



Crowne Plaza Northwood, Dublin

25th - 27th May 2016



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FEEDING THE FINISHING PIG

Dr Violet Beattie

Devenish



Department of

**Agriculture and
Rural Development**

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Kintra Fordèrin**



DEVENISH™
Beyond Nutrition



- 60% of feed cost is in finishing
- 0.1 FCR → around €10/tonne feed cost
or
→ 2c/Kg
- 0.1 FCR → 5%



Two Studies

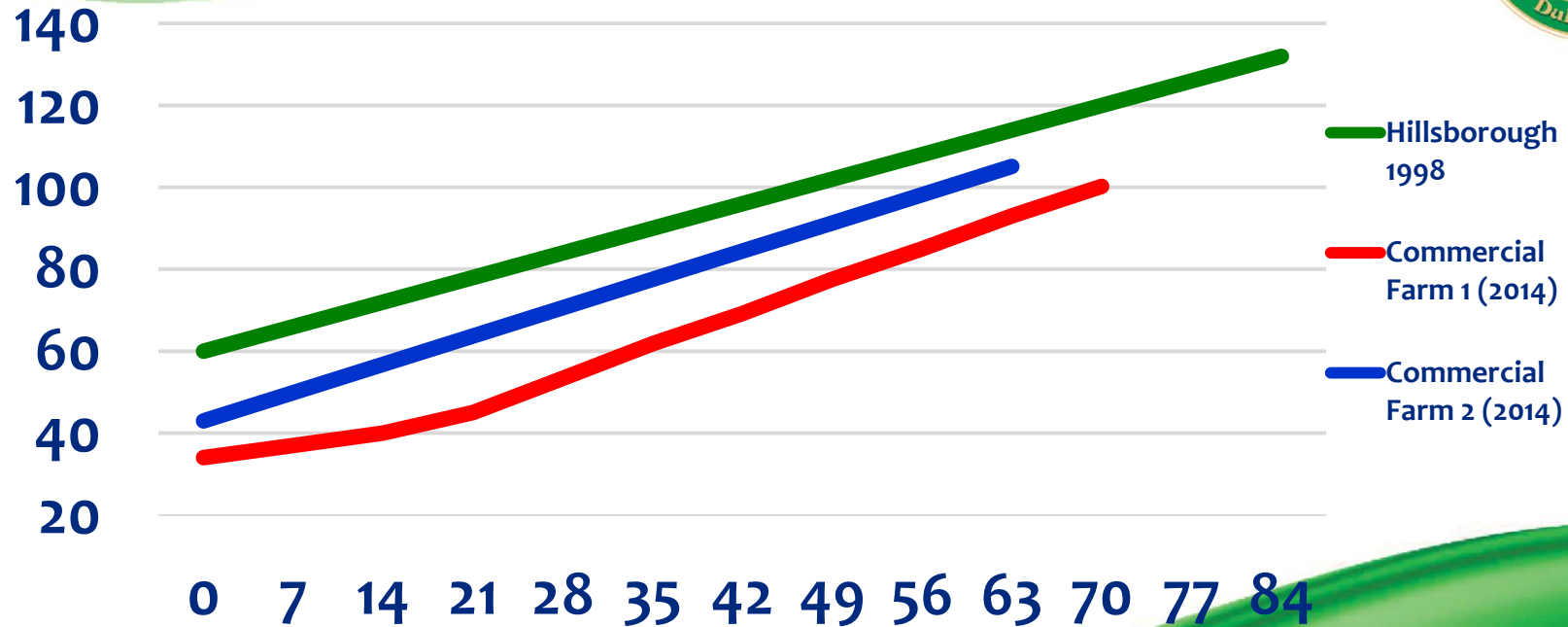
- Pig weight & diet change - Performance & change of diet
Variation & change of diet



PERFORMANCE AND CHANGE OF DIET



Weight with days in finishing





Methods

Five treatments

Eight replicates

15 pigs in pen balanced for weight and gender

Diet

- Grower	CP	18.5%	Lysine 1.25%	DE 14.6 MJ/kg
- Finisher	CP	17.0%	Lysine 1.0%	DE 13.8 MJ/kg



Treatments

	Transfer weight from Grower to Finisher
40	40kg
50	50kg
60	60kg
70	70kg
+ve	Only grower – no change of diet



Performance of pigs moving from grower to finisher at different weights

	40	50	60	70	+ve	Sed	Quad
Feed Intake (g/d)	2454	2475	2567	2495	2458	36.38	NS
Growth rate (g/d)	975	998	1061	1031	1048	21.95	<0.05
FCR	2.52	2.48	2.42	2.41	2.35	0.055	<0.01
P2 (mm)	13.8	13.9	13.2	14.3	13.8	0.46	NS

Nutrient intake comparison



	40	+ve
Growth Rate (g/d)	975	1048
FCR	2.52	2.35

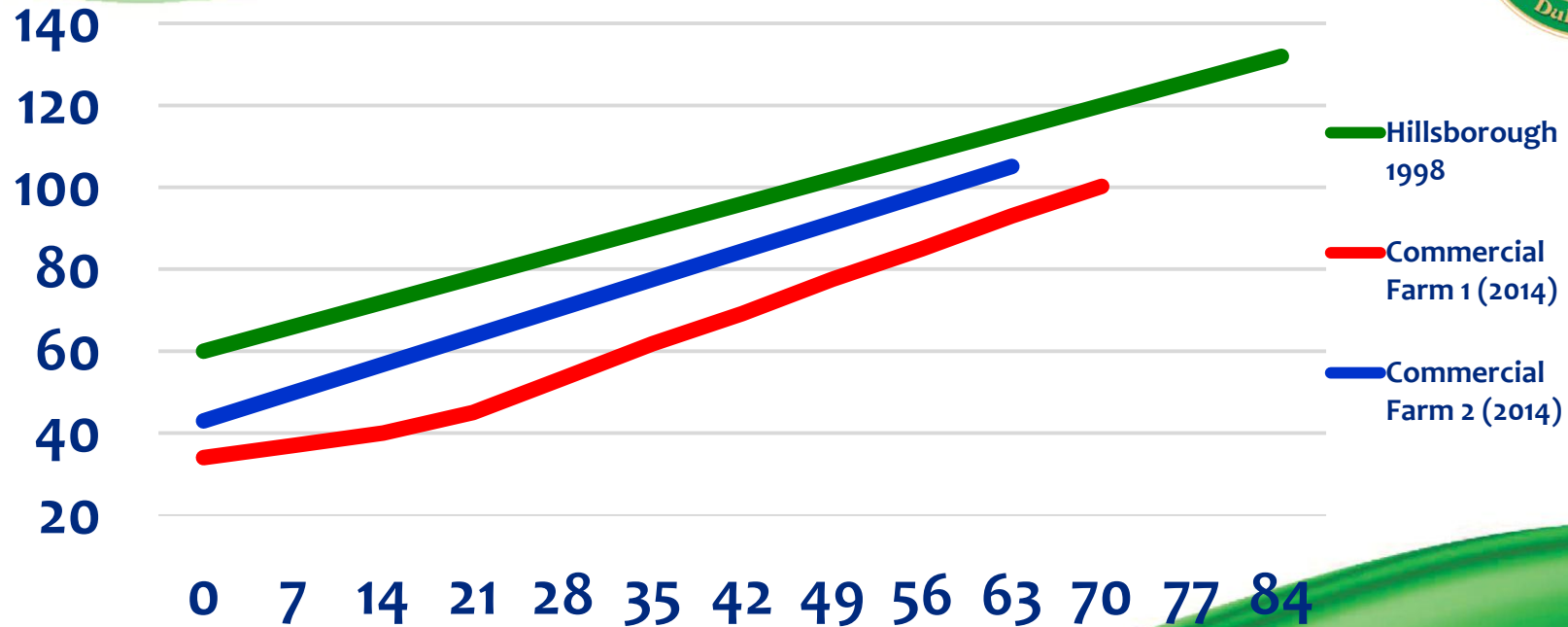
Nutrient intake comparison



	40	+ve
Growth Rate (g/d)	975	1048
FCR	2.52	2.35
Feed intake (g/d)	2454	2458
Energy Intake KJ/d)	33.8	35.9
Lysine Intake (g/d)	24.5	30.7



Weight with days in finishing



Economics



	40	50	60	70	+ve
Start Wt. (kg)	38.77	35.87	36.39	36.45	37.28
Diet change	38.77	50.18	62.49	72.69	NA
End Wt. (kg)	115.4	115.8	120.4	117.8	119.12
Grower					
Growth Rate (g/d)		1101	1135	1060	1048
FCR		1.85	1.84	2.11	2.35
<u>Finisher</u>					
Grower rate (g/d)	975	993	1040	1018	
FCR	2.52	2.58	2.64	2.64	

Economics



	40	50	60	70	+ve
Start Wt. (kg)	38.77	35.87	36.39	36.45	37.28
Diet change	38.77	50.18	62.49	72.69	NA
End Wt. (kg)	115.4	115.8	120.4	117.8	119.12
Grower					
Growth Rate (g/d)		1101	1135	1060	1048
FCR		1.85	1.84	2.11	2.35
Finisher					
Grower rate (g/d)	975	993	1040	1018	
FCR	2.52	2.58	2.64	2.64	
Cost/kg gain	60.5c	59.7c	59.1c	60.5c	63.5c

* €30 differential between grower and finisher

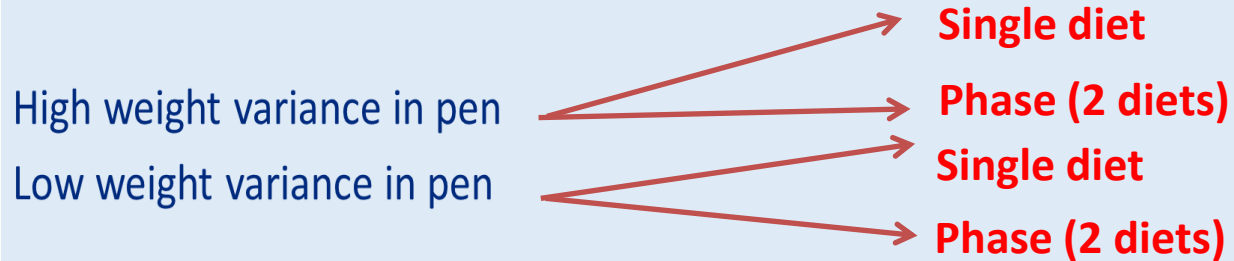


VARIATION AND CHANGE OF DIET



Design

Factorial design:



Single diet: CP 17%, Lysine 1.0%, DE 14.0 MJ/kg

Phase diet: 12-18 wks CP18%, Lysine 1.1%, DE 14.2 MJ/kg

18 to slaughter CP16%, Lysine 0.9%, DE 13.8MJ/kg

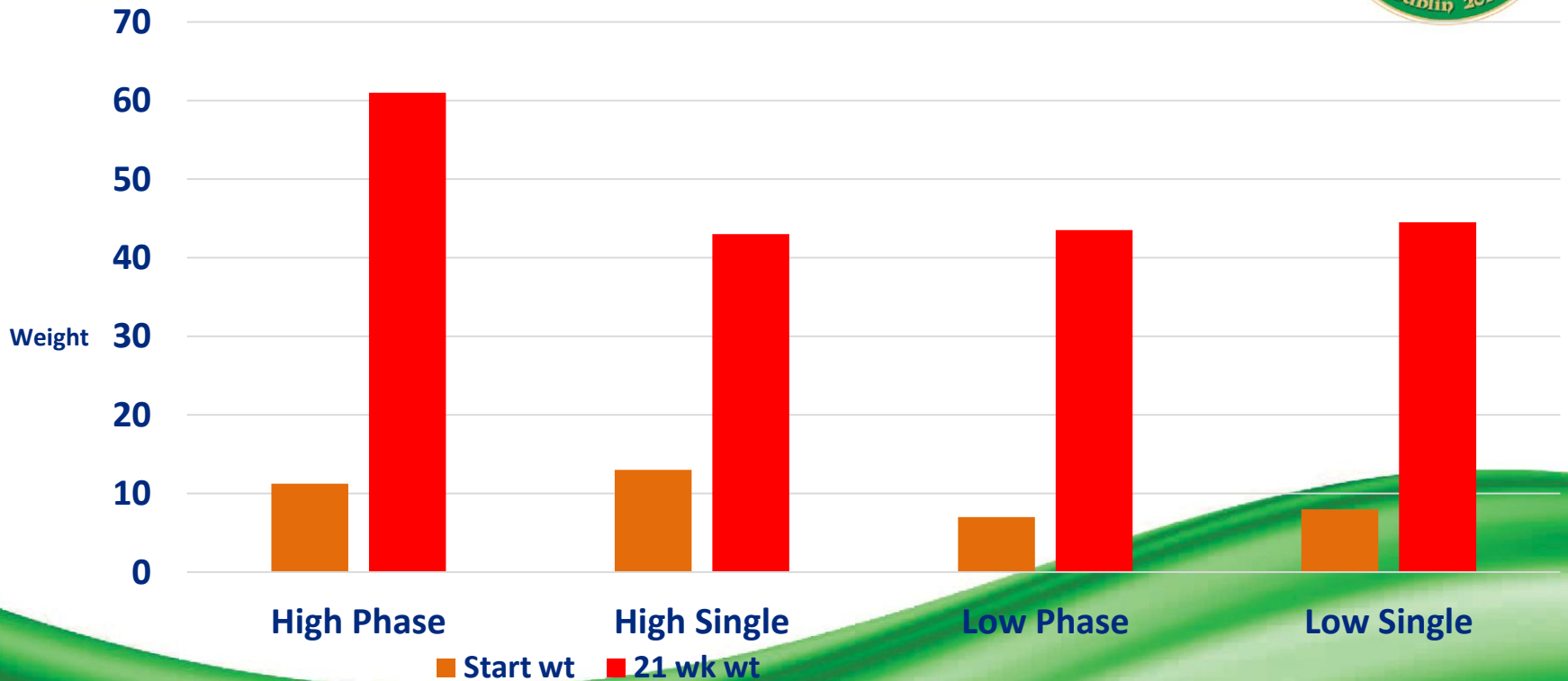


Performance of pigs on single or two phase diets with high or low weight variance

	Phase (2 diets)		Single Diet		S.e.d.	P
	High weight variance	Low weight variance	High weight variance	Low weight variance		
12 week Wt. (kg)	40.8	40.9	41.3	40.5		
Final Wt. (kg)	116	114	113	117	0.231	NS
Feed Intake (g/d)	2231	2136	2190	2195	61.69	NS
Growth Rate (g/d)	910	893	896	922	24.94	NS
FCR	2.45	2.40	2.45	2.38	0.046	NS



Variation using single or phase diets



Conclusions



- It pays to feed grower to 60 kg liveweight
- Diet change does not reduce variation

ACKNOWLEDGEMENTS



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