Producing Pigmeat Sustainably

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World Population

- 1960 3 Billion people
- Currently over 7 Billion
- 9 billion people in 2050



3 pillars of Sustainability





Who wants to be a millionaire



 Which one of the following gasses contribute most to Irelands Agricultural GHGs



AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

Ammonia emissions profile







> Is the pigmeat production chain sustainable?

> How can we prove this?

> Is this important in the marketplace?????



Sustainability of Food Chain



Farm





Figure 6.13: Total GHG fluxes of Pork Production in kg CO_{2-eq} per kg Pork by EU member states and Greenhouse Gases



Future market access

- Sustainability will be more of an issue in the future:
- Carbon footprint calculations vary depending on what you include
- Study in 2017 had a GWP of 3.5 kg CO₂ eqivalent per kg pigmeat.



How can we show the production chain is sustainable?

- The Carbon Trust has independently validated a model on the beef side,
- Teagasc PDD linked with Bord Bia & The Carbon Trust,

 Work was done to develop a C Navigator tool for Irish pigmeat production



Input items





Suggested Report

Bord Bia

Irish Food Board

Farm Name and ID	Joe Bloggs - ZX0058	
NPITS Herd Number	ZX0058	0 2
Date of questionnaire	?-	
Footprinting Year	2015	

Total Number of farms in database	2	

Emissions

	Selected farm	Average	Ranking
Emissions (kg CO2e per kg liveweight)	5.36	5.87	Top 25%



Diet component shown on the

	Selected farm	Average	Ranking	
Kg of Feed per Kg of Carcase	3.39 kg	average e.g. 3.5	below average	



Why should we do this?

- 1. To help compete in the marketing of pigmeat
- 2. To show the C footprint of pigmeat to consumers
- 3. Demonstrate that efficient production systems are good for the environment



2.5 Tonne Sow – ? Tonne Feed

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Cogasc	PIG RECORDING SYSTEM on e-PM Pig Detailed Integrated Herd Report						
Farmer:					Advis	or:	
Farm Code:						Date:	24/34/2013
							TARGETS
PERIOD FROM PERIOD TO NUMBER OF WEEKS		301222111 29632212 13.0	30530112 28062112 13.0	29/06/2012 27/09/2012 13/0	2609/2012 211/2/2012 13.5	11102010 2002010 812	
KEY PERFORMANCE INDICATORS	-	_			4490		
NO. PIGS PRODUCED / SOW / YEAR		30	32.2	31.7	21.4	2140	28
PIG NEAT PER SOW PER YEAR Kg		2295	2286	2093	7,69	2.45	15
TOTAL FEED PER SOW PER YEAR TOWNES	-	1.0	14	1,10			
STOCKS AND BALANCES							
TOTAL OPENING STOCKS		5088	4854	5073	.5263	5068	
TOTAL CLOSING STOCKS		4354	5073	5260	5195	\$195	
TOTAL BALANCE		0	-32	4	15	-13	
SON BALANCE		0	2	0	6	2	
PICLET BALANCE		0	-15	4	-2		
WEANER BALANCE		0	0	0	4	4	
FINSHER BALANCE		-0	4	0	21	SK.	
PRODUCTION							
AVERACE HERD SIZE		351.9	355	360.4	3482		
ADJUSTED HERD SIZE		2343	351.9	355	360,4		
AVERAGE MADEN GLTS	5	213	19.1	16.6	193		9
SON CLLING	5	39.5	39.4	41.1			11
SOW MORTALITY	5	3.4	1.1	33	21	1	25
LA ALTO APPLIED DED WEEK		33	32	27	2	1	3
NO GILTS SERVED PER WEEK		17.1	122	15.	5 18	9	17.1
COLUMN STORY STORY WAS A		Mad a					

Target: to produce 2 tonne pigmeat per sow from 7 tonne feed in 2012

<u>In 2021:</u>

- 2,549kg pigmeat per sow
- 8,815kg feed (3.46)



Pigs produced per sow per year from 2000, 2010 and 2021

YEAR	2000	
Pigs Produced/Sow/Year	21.6	
Average LW at sale kg	90.1	
Average DW at sale kg	68.1	
Kg Pigmeat /sow / year kg	1,471	
Total feed /sow / year	5,385	
Kg of Feed per kg of Pigmeat	3.66	

Source Teagasc Profit Monitor



Pigs produced per sow per year from 2000, 2010 and 2021

YEAR	2000	2010	
Pigs Produced/Sow/Year	21.6	23.9	
Average LW at sale kg	90.1	103.6	
Average DW at sale kg	68.1	78.9	
Kg Pigmeat /sow / year kg	1,471	1,886	
Total feed /sow / year	5,385	6,966	
Kg of Feed per kg of Pigmeat	3.66	3.69	

Source Teagasc Profit Monitor



Pigs produced per sow per year from 2000, 2010 and 2021

YEAR	2000	2010	2021
Pigs Produced/Sow/Year	21.6	23.9	28.1
Average LW at sale kg	90.1	103.6	118.4
Average DW at sale kg	68.1	78.9	90.7
Kg Pigmeat /sow / year kg	1,471	1,886	2,549
Total feed /sow / year	5,385	6,966	8,815
Kg of Feed per kg of Pigmeat	3.66	3.69	3.46

Source Teagasc Profit Monitor



Thanks for your attention!!

Any Questions???



