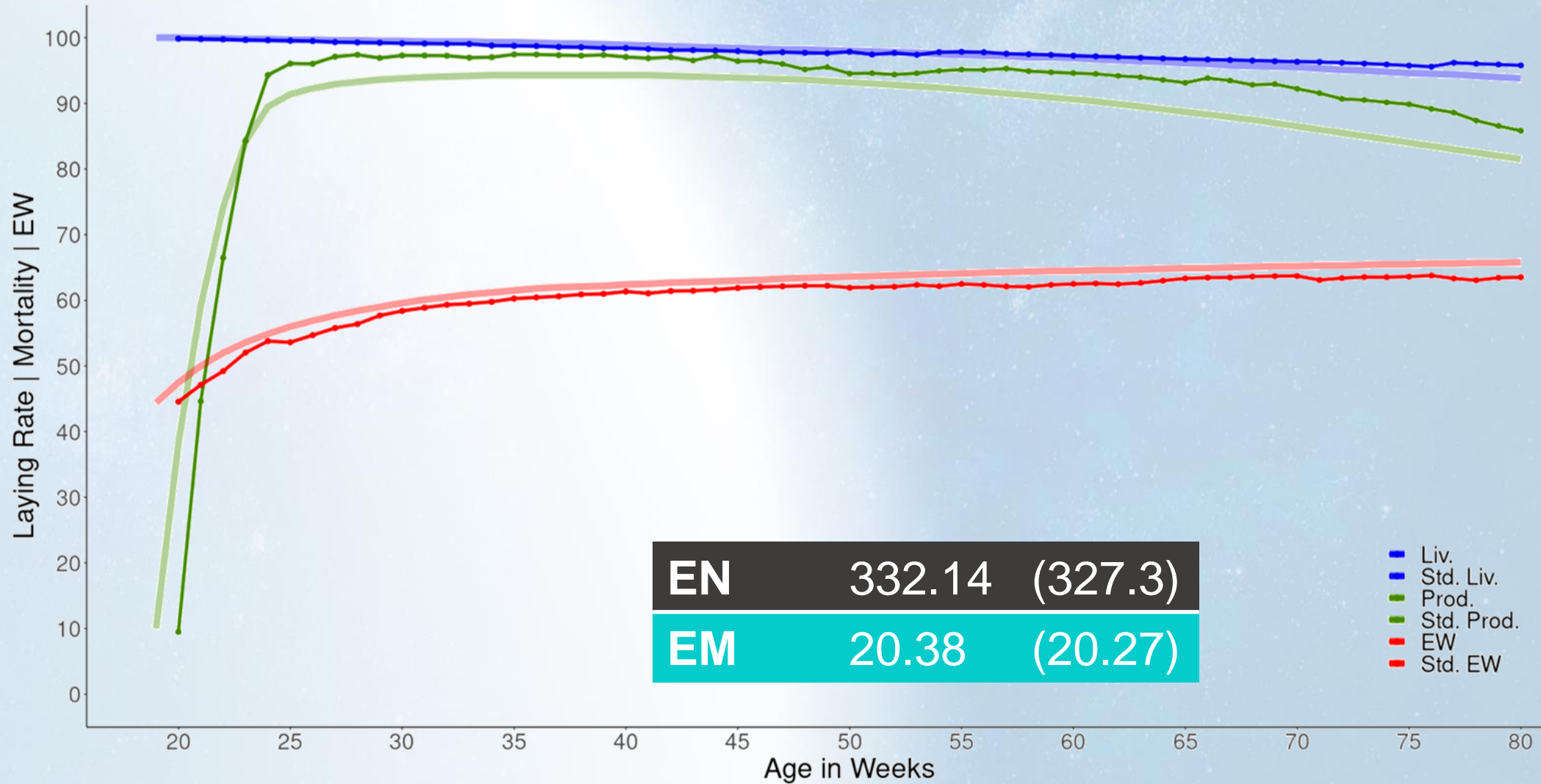
NL / BN (96 flocks / 3.7M birds)



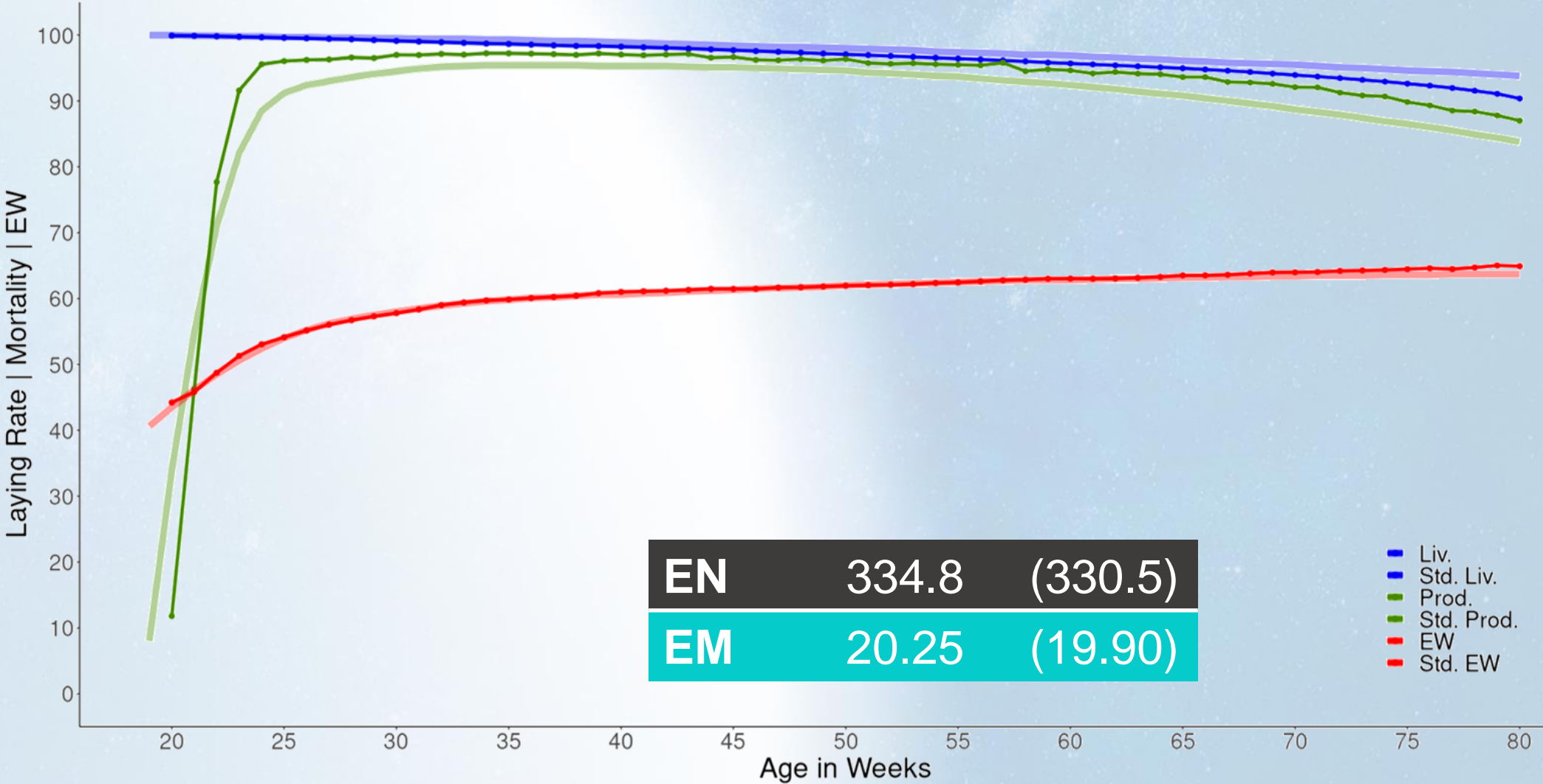


NL

NL / SN (49 flocks / 4.2M birds)



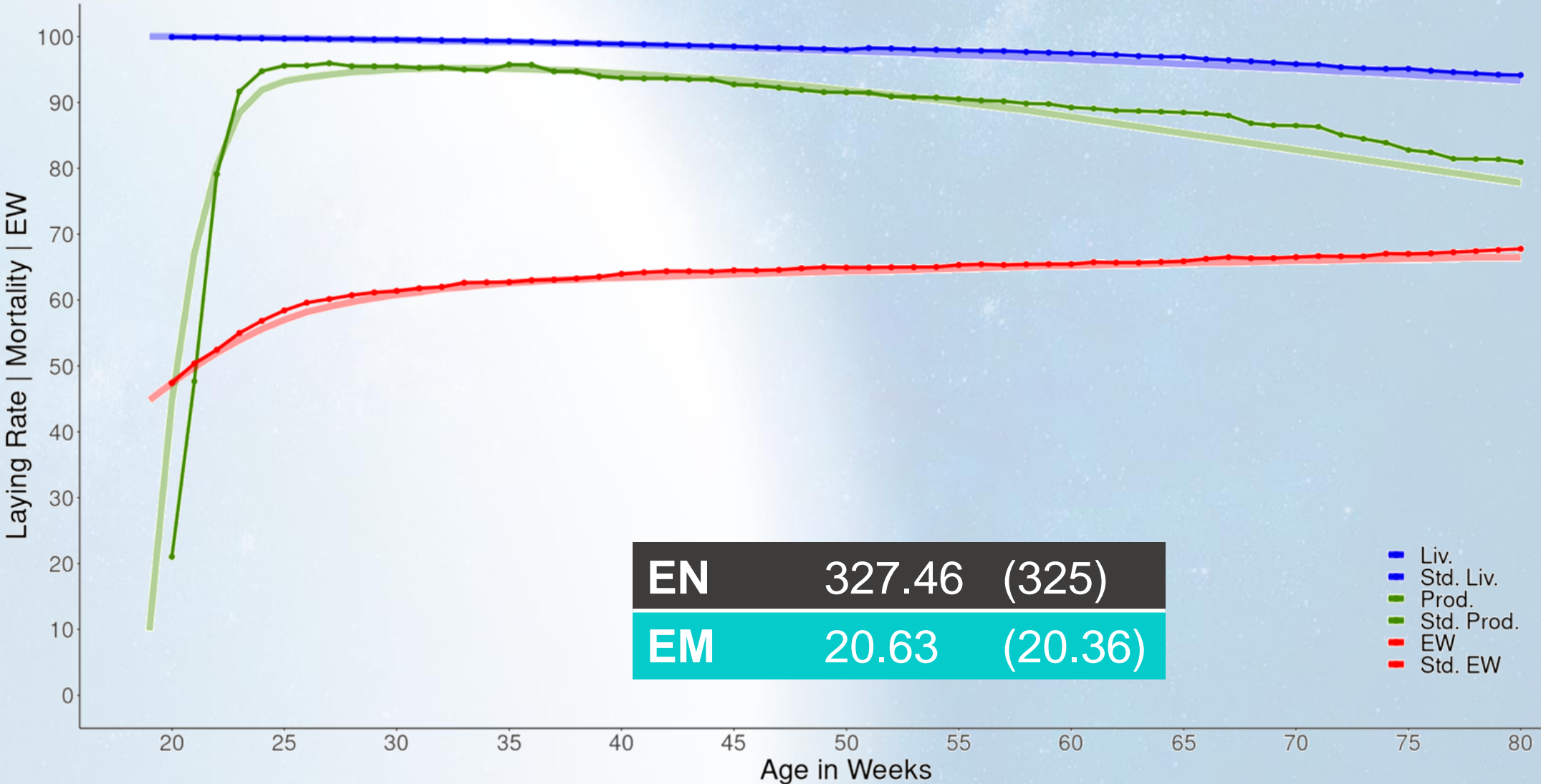
NL / NC (33 flocks / 3.2M birds)





UK

UK / BN (22 flocks, 627K birds)



EN	327.46	(325)
EM	20.63	(20.36)

- Liv.
- Std. Liv.
- Prod.
- Std. Prod.
- EW
- Std. EW

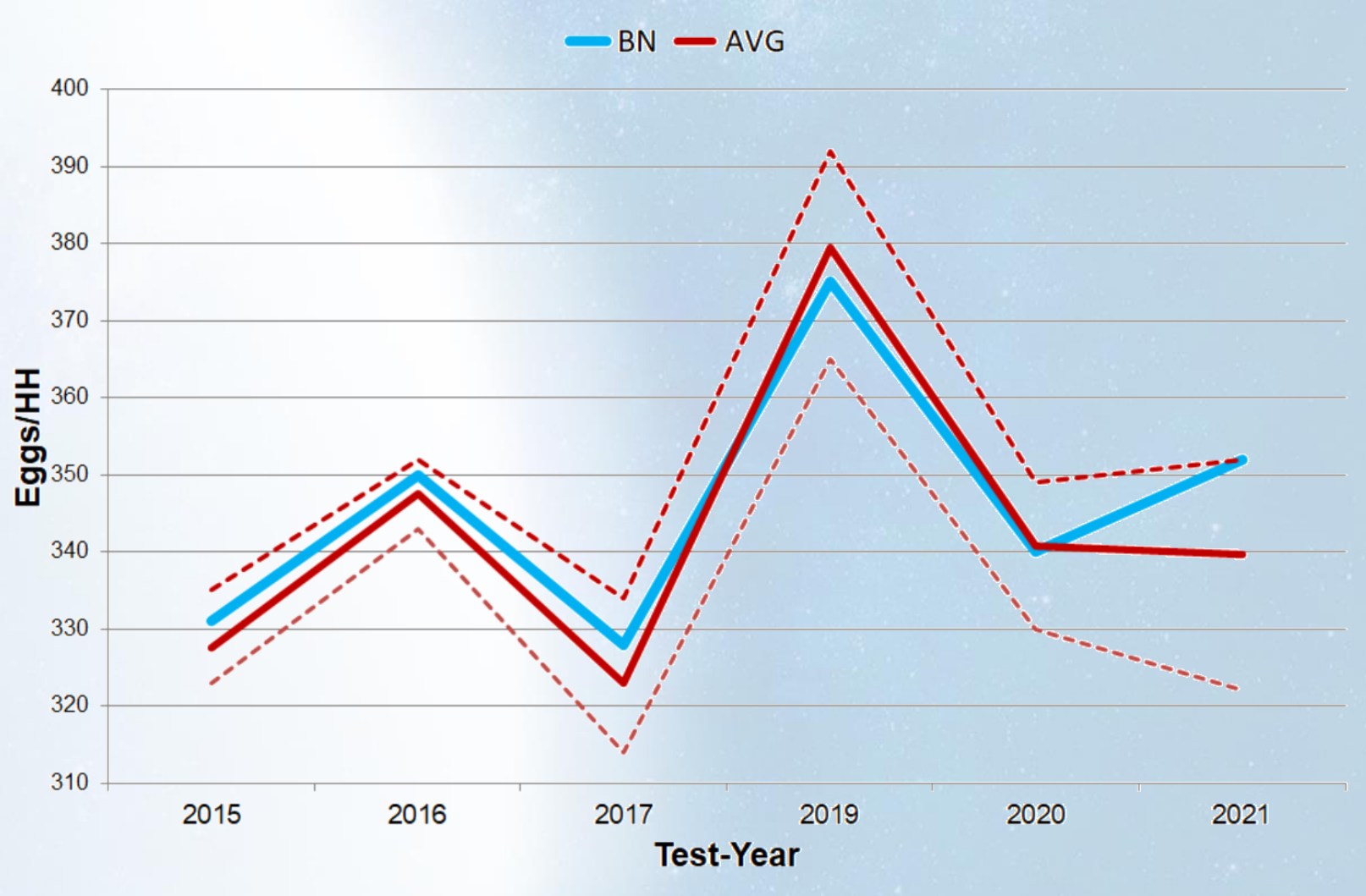
RST Ustrasice – Cage-Free (18-74w)

Summary 2015-2022

Breed	Tests	Mort.	50%P	Eggs/HH	EW (g)	EM (kg)	Feed	FCR	BW	SS (N)	SC	Cracks	IOFC
BN	6	5.0	145	346.0	61.9	21.42	128.4	2.33	1918	43.7	8.9	6.7	7.17
A	6	4.6	143	346.7	62.8	21.75	132.6	2.40	1973	38.6	13.1	8.1	7.02
B	5	2.6	143	345.8	62.2	21.50	133.9	2.44	2001	37.5	13.2	8.6	6.82
C	5	5.0	142	347.6	63.3	22.0	129.6	2.27	1960	44.3	10.3	6.6	7.61
D	4	6.6	143	345.8	61.2	21.15	131.3	2.41	1934	43.4	9.9	7.7	6.92
E	6	9.0	144	333.2	64.0	21.30	128.3	2.31	1953	42.9	11.8	8.4	7.26
F	3	4.0	143	346.0	61.9	21.43	133.7	2.48	1961	38.3	15.1	9.7	6.54
Avg	39	5.2	143	344.5	62.5	21.52	131.1	2.37	1961	41.6	11.4	7.8	7.06

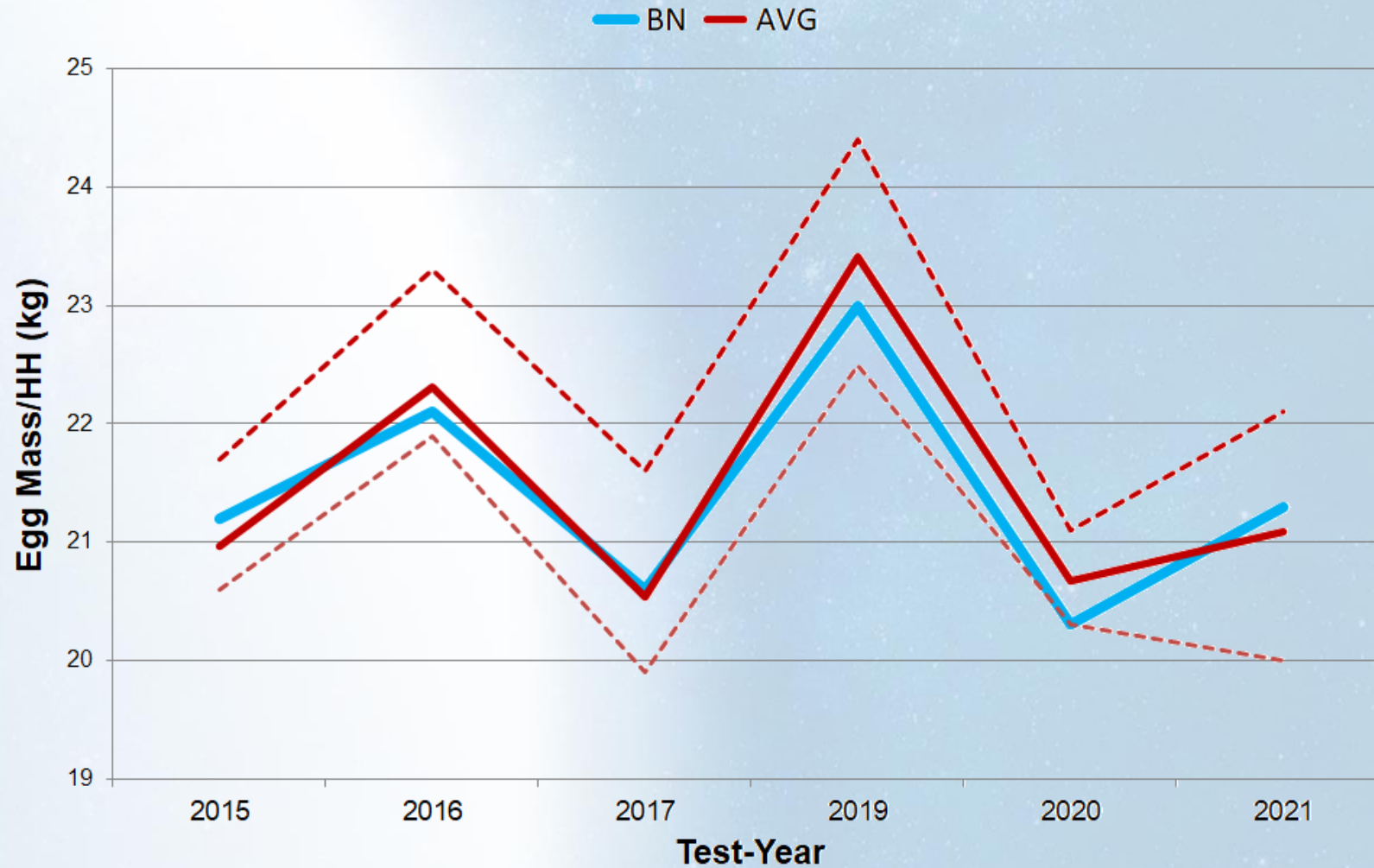
RST Ustrasice

Eggs/HH



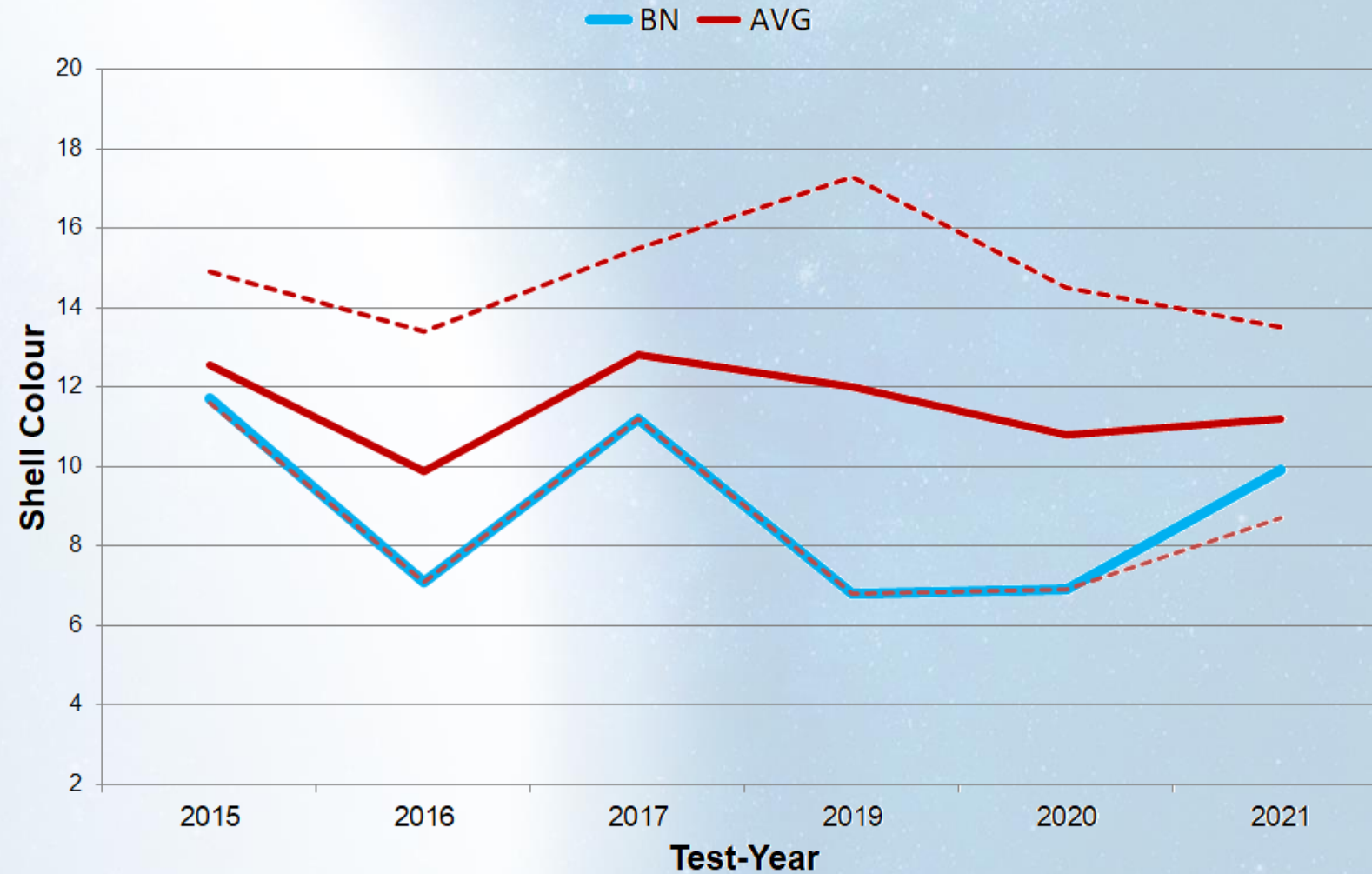
RST Ustrasice

EM (kg)



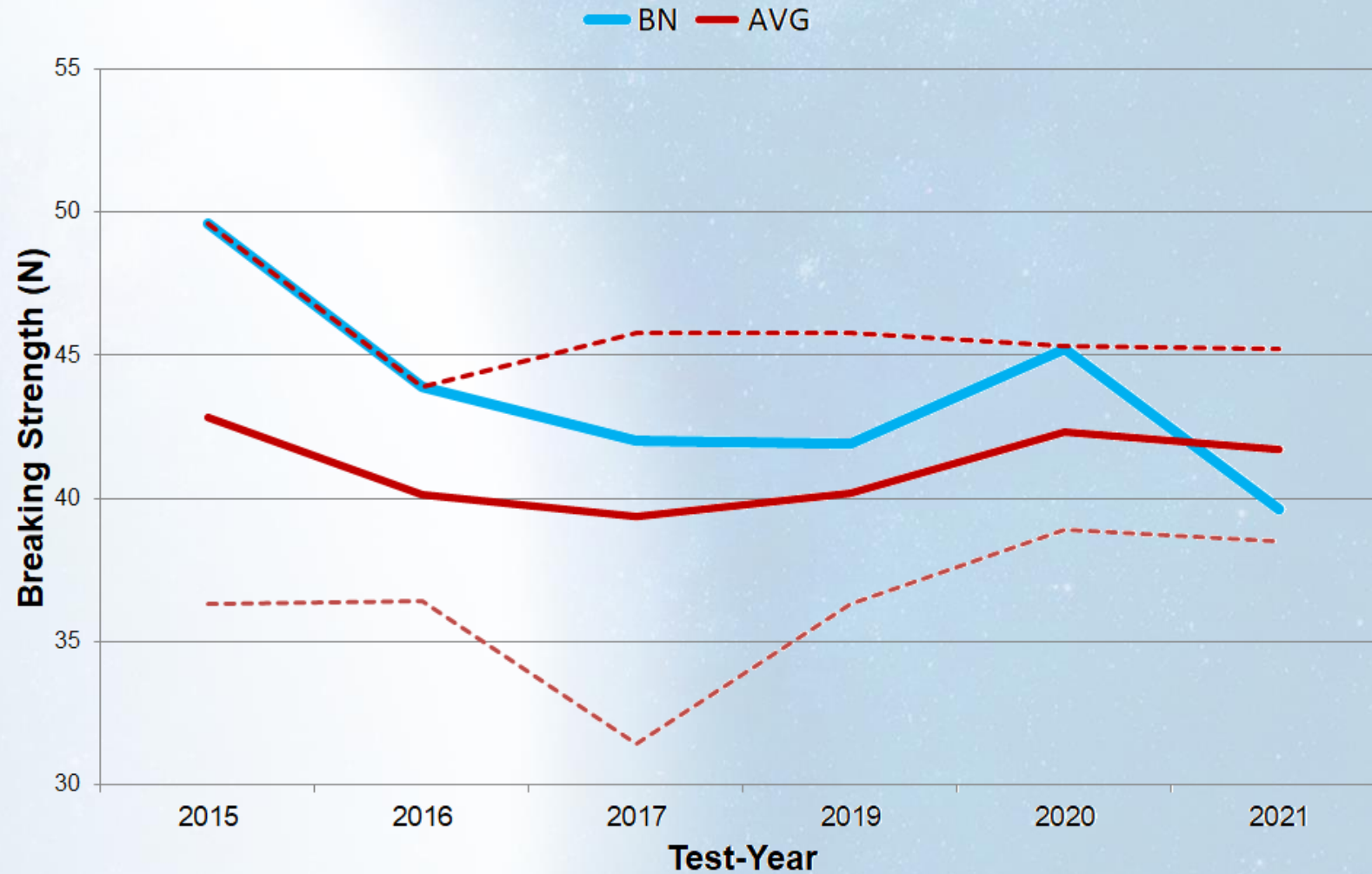
RST Ustrasice

Shell colour



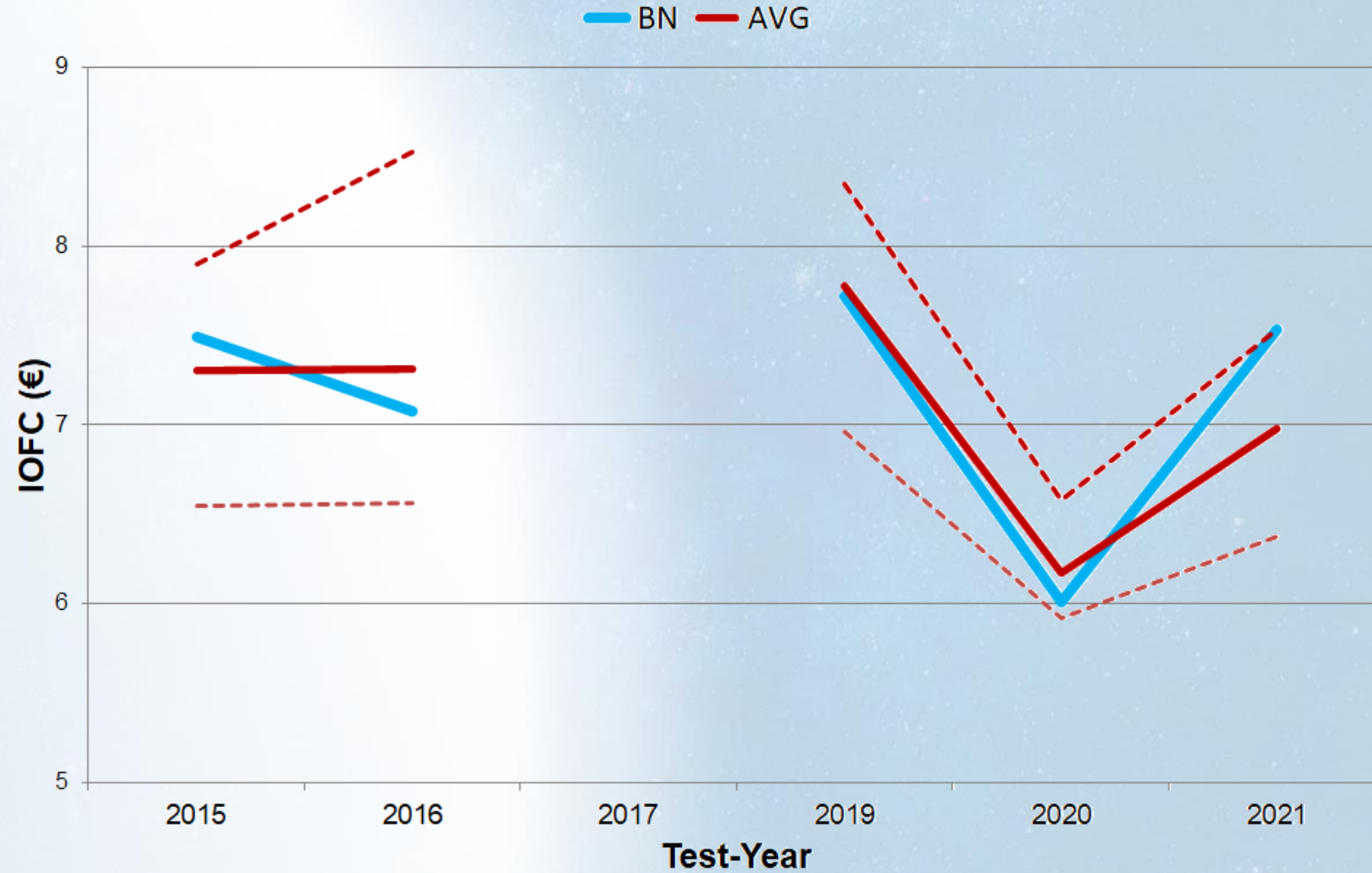
RST Ustrasice

Breaking Strength



RST Ustrsice

IOFC

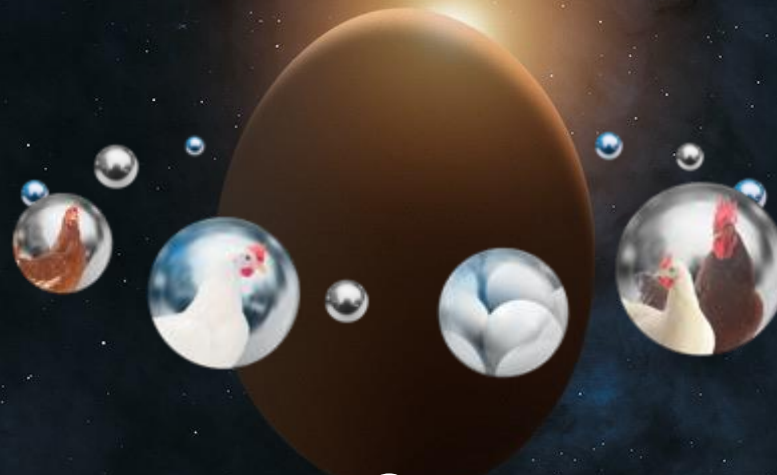


Conclusions

- Learning curve cage-free
- Data collection challenge
- RST good results
- Field data? →



Thank you!



respinola@hn-int.com

H&N International
Making your success the center of our universe



Follow us on LinkedIn
H&N International GmbH



KAI



KAI

Find out more about
KAI farming assistance