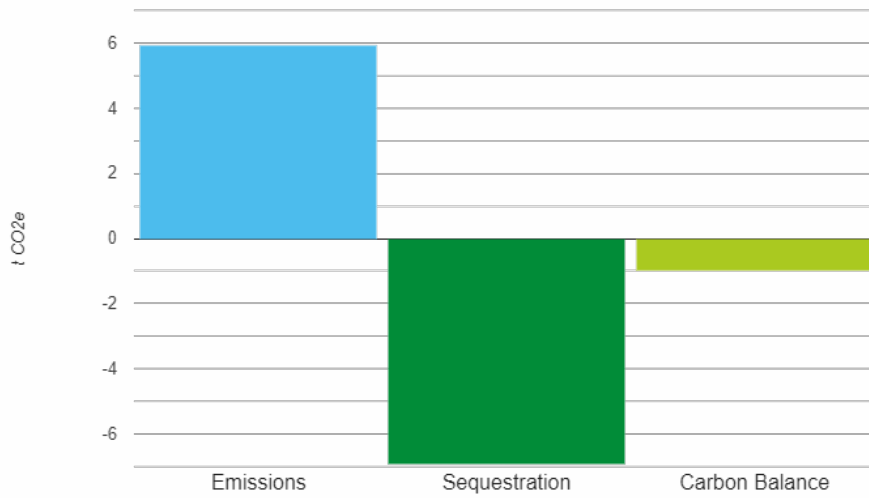




Farm Carbon Calculator

Hort Wales 02 Apr 2020

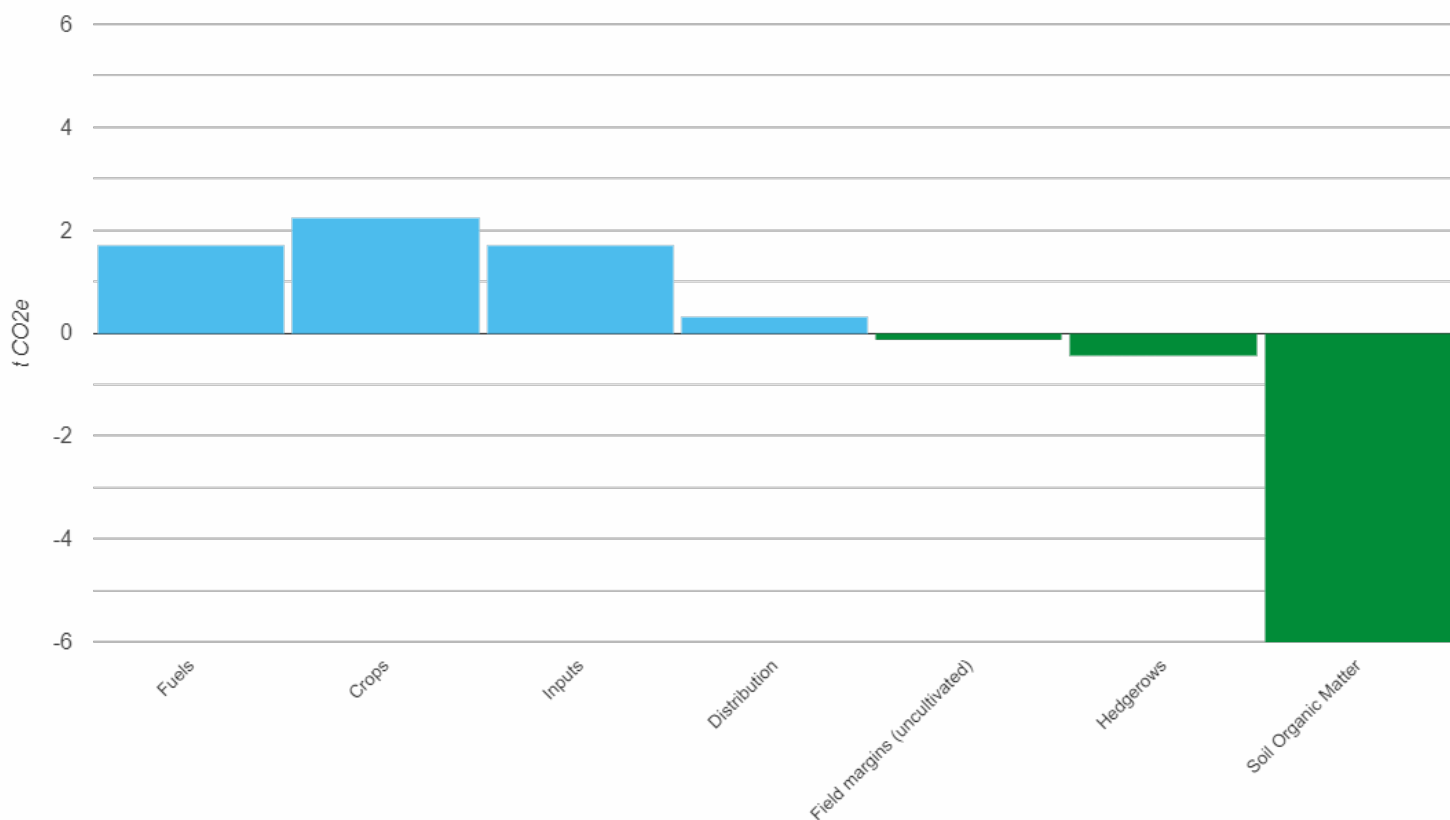
Summary



-0.99

tonnes CO₂e per year

Sequestered



Carbon Balance: -0.99 tonnes CO₂e per year

Carbon Balance per hectare: -0.44 tonnes/year/hectare

Carbon Balance per tonnes of product: -0.99 tonnes/year/product

Emissions	tonnes CO ₂ e	%
Fuels	1.70	28.56%
Crops	2.24	37.81%
Inputs	1.69	28.42%
Distribution	0.31	5.21%
Total	5.94	100%

Sequestration	tonnes CO ₂ e	%
Field Margins (Uncultivated)	-0.12	1.72%

Hedgerows	-0.43	6.23%
Soil Organic Matter	-6.38	92.05%
Total	-6.93	100%

Farm details

Farm name Hort Wales

Soil Type

Clay loam

Date of report 02-04-2020

Farm area (hectares)

Cultivated	2
Grass	0
Non-cropping	0.25
Total	2.25

Detailed Summary

Category	Item	tonnes CO ₂ e	% total emissions
Fuels			
	Liquid fuels	1.70	28.56%
	Total	1.70	28.56%
Fuels - Offsets			
	Liquid fuels	0.00	0.00%
Materials			
Inventory			
Crops			
	Lime and mineral fertilisers	1.10	18.53%
	Green Manures	0.67	11.26%
	Horticultural crops	0.45	7.63%

	Plant raising media	0.02	0.39%
	Total	2.24	37.81%
Inputs			
	Fertiliser	1.69	28.40%
	Sprays	0.00	0.02%
	Total	1.69	28.42%
Livestock			
Waste			
Waste - Offsets			
Distribution			
	Road	0.31	5.21%
	Total	0.31	5.21%
Sequestration			
	Soil Organic Matter	-6.38	92.05%
	Hedgerows	-0.43	6.23%
	Field margins (uncultivated)	-0.12	1.72%
	Total	-6.93	100.00%
SOM Inventory			





Year	2015	2016	2017	2018	2019	2020
SOM (%)	4.8	4.8	4.8	4.9	4.9	5.0

Land use

Full Data





Fuels

Liquid fuels

Description	Usage	tonnes CO ₂ e	%	Confidence	Link
Red diesel	500 litres	1.70	100.00%	  	

Fuels - Offsets

Liquid fuels

Description	Usage	tonnes CO ₂ e	%	Confidence	Link
Red diesel	500 litres	0.00	nan%	  	

Materials

Inventory

Crops

Green Manures

Description	Usage	tonnes CO ₂ e	%	Confidence	Link
-------------	-------	--------------------------	---	------------	------

Red clover	1 hectares	0.50	22.36%			
Vetch	0 hectares	0.17	7.42%			

Horticultural crops

Description	Usage	tonnes CO ₂ e	%	Confidence	Link		
Potatoes	10 Harvest in t	0.31	13.91%				
Vegetables (general)	15 Harvest in t	0.14	6.26%				

Mineral

Description	Usage	tonnes CO ₂ e	%	Confidence	Link		
Rock phosphate	1 tonnes of P	1.10	49.01%				

Plant raising media

Description	Usage	tonnes CO ₂ e	%	Confidence	Link	
Green Waste Compost	800 litres	0.02	1.03%			

Inputs

Fertiliser

Description	Usage	tonnes CO ₂ e	%	Confidence	Link		
Ammonium Nitrate	1 tonnes of product	1.69	99.92%				

Sprays

Description	Usage	tonnes CO ₂ e	%	Confidence	Link	
Fungicide	0 kg of active ingredient	0.00	0.04%			
Herbicide	0 kg of active ingredient	0.00	0.02%			

Insecticide

0 kg of active ingredient

0.00

0.02%



Livestock

Waste

Waste - Offsets

Distribution

Road

Description	Usage	tonnes CO ₂ e	%	Confidence	Link
Van (up to 3.5t)	10 miles	0.31	100.00%		

Sequestration

Description	Usage	tonnes CO ₂ e	%	Confidence	Link
Field margins (uncultivated)	600 total length (m)	-0.12	1.72%		
Soil Organic Matter	2 hectares	-6.38	92.05%		

Hedgerows

Description	Usage	tonnes CO ₂ e	%	Confidence	Link
Hedgerows (large growth)	600 metres total length	-0.43	6.23%		

SOM Inventory

1

Year	2015	2016	2017	2018	2019	2020
SOM (%)	4.8	4.8	4.8	4.9	4.9	5.0

Land use