



Diets in egg production

Information before making diets

I WANT A GOOD PULLET

Corrections aren't possible in production



I WANT A GOOD PULLET

Corrections aren't possible in production

- On target body weight at 5th, 12th, and 16th week of age.
- Feed intake at 17 weeks
 - Brown: 80 grams / day
 - White: 75 grams / day
- Uniformity: 85%





A

KNOW THE NEEDS

The body weight and the egg mass defined the daily needs of the hen.



B

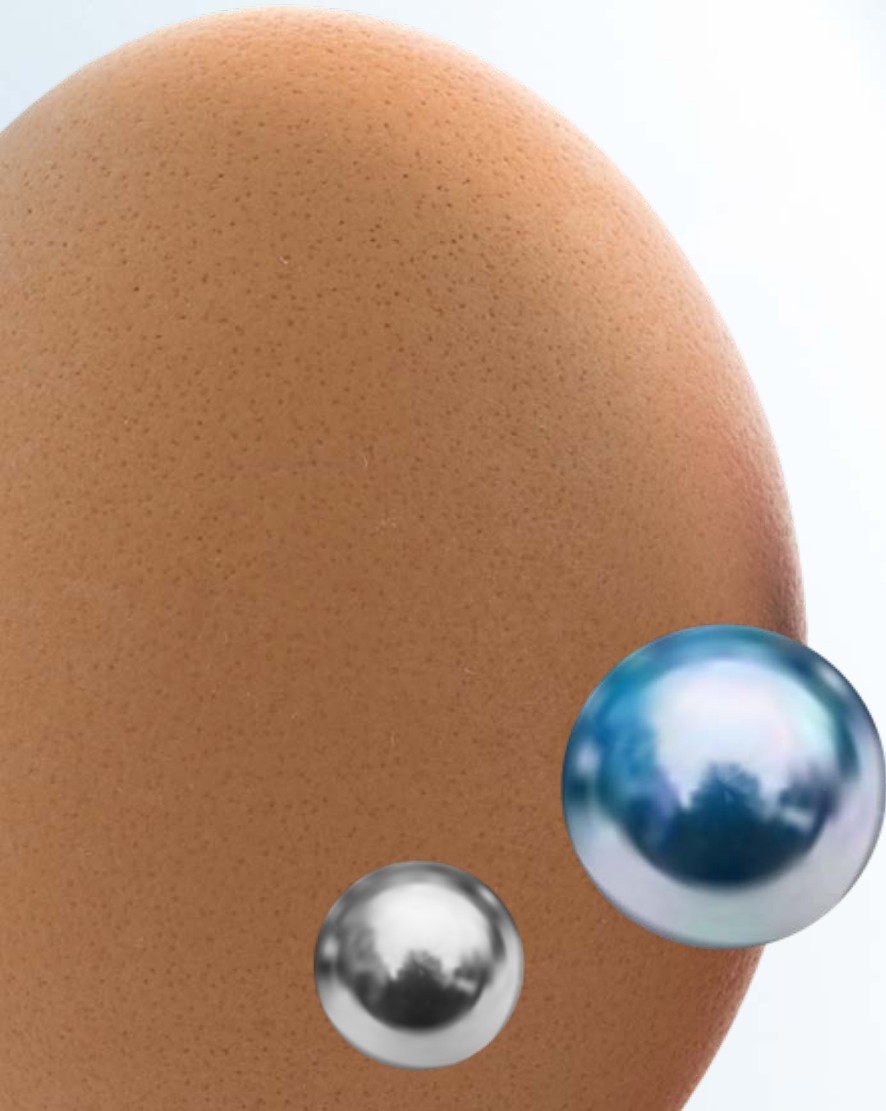
FEED INTAKE

All the layer feeds **MUST** have a feed intake target, a realistic one.



C

ADAPT TO MARKET

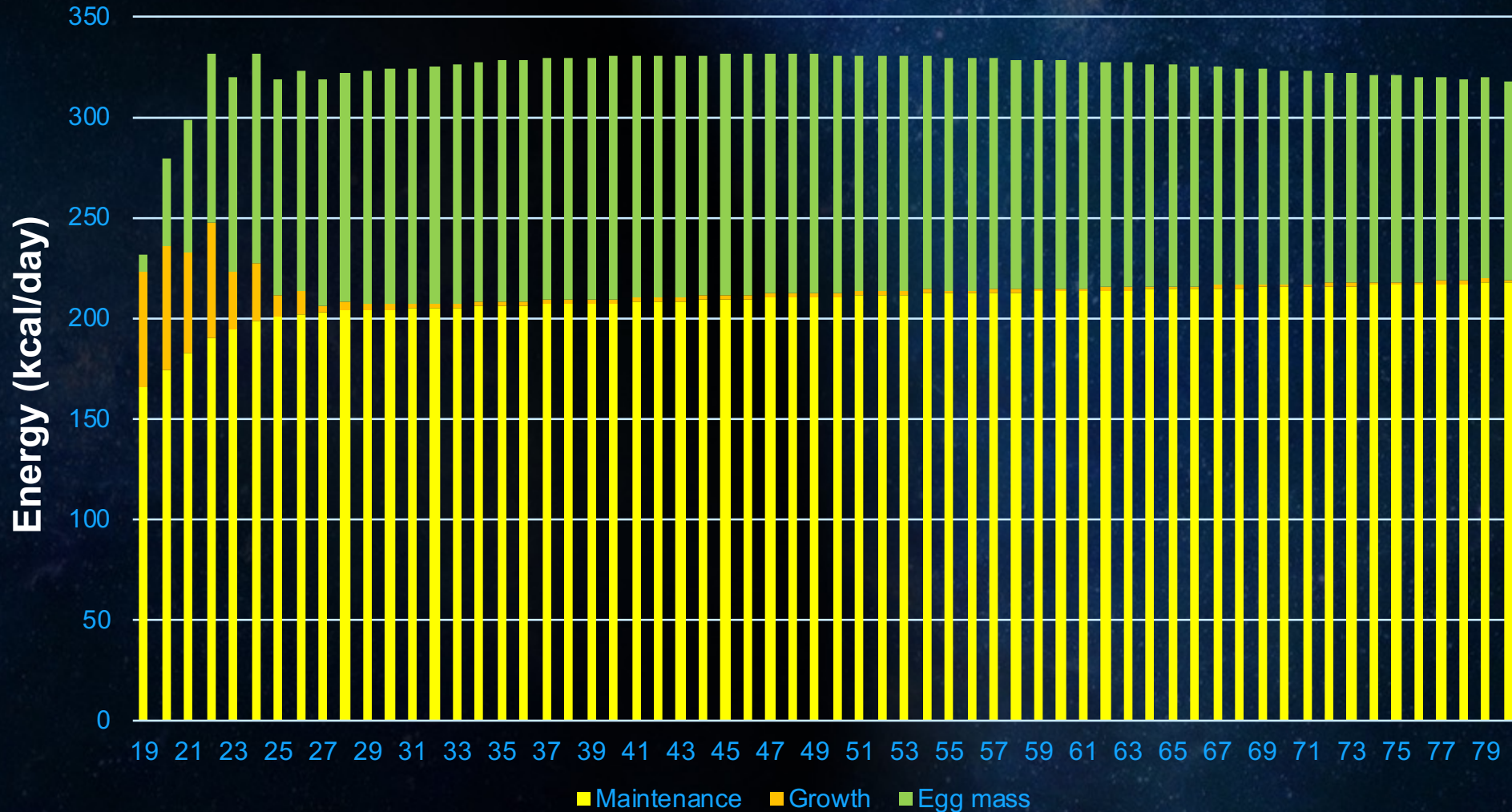




Needs before diet

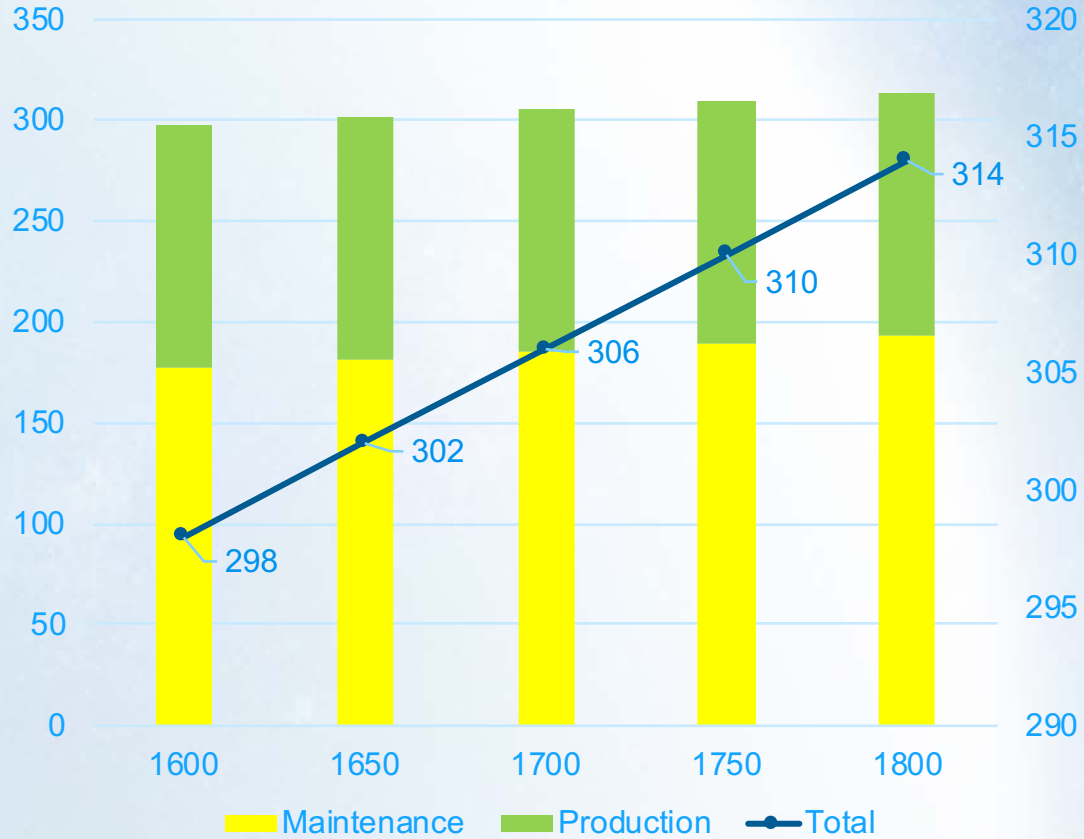
BODY WEIGHT DEFINES ENERGY NEEDS

Energy needs

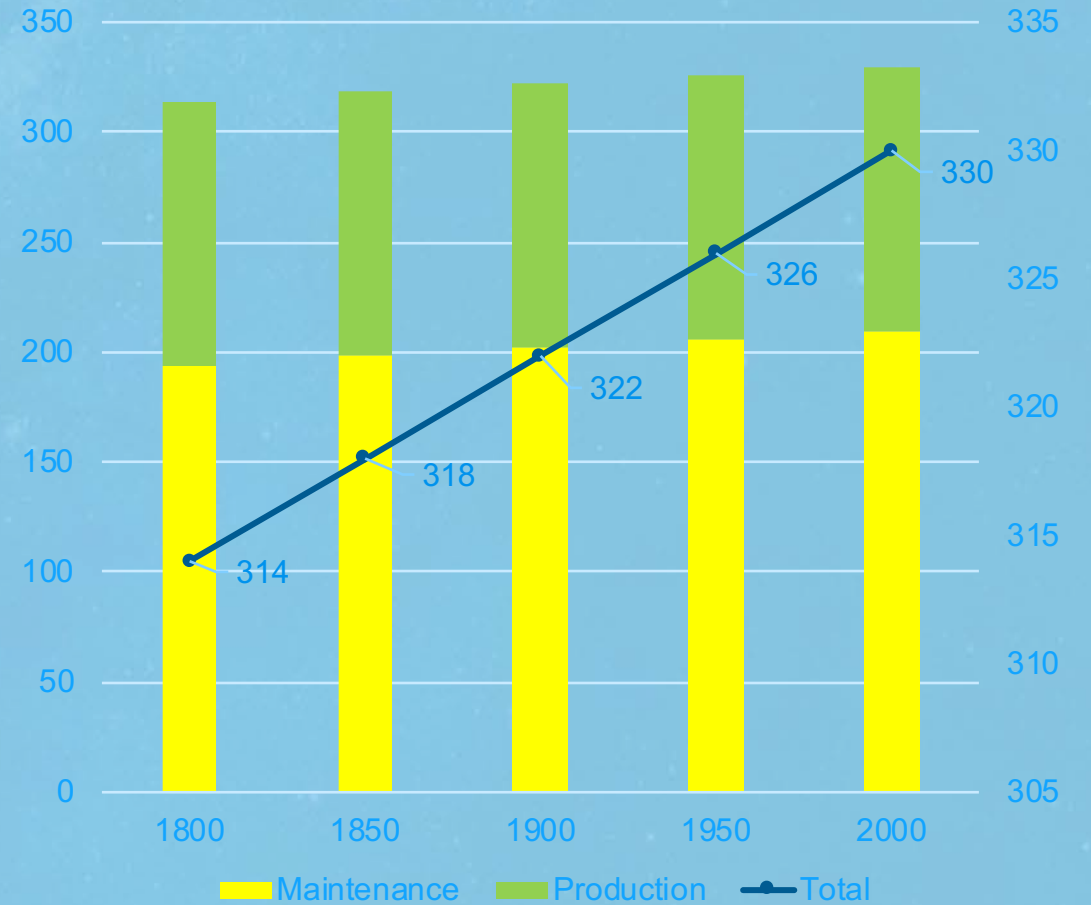


65% of the energy goes to maintenance

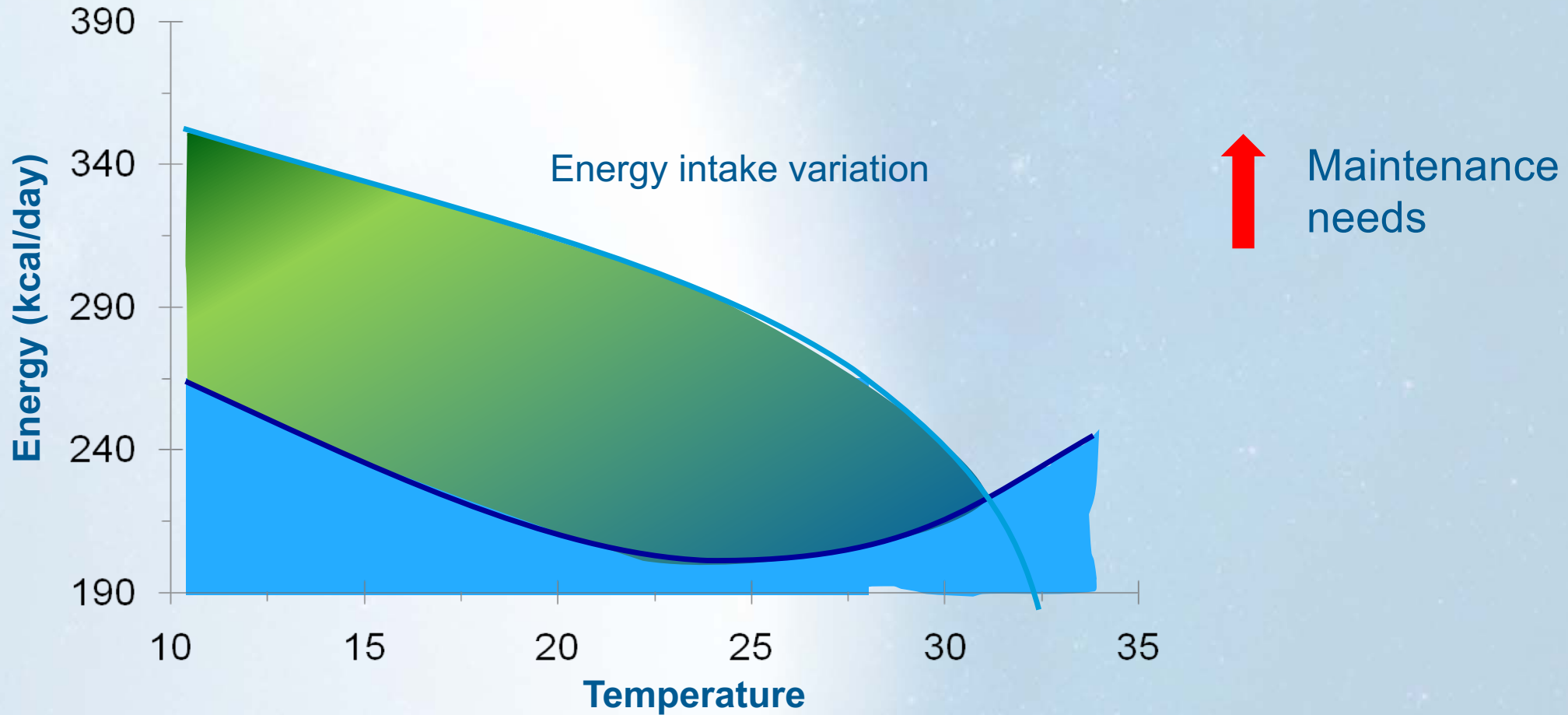
WHITE BIRDS



BROWN BIRDS

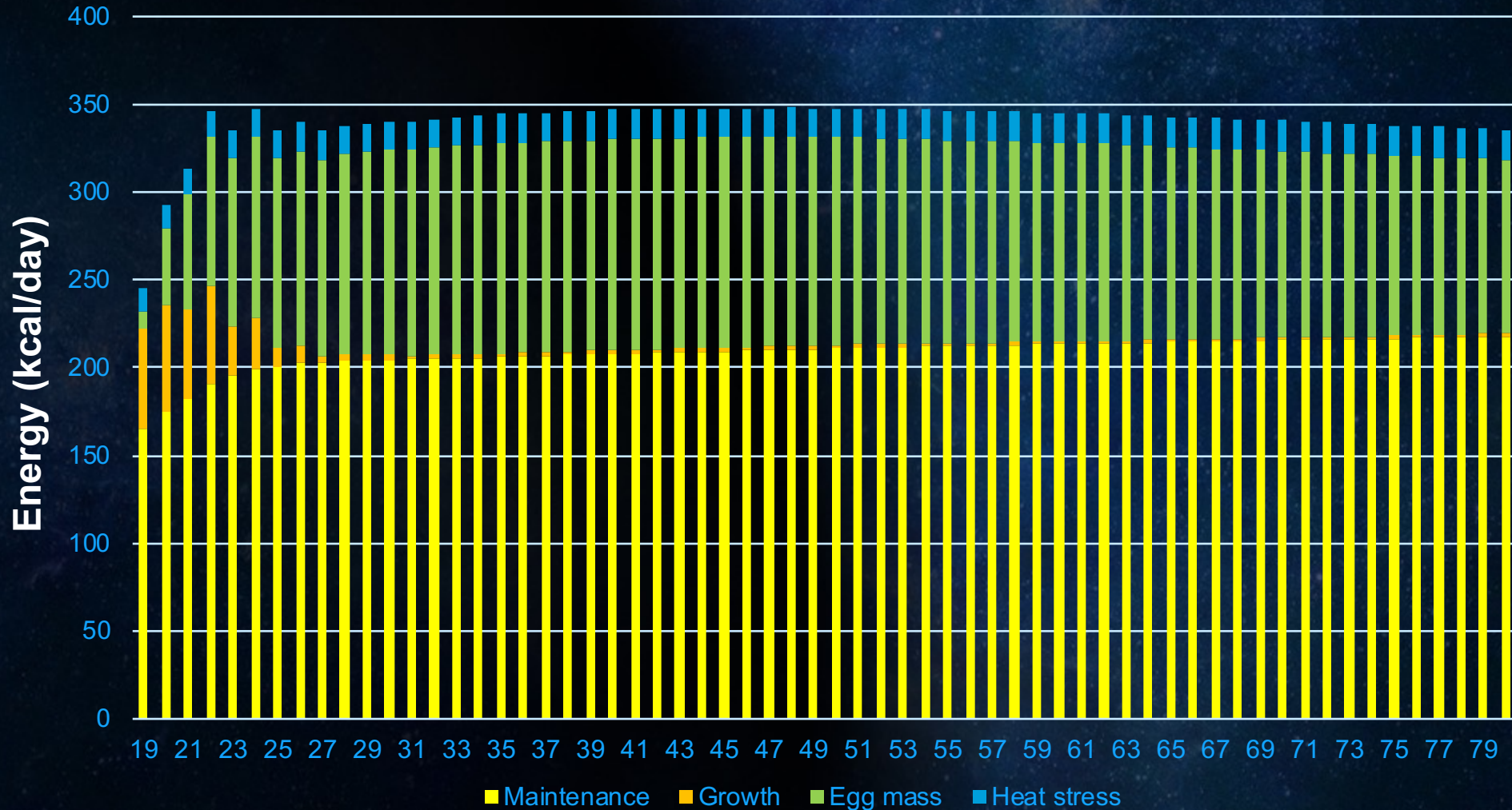


Effect of temperature



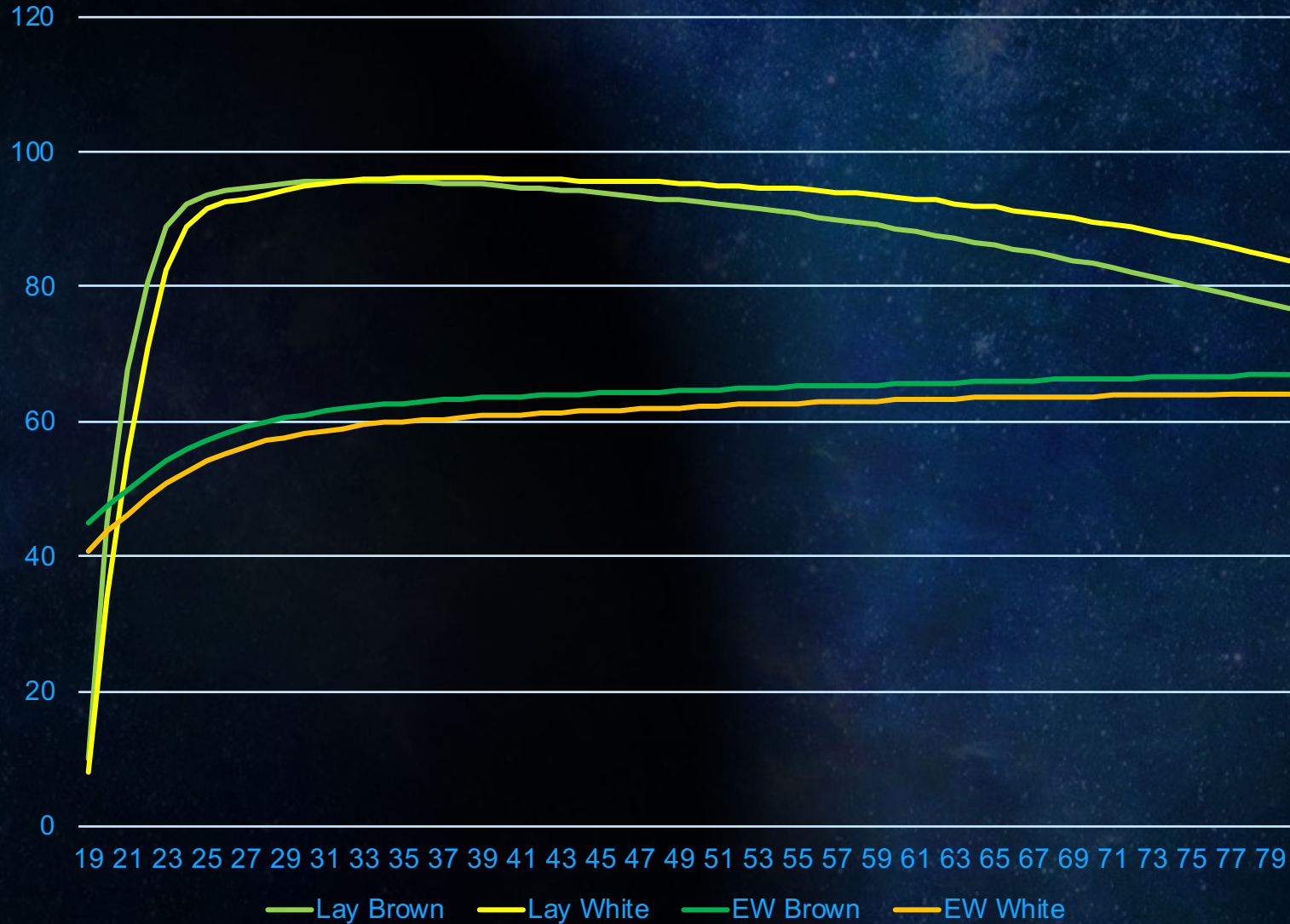
HEAT STRESS NEEDS

Energy needs



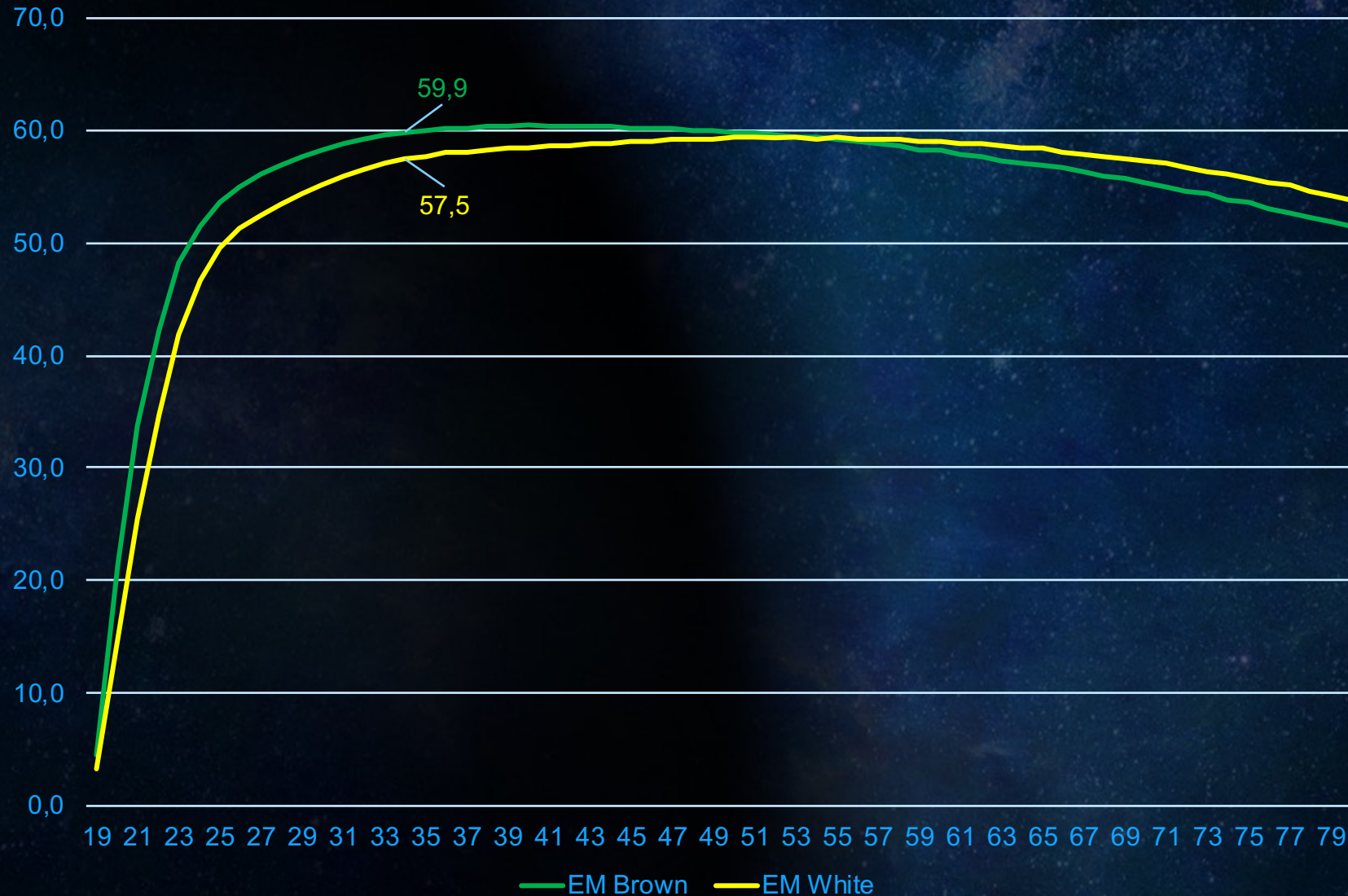
It will reduce the production if we don't compensate the heat stress needs.

PRODUCTION IN LAYER



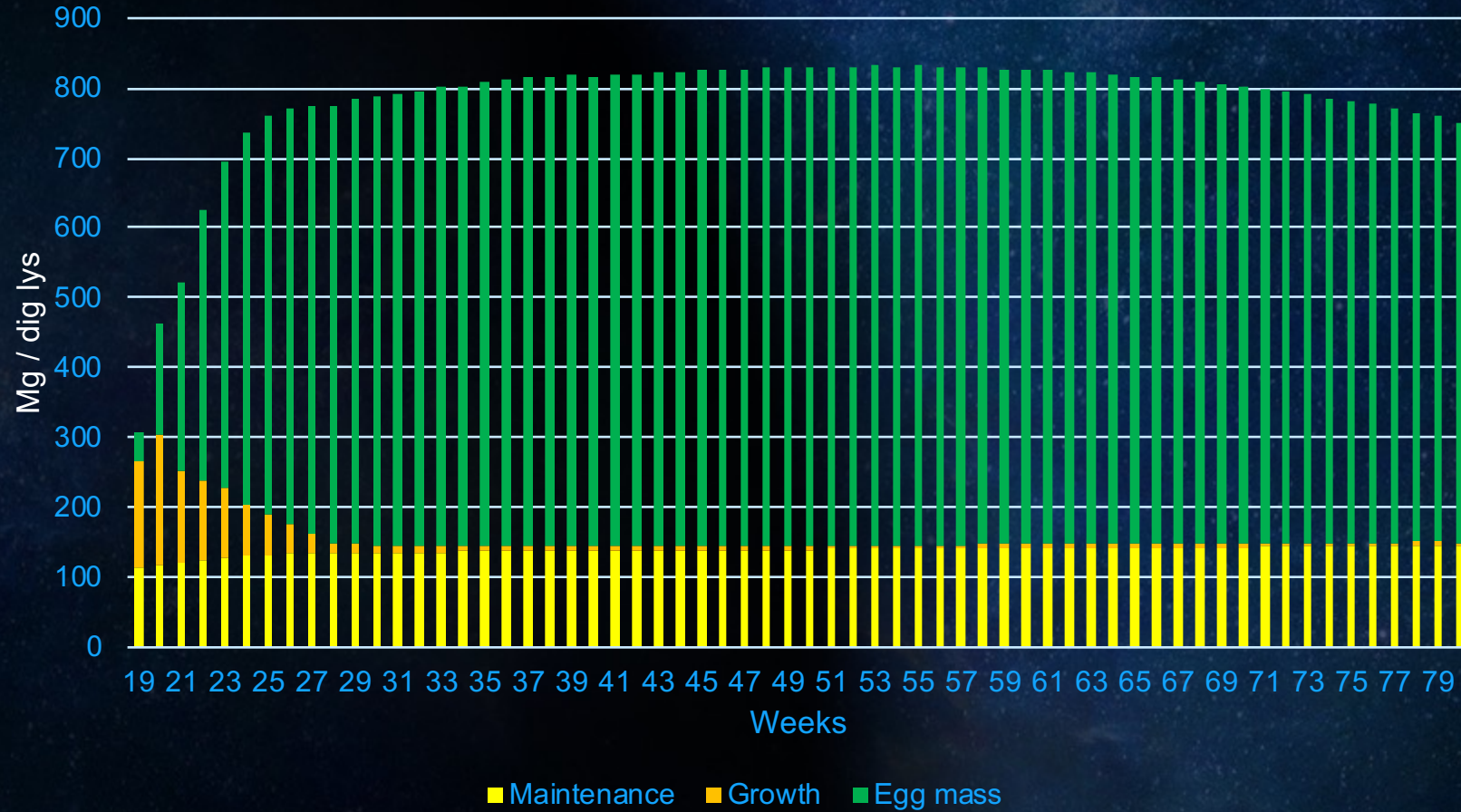
How much is the daily egg mass?

DAILY EGG MASS



The key to the amino acid needs

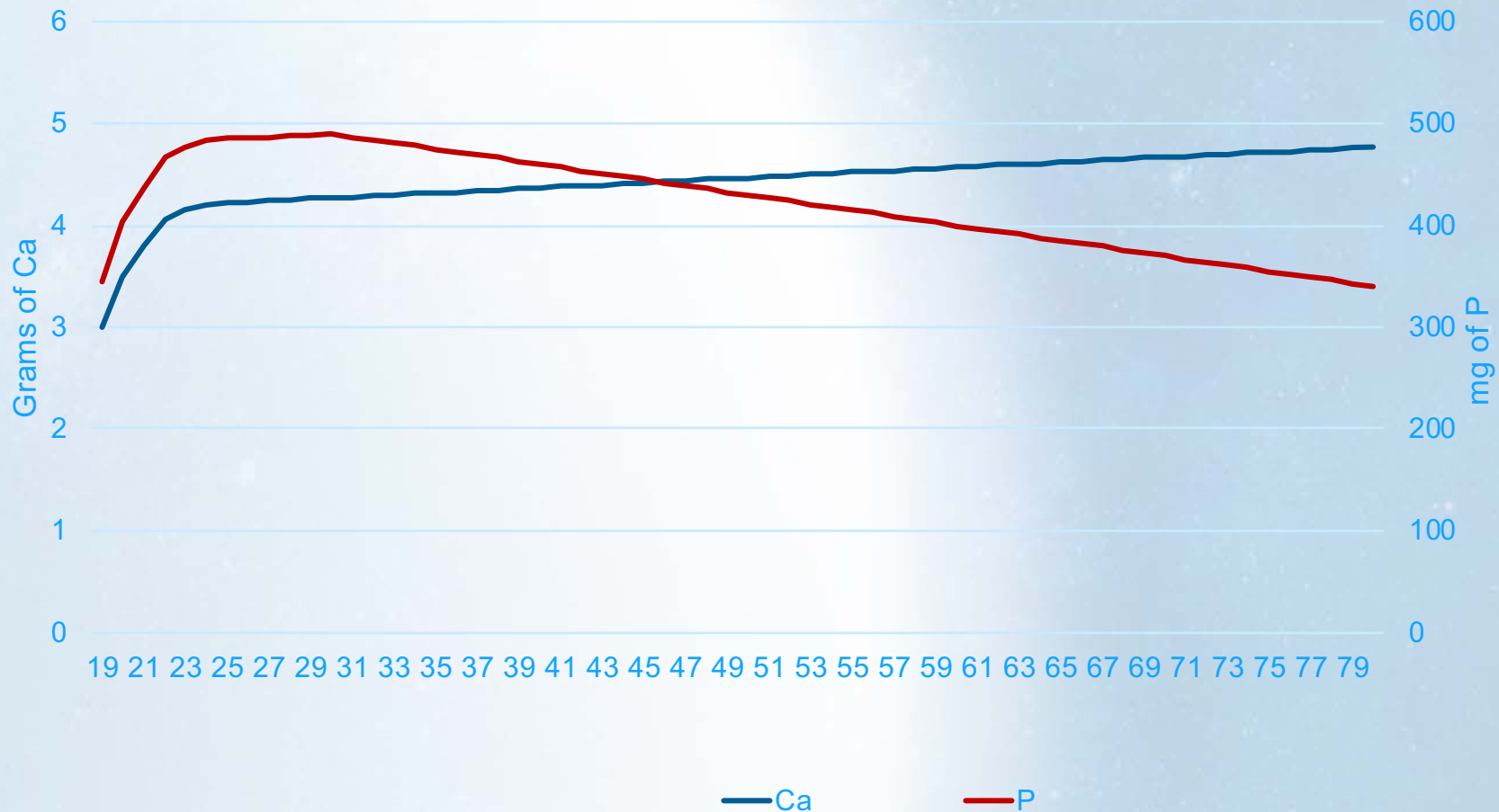
AMINO ACID NEEDS



How much AA for production?

Minerals needs change

Age is determine factor



The background features a large, textured brown egg on the left side. Scattered around it are several smaller, shiny blue eggs. Some of these blue eggs contain images: one shows a white and black chicken, another shows several brown eggs, and a third shows a brown chicken. The background is a dark, starry space.

FEED INTAKE TARGET

A MUST in any layer diet

OPTION 1

	%
Energy	2840
Dig Lys	0.762
Dig Met	0.381
Dig M+C	0.686
Dig Thr	0.533
Dig Trp	0.168

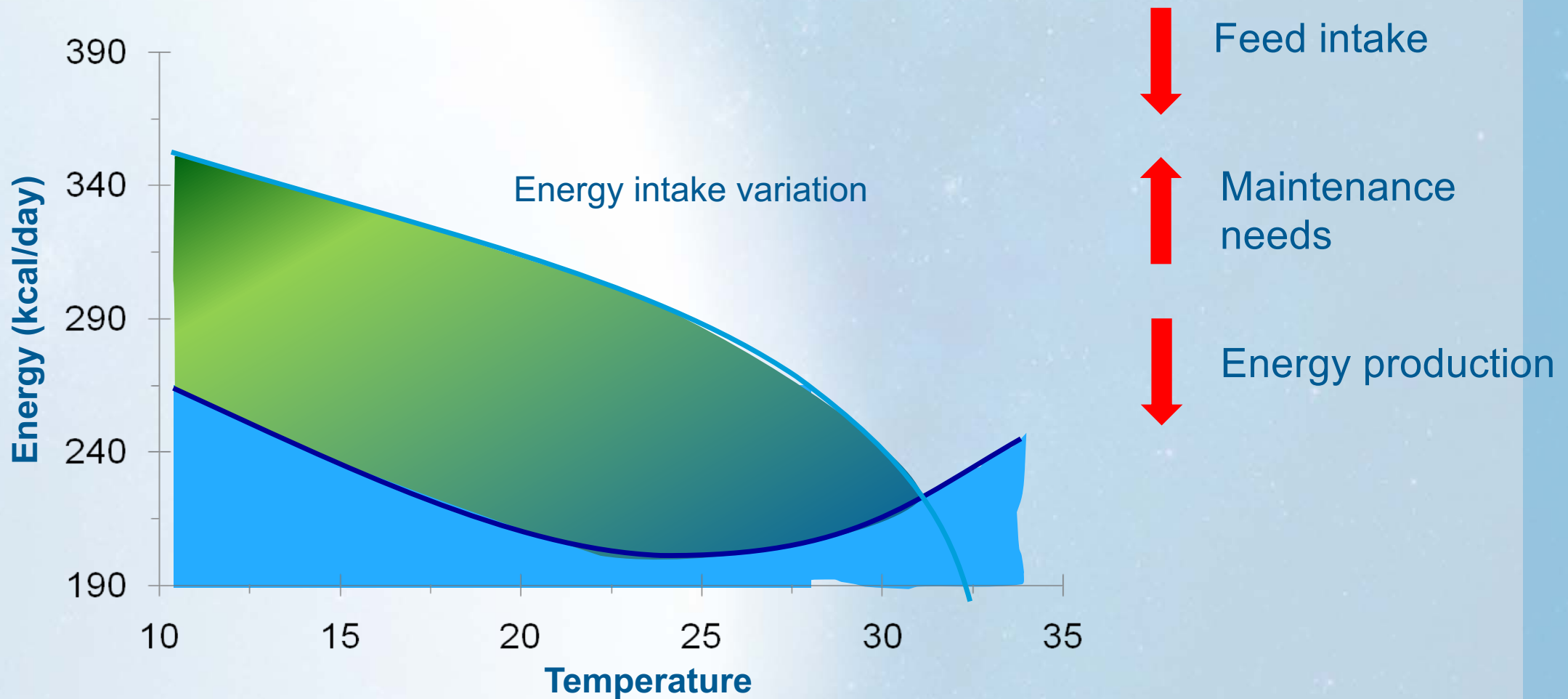
OPTION 2



	%
Energy	2710
Dig Lys	0.727
Dig Met	0.364
Dig M+C	0.655
Dig Thr	0.509
Dig Trp	0.16

Corn - Soya 46% - Soya oil - Wheat bran

Feed intake vs temperature



What are the options?

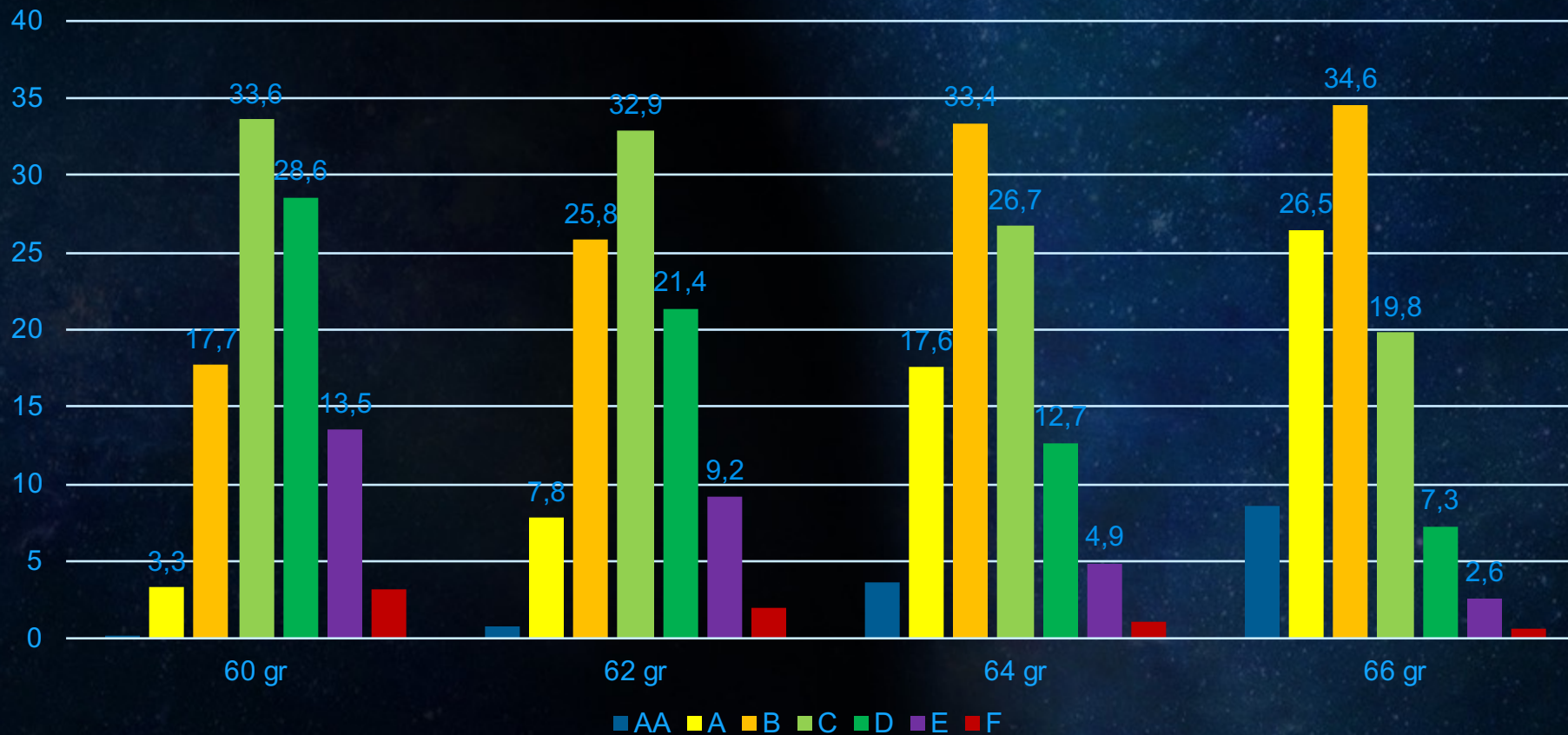
Feed intake		105	110	115
MEn		2970	2835	2715
	mg / hen / day			
Dig Lysine	800	0.762	0.727	0.696
Dig Methionine	400	0.381	0.364	0.348
Dig Met + Cys	720	0.686	0.655	0.626
Dig Threonine	560	0.533	0.509	0.487
Dig Tryptophane	176	0.168	0.160	0.153
Calcium	4000	3.81	3.63	3.48
Av Phosphorus	380	0.36	0.345	0.33

What are the most profitable option?

Feed intake		105	110	115
MEn		2970	2835	2715
	mg / hen / day			
Dig Lysine	800	0.762	0.727	0.696
Dig Methionine	400	0.381	0.364	0.348
Dig Met + Cys	720	0.686	0.655	0.626
Dig Threonine	560	0.533	0.509	0.487
Dig Tryptophane	176	0.168	0.160	0.153
Cost (\$)		402	370	337
Cost per hen (\$)		0.0422	0.0407	0.0387

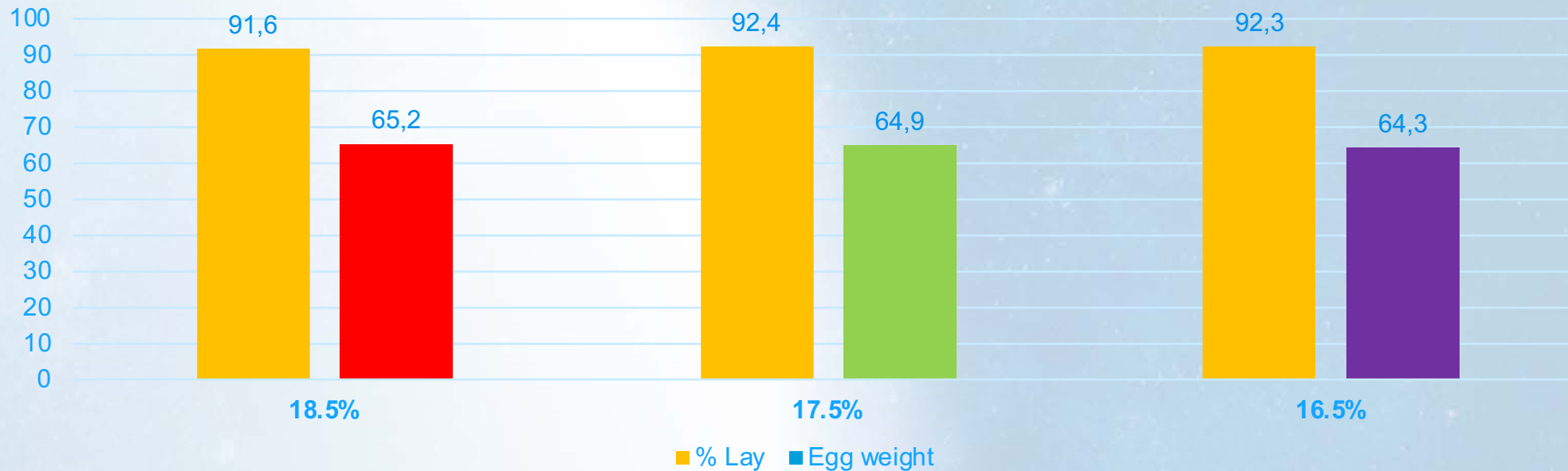
WHAT DO I NEED TO PRODUCE?

Egg grading distribution



Big or small egg isn't enough information.

Produce the egg size you need



Pullet same size at 17 weeks, same energy feed and all 1.8% fat and production from 22 to 50 weeks

Feeding program

	Layer 1	Layer 2	Layer 3
Age (weeks)	22-45	46-70	> 70
Feed intake target (gr)	115	115	115
ME (kcal/kg)	2,730	2,730	2,730
Dig Lys	0.72	0.72	0.69
Dig Met	0.36	0.36	0.34
Dig Met+Cys	0.65	0.65	0.62
Dig Thr	0.50	0.50	0.48
Dig Trp	0.16	0.16	0.15
Dig Ile	0.58	0.58	0.55
Dig Arg	0.75	0.75	0.72
Dig Val	0.63	0.63	0.60
Na	0.16	0.16	0.15
Cl	0.16	0.16	0.15
Ca	3.5	3.75	3.90
P	0.47	0.42	0.37
Dig P	0.33	0.29	0.26

Is BW changing?

Check the egg mass

Adapt to the market

Take home message



DEFINE THE NEEDS OF THE
LAYERS BASED ON BODY
WEIGHT AND EGG MASS



**FEED NEEDS A FEED INTAKE
TARGET**

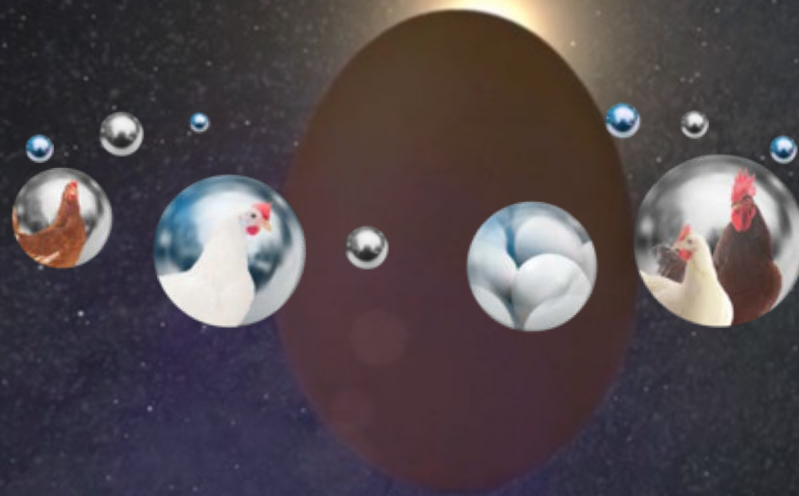


ADAPT THE FEED TO THE
ENVIRONMENTS AND COST.



KNOW WHAT YOUR MARKET
NEEDS TO MAXIMIZE YOUR
PROFITABILITY IN EGG
BUSINESS.

Thank you for your attention



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