

QVIS Comparison Report



Littleton Farm
28/04/2017

Altech[®]

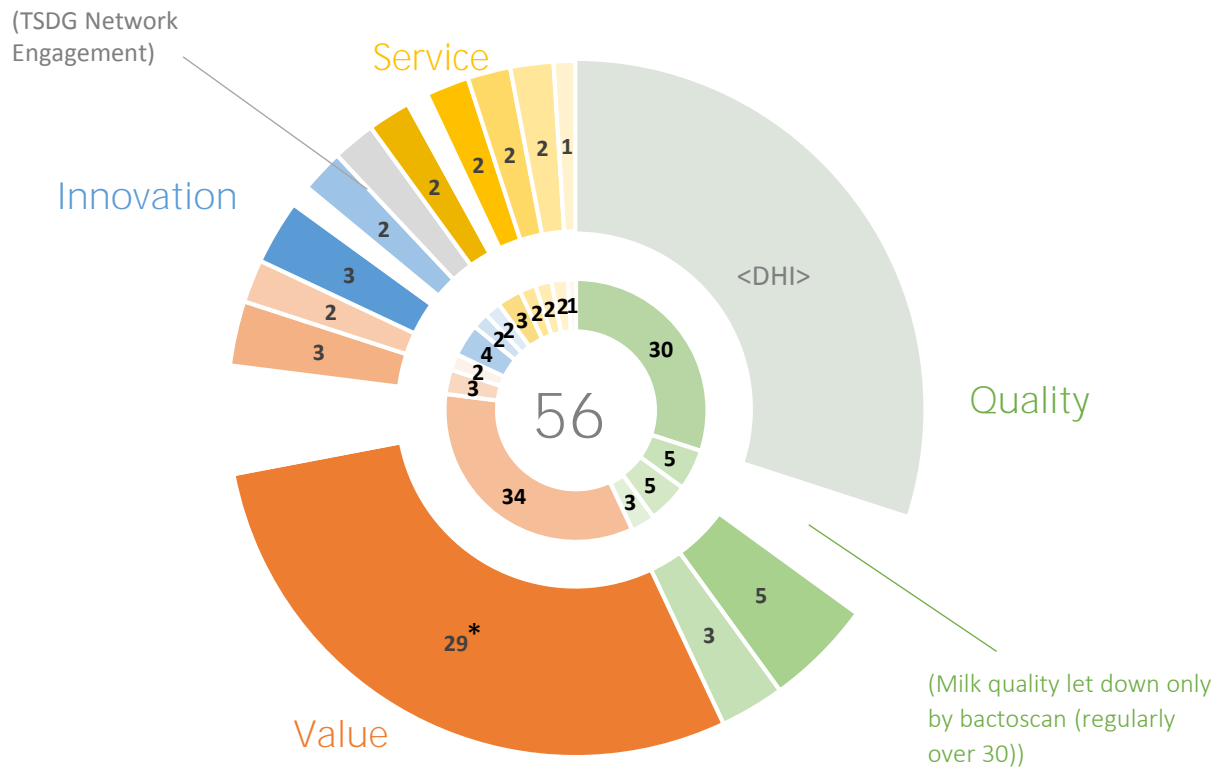
E-CO₂

INCREASING YOUR PROFIT AND PROTECTING THE ENVIRONMENT

Year Analysed:

01/02/2016 - 31/01/2017

Your Results



The QVIS benchmarking system is comprised of four areas - quality (Q), value (V), innovation (I), and service (S). These elements are individually evaluated and then combined to give an overall score out of 100.

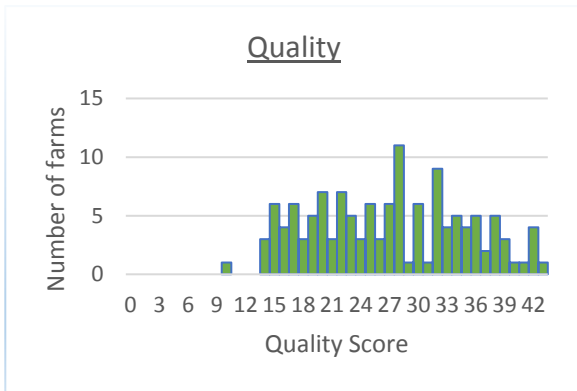
The graphic above shows how your farm's performance (outer ring) fulfills the QVIS ideal (inner ring), and presents your score out of 100 (in the centre). Please note that the greyed out elements were not appraised due to lack of data and, therefore, your overall score may not be fully representative of your farm's performance!

It is important to appreciate that whilst this report uses elements of the Tesco QVIS system, it is not intended to confer suitability for the Tesco Suppliers Dairy Group (TSDG), which can only be decided by Tesco themselves.

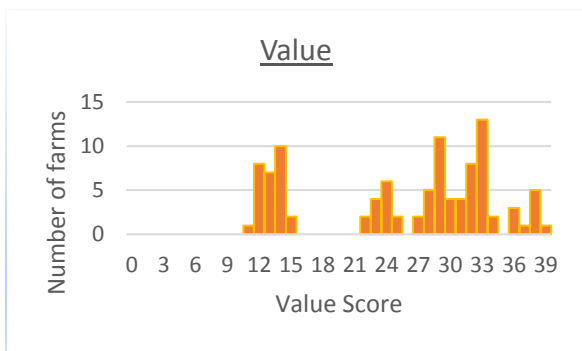
On the following page, you will find the QVIS scoring breakdown and more information on the current score trends within the TSDG group.

*** Please note that the scoring period is not complete, and results will be subject to change.**

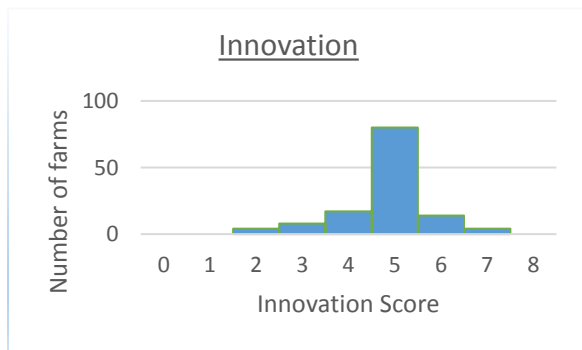
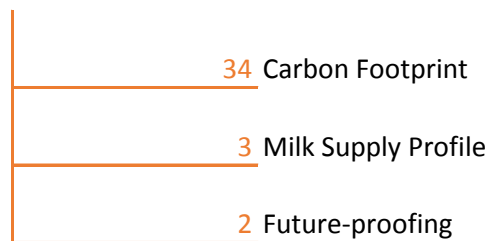
QVIS Breakdown



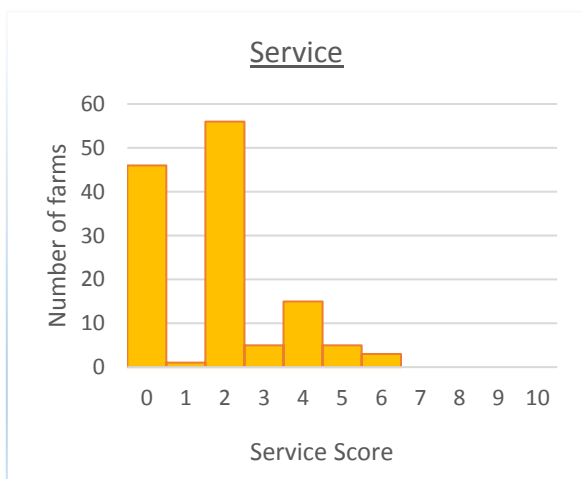
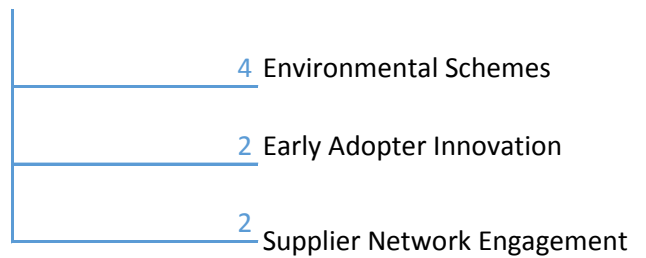
43 Points Available



39 Points Available



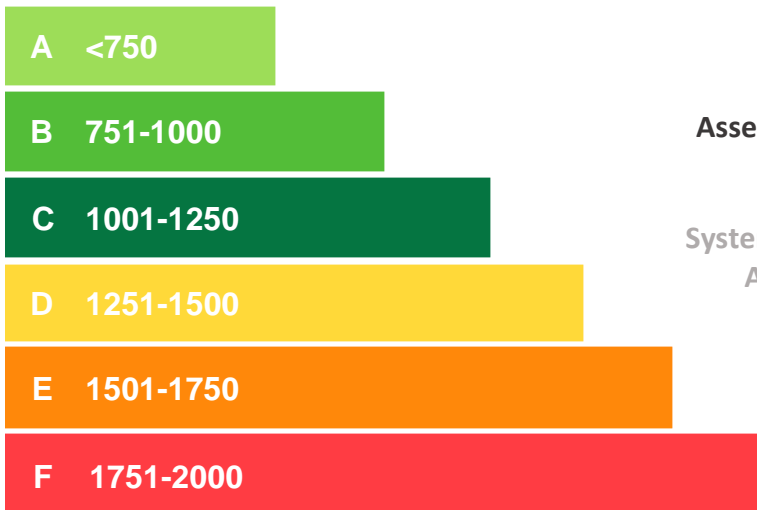
8 Points Available



10 Points Available



Reminder of Your Carbon Results



This Assessment

998

g CO₂e/l FPCM

System Type Average

1185

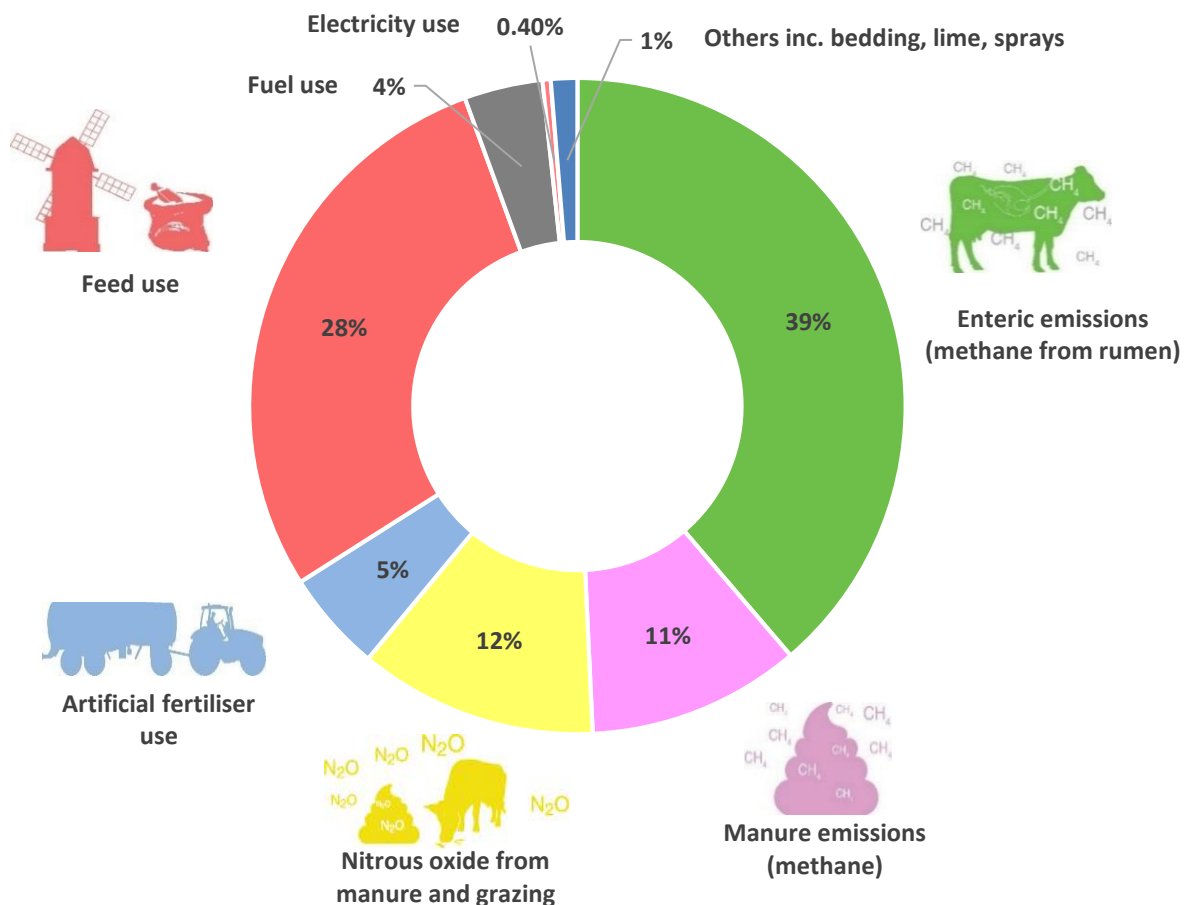
g CO₂e/l FPCM

What does "g CO₂e/l FPCM" mean?

Grams of carbon dioxide equivalent per litre of fat and protein corrected milk produced. The sum of all emissions generated on farm in 365 days, divided by the total volume of fat and protein corrected milk produced.

Your farm emissions by source

This pie chart demonstrates the percentage contribution towards total farm emissions from the dairy enterprise, by their source.



Land, forage and resource use



	This Assessment	System Type Average	Alltech E-CO ₂ Top 10%
Cropping			
Land allocated to dairy	786	ha	
Average M.E. value of winter forage	11	MJ/ kg DM	
Fertiliser Use			
Nitrogen use*	99	130	101 kg N per ha
Phosphate use*	1	10	14 kg P per ha
Potassium use*	1	18	19 kg K per ha
Fuel and Electricity Use			
Total diesel use	163,000	41,352	22,672 litres
Diesel use per cow	110	122	96 litres/cow
Total electricity use (from grid)	120,000	125,207	77,489 kWh
Electricity use per cow (from grid)	81	470	395 kWh/cow
Renewable energy used on-farm	1,620,000	46,449	39,141 kWh
Total recorded mains water use	1,148	4,828	3,474 m ³

Livestock, health and performance



	This Assessment	System Type Average	Alltech E-CO ₂ Top 10%
Herd Size			
Average number of cows	1,485	300	213
Average number of heifers	1,215	226	150
Stocking rate	1.89	2.05	1.58 cows/ha
Milk Production			
Total milk produced	14,197,039	2,854,142	1,818,994 litres FPCM
Average butterfat	4.03	3.96	4.19 %
Average protein	3.32	3.24	3.36 %
Somatic cell count	132,000	166	150 cells/ml
Milk solids produced per cow	718	691	625 kg/cow
Milk solids produced per ha	1,356	1,436	995 kg/ha
Milk produced per cow	9,560	9,258	8,310 litres FPCM/cow/yr
Milk produced per ha	18,098	19,196	13,404 litres FPCM/ha/yr

	This Assessment	System Type Average	Alltech E-CO ₂ Top 10%	
Heifer Management				
Average heifer calving age	24	26	26	months
Average heifer calving weight	560	566	531	kg
Feed Intake				
Average feed rate per litre	0.41	0.41	0.30	kg/litre FPCM
Estimated dry matter intake	23.28	23.54	21.11	kg DM/cow/day
Average feed rate per cow*	3.59	3.34	2.32	tonnes/cow/yr
*concentrates, straights, home grown cereals but excluding moist feeds (concentrate equivalent)				
Herd Health				
Mastitis	413	32	28	cases per 100
Lameness	401	30	22	cases per 100
Milk fever	2	3	5	cases per 100
Displaced abomasum	1	2	1	cases per 100
Metritis	3	11	8	cases per 100
Acidosis	-	2	1	cases per 100
Ketosis	-	3	3	cases per 100
Culling				
Culling rate	30	26	23	%
Average cull cow weight	504	633	589	kg
Calving				
Cows calved in 365 days	93	89	90	%
Calf mortality pre-weaning	3	4	4	%
Calf mortality post-weaning	2	2	2	%
Number of known abortions	-	7	4	

Next steps



To improve
your 'QVIS'
performance
you should aim
to:

Investigate whether any changes can be made to improve your milk's bacto-scan results

Consider whether you could extend the scope and/ or detail of your environmental management (or recording thereof!)

Reduce diesel consumption

Improving efficiency, reducing carbon



OVER 6,000
ENVIRONMENTAL
ASSESSMENTS WORLDWIDE

OVER
5,000

Dairy-EA and Dairy Swift-
EA ASSESSMENTS

PAS 2050
standard for
EA+Swift EA



CONSISTANT WITH

IDF

METHODOLOGY

776,770
COWS ASSESSED



AVERAGE HERD SIZE

180



106

gCO₂e/litre

AVERAGE
DECREASE IN
FOOTPRINT



96L FPCM/cow



AVERAGE
INCREASE IN
MILK YIELD

12 GRAMS

AVERAGE
REDUCTION IN
FEED/ LITRE



44 kWh

AVERAGE REDUCTION IN
ELECTRICITY USE /COW



More information



If you would like more information about this report or your assessment, please contact a member of the Alltech E-CO₂ team on **+44 1270 522645**.

Furthermore, if you would like further practical advice and consultancy to achieve the opportunities outlined in this report, please contact Alltech E-CO₂ at **enquiries@Alltech-E-CO2.com**





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