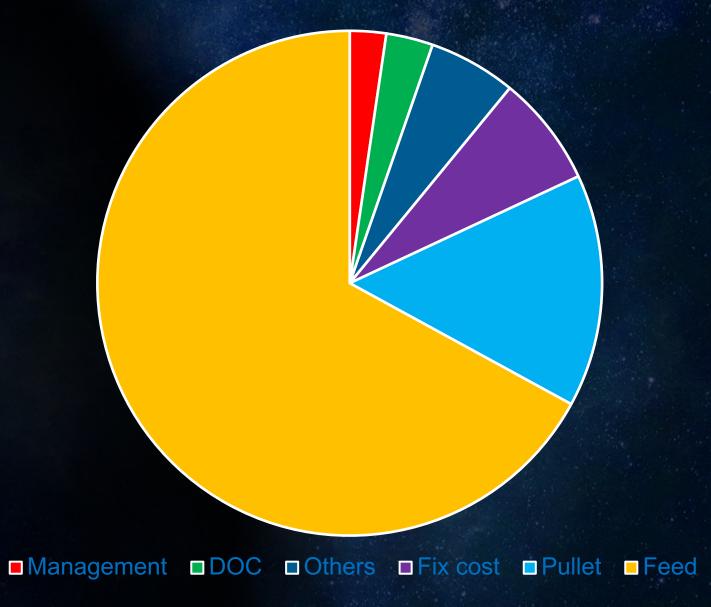




Dr. David Cavero Pintado



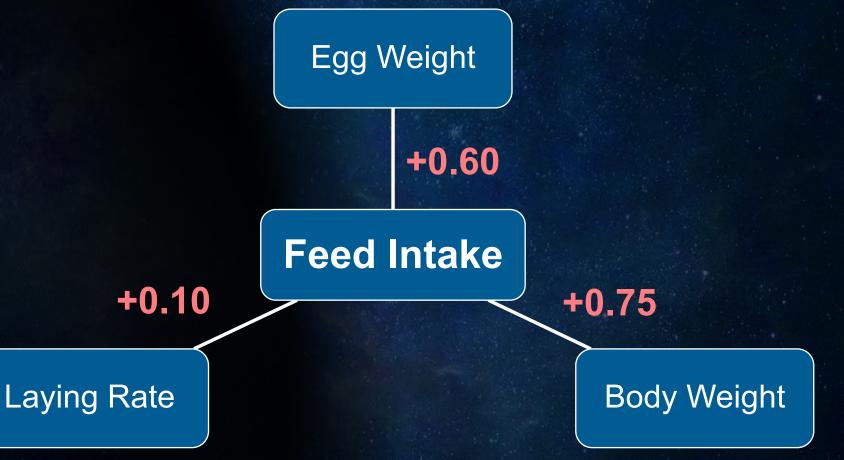




Feed Intake - Genetic Correlations

INTERNATIONAL

Feed Intake: $h^2 \sim 0.3 - 0.4$





Selection for better feed efficiency







- Sufficient feed intake at greatest nutrient demand
- Focus is not only in FCR, but mainly in IOFC
- No special high-density diet Flexible in raw material
- Feed intake according to production



Use of Challenge Feed

Diluted feed - Lower E, Vit., CP, aa

Breeding Farm: separate silos for group cages

Field Test: Use of two different feeds











30 Years ago

Feed: 60 kg FCR 3.0

15 Years ago

Feed: 50 kg FCR 2.5

Today

Feed: 40 kg FCR 2.0

FCR – Feed Conversion Ratio



Difficult to compare



115 g



105 g



FCR

1.98



1.81

So what?

Income over Feed Cost



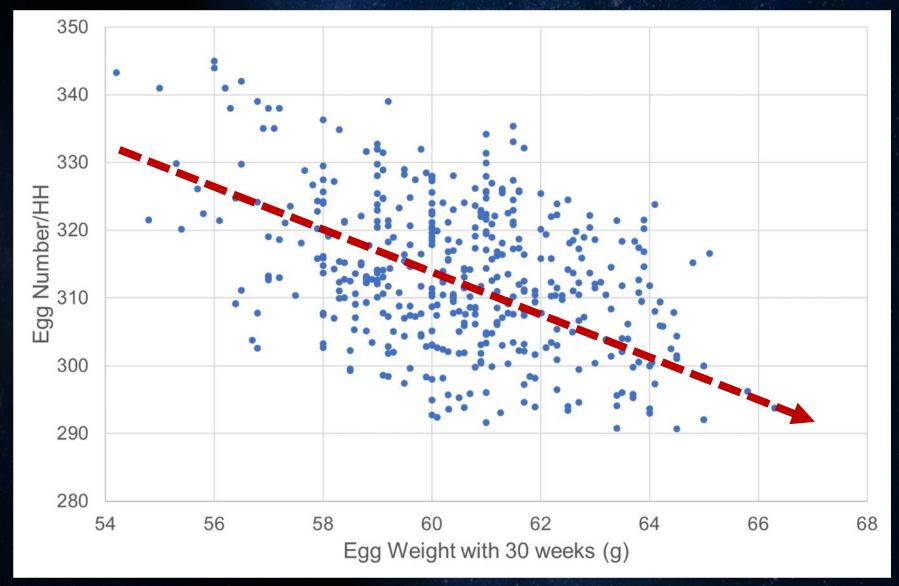
"Standard" Formula:

IOFC = 0.8 x Egg Mass – 0.2 x Feed Consumption

- > Adjust the formula to your condition:
 - √ Feed Cost:
 - Price per kg feed
 - ✓ Income:
 - Egg Price (kg or depending on egg grading)
 - Price of the spent hen











	Lower 25%	Middle 50%	Upper 25%	
BW Rearing	1027	1101	1170	
Prod (20-28w)	68.5	69.7	69.6	
EN 72W	EN 72W 318		323	
EN 80W 362		374	369	
EG	EG 58.6		61.1	
BW 32 w	1,540	1,626	1,706	
Feed Intake	97.2	101.0	102.9	

Let's make a fast exercise at 80w

INTERNATIONAL

Modify EW 1g by Management (Light, Feed)

EW	EN	EM	EM/d	BW 32w
62.4	374	23.35	55.58	1970
63.4	370	23.46	55.85	2050
64.4	366	23.57	56.12	2130

Assumptions: $\pm 1 \text{ g} \rightarrow \text{EN} \pm 4 \text{ \& BW} \pm 80 \text{ g}$





INTERNATIONAL

Modify EW 1g by Management (Light, Feed)

EW	EN	EM	EM/d	BW 32w	FI
62.4	374	23.35	55.58	1970	113
63.4	370	23.46	55.85	2050	115
64.4	366	23.57	56.12	2130	117

Assumptions: ± 1 g → EN ± 4 & BW ± 80 g Feed (Xabier):

4 kcal/50g additional BW

2 kcal/1g additional daily EM





INTERNATIONAL

Modify EW 1g by Management (Rearing, Lighting, Feed)

EW	EN	EM	EM/d	BW 32w	FI	FCR
62.4	374	23.34	55.58	1970	113	2.03
63.4	370	23.46	55.85	2050	115	2.06
64.4	366	23.57	56.12	2130	117	2.09

Assumptions: $\pm 1 \text{ g} \Rightarrow \text{EN} \pm 4 \text{ \& BW} \pm 80 \text{ g}$ Feed (Xabier):

4 kcal/50g additional BW

2 kcal/1g additional daily EM







Payment per EM

Feed Price: 350€/t

- 1. Egg Price (x3.5) → 1.2 €/kg
- 2. Egg Price (x4.0) → 1.4 €/Kg
- 3. Egg Price (x4.5) → 1.6 €/kg



EM	FI	Feed Cost	IOFC-1	IOFC-2	IOFC-3
23.34	113	16.61	11.39	16.06	20.73
23.46	115	16.91	11.24	15.94	20.63
23.57	117	17.20	11.09	15.80	20.51





Payment per Egg Size

	Price 1	Price2	Price3
S (<53g)	0.09	0.09	0.09
M (53-63g)	0.14	0.14	0.14
L (63-73g)	0.16	0.17	0.18
XL (>73g)	0.18	0.20	0.22

EW	EN	%S	%M	%L	%XL
62.4	374	6.5	45.0	46.3	2.2
63.4	370	5.2	39.1	52.0	3.7
64.4	366	4.1	33.4	56.6	5.9





Let's make a fast exercise at 80w - Part III

Payment per Egg Size

	Price 1	Price2	Price3
S (<53g)	0.09	0.09	0.09
M (53-63g)	0.14	0.14	0.14
L (63-73g)	0.16	0.17	0.18
XL (>73g)	0.18	0.20	0.22



EW	EN	%S	%M	%L	%XL	IOFC-1	IOFC-2	IOFC-3
62.4	374	6.5	45.0	46.3	2.2	38.33	40.22	42.12
63.4	370	5.2	39.1	52.0	3.7	38.33	40.53	42.72
64.4	366	4.1	33.4	56.6	5.9	38.30	40.80	43.30



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