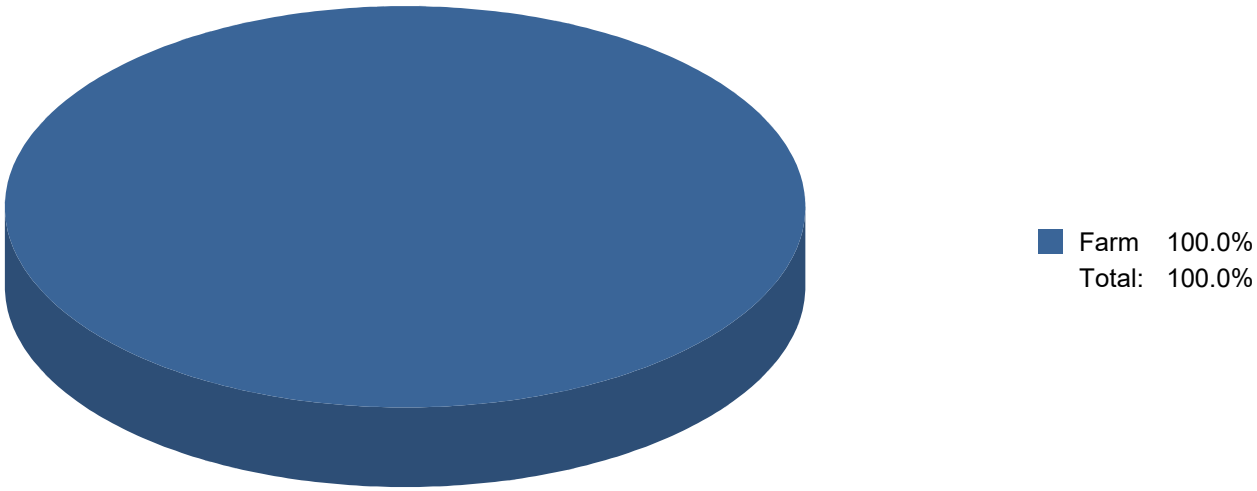
Carbon Calculator Results

Business Name:	Glen Fruin Farms
Country Name:	South Africa
Creation Date:	11/17/2025 6:50:59AM
Data Collection Period:	Jun 2024 to May 2025
Report Grade:	B1 - This dataset has been checked by CCC and is part of the benchmark.

Business Unit - Boundary View



Boundary	Tonne CO_2e	%
Farm	1,221.56	100.00
Total	**1,221.56**	**100.00**

The Carbon Calculator must be completed on an annual basis. This allows users to monitor their carbon footprint trend and analyse improvements.

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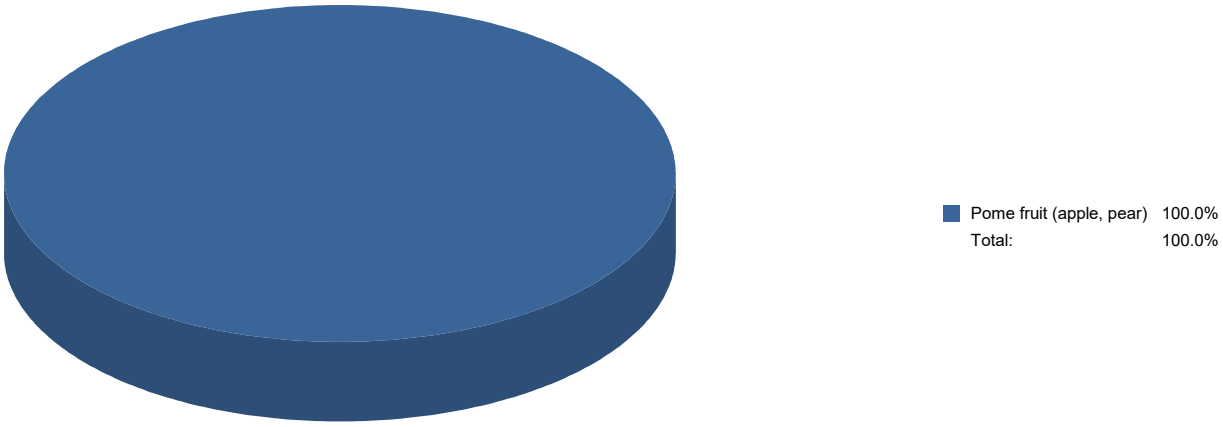
Business Unit - Commodity View



Commodity	Tonne CO_2e	%
Pome fruit (apple, pear)	1,221.56	100.00
Total	**1,221.56**	**100.00**

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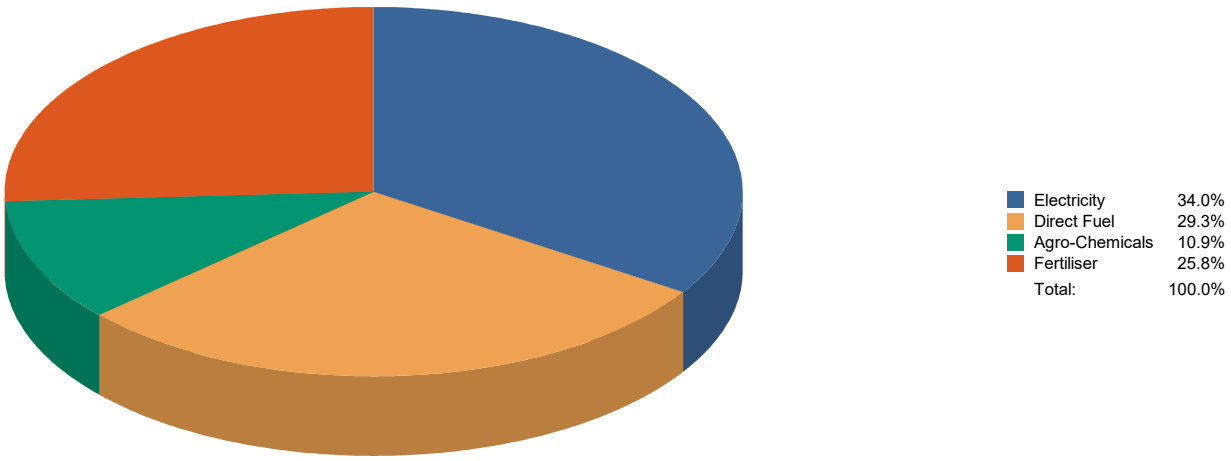
Farm - Emission Source View



Emission Source	Tonne CO_2e	%
Electricity	415.83	34.04
Direct Fuel	357.91	29.30
Agro-Chemicals	132.73	10.87
Fertiliser	315.09	25.79
Total	**1,221.56**	**100.00**

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Farm Commodity Benchmark

Commodity	Kg CO2e per Kg Fruit	Benchmark
Pome fruit (apple, pear)	0.08	The CCC regional average is 0.11 Kg CO2e per Kg Fruit and consist of 111 data points.

Farm Hectare Breakdown

Commodity	Tonne CO_2e per Bearing Ha
Pome fruit (apple, pear)	6.64

Farm Scope Breakdown

	Tonne CO_2e	%
Scope 1	511.52	41.87
Scope 2	413.18	33.82
Scope 3	296.85	24.30
Total	**1,221.56**	**100.00**

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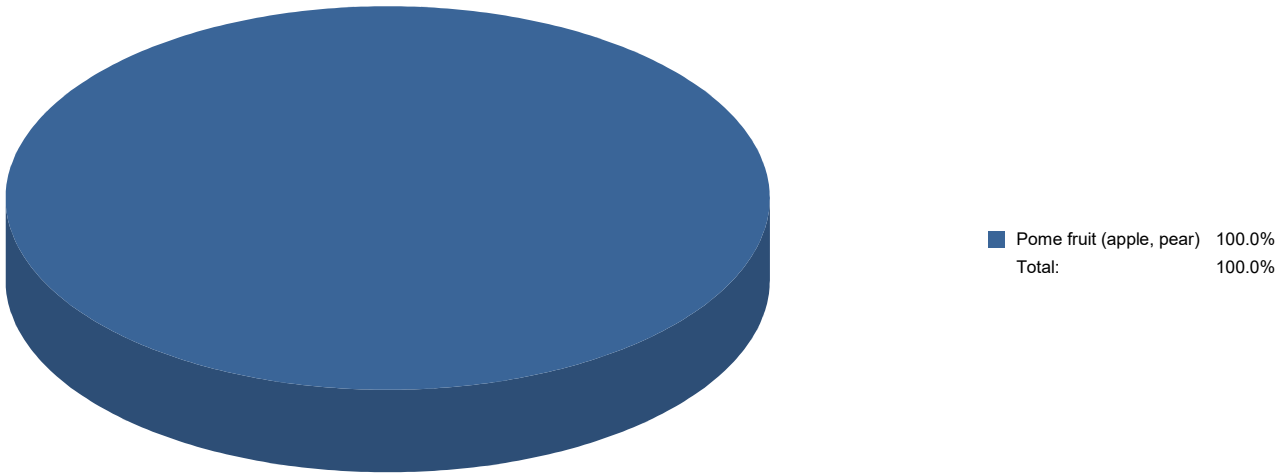
Farm - Commodity View



Commodity	Tonne CO_2e	%
Pome fruit (apple, pear)	1,221.56	100.00
Total	**1,221.56**	**100.00**

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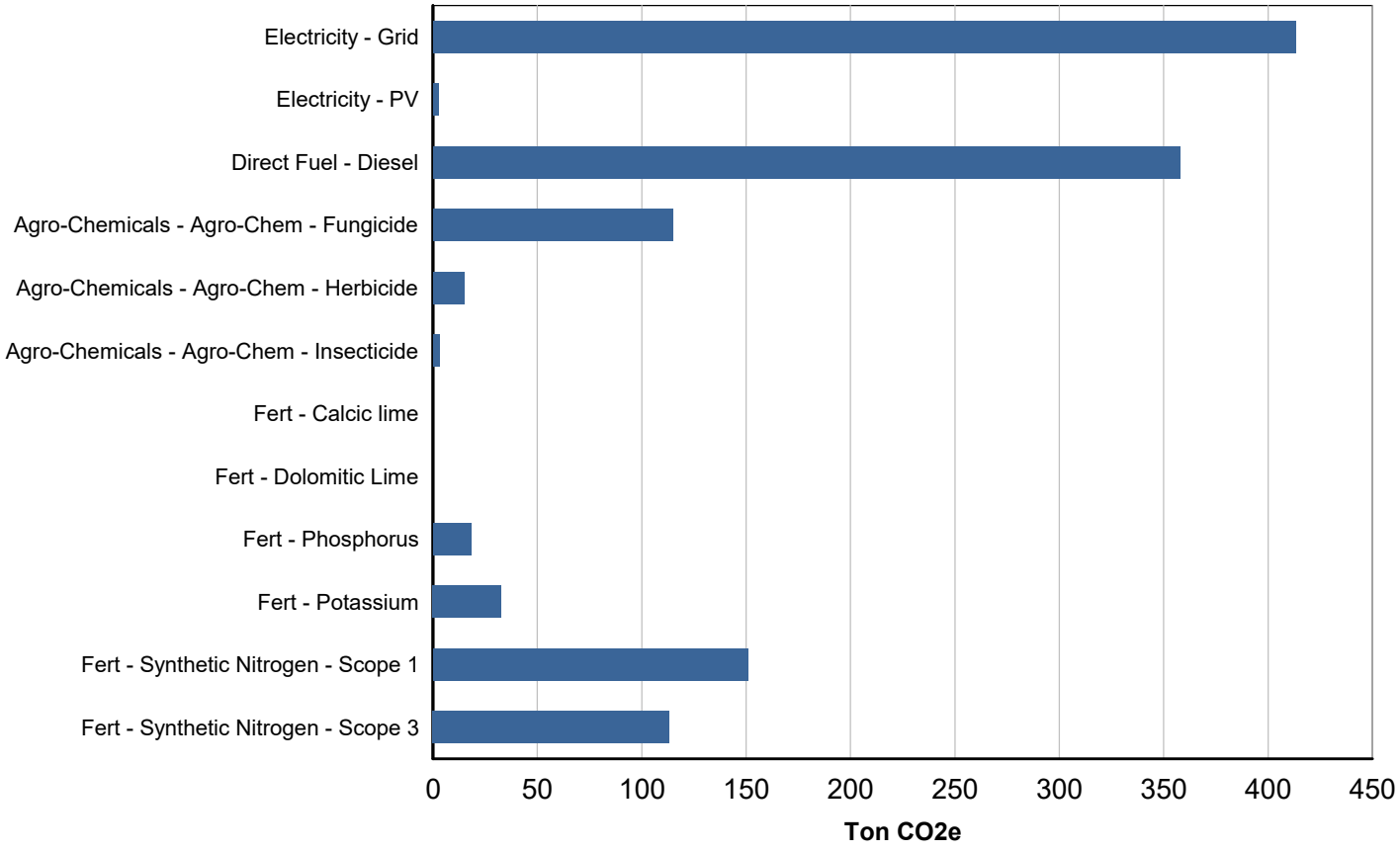
Farm - Emission Source Breakdown



Emission Source	Tonne CO_2e	%
Electricity - Grid	413.18	33.82
Electricity - PV	2.65	0.22
Direct Fuel - Diesel	357.91	29.30
Agro-Chemicals - Agro-Chem - Fungicide	114.65	9.39
Agro-Chemicals - Agro-Chem - Herbicide	15.11	1.24
Agro-Chemicals - Agro-Chem - Insecticide	2.97	0.24
Fert - Calcic lime	0.01	0.00
Fert - Dolomitic Lime	0.02	0.00
Fert - Phosphorus	18.19	1.49
Fert - Potassium	32.68	2.68
Fert - Synthetic Nitrogen - Scope 1	150.96	12.36
Fert - Synthetic Nitrogen - Scope 3	113.22	9.27

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Total	**1,221.56**	**100.00**

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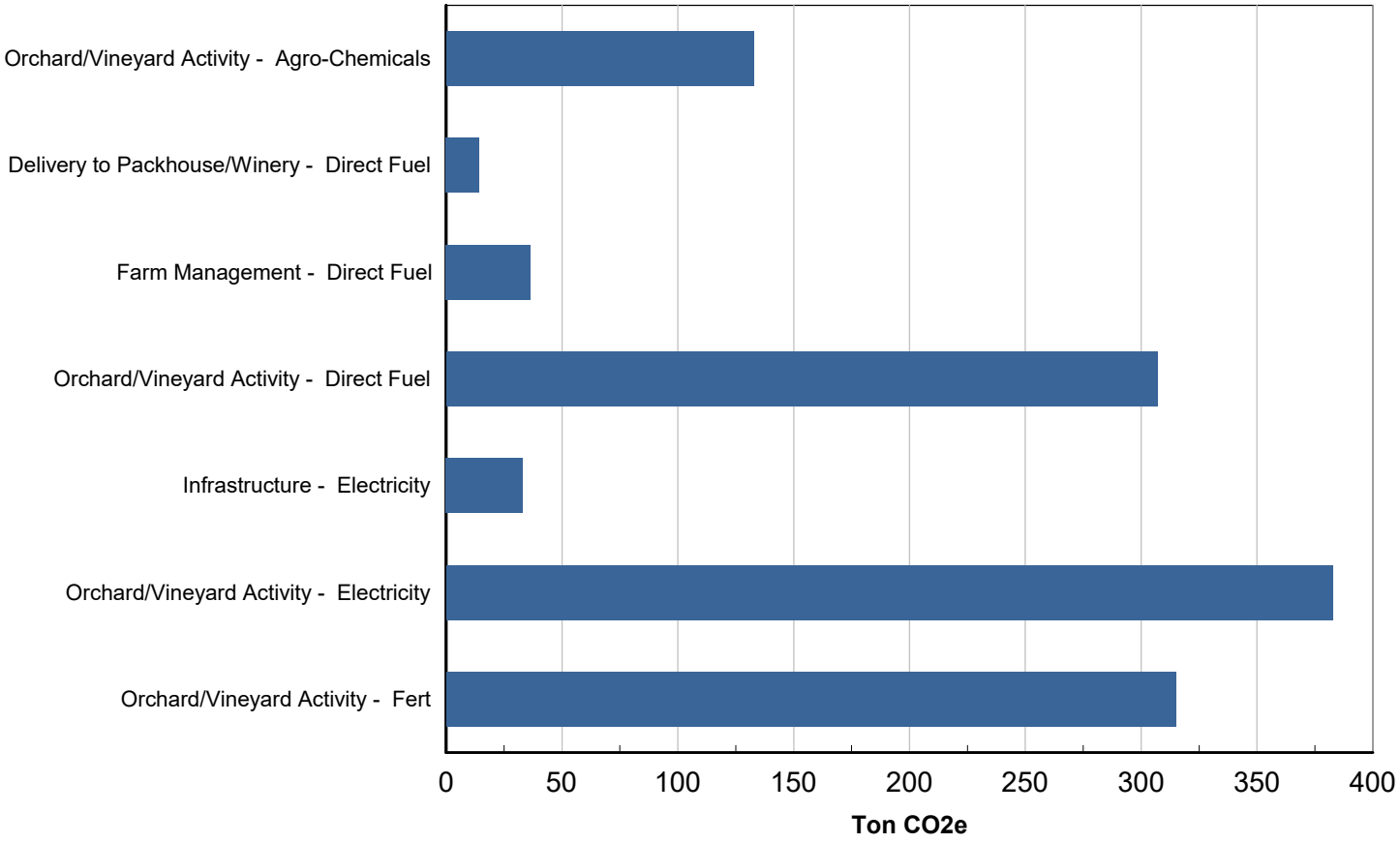
Farm - Activity Breakdown



Activity Breakdown	Tonne CO_2e	%
Orchard/Vineyard Activity - Agro-Chemicals	132.73	10.87
Delivery to Packhouse/Winery - Direct Fuel	14.42	1.18
Farm Management - Direct Fuel	36.48	2.99
Orchard/Vineyard Activity - Direct Fuel	307.01	25.13
Infrastructure - Electricity	33.21	2.72
Orchard/Vineyard Activity - Electricity	382.63	31.32
Orchard/Vineyard Activity - Fert	315.09	25.79
Total	**1,221.56**	**100.00**

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Detailed Carbon Emissions Breakdown

Detailed Activities	Tonne CO_2e	%
Electricity - Grid - Orchard/Vineyard Activity - BO	356.19	29.16
Electricity - Grid - Orchard/Vineyard Activity - NBO	24.58	2.01
Electricity - Grid - Infrastructure	32.42	2.65
Electricity - PV - Orchard/Vineyard Activity - BO	1.74	0.14
Electricity - PV - Orchard/Vineyard Activity - NBO	0.12	0.01
Electricity - PV - Infrastructure	0.79	0.06
Direct Fuel - Diesel - Orchard/Vineyard Activity - BO	287.05	23.50
Direct Fuel - Diesel - Orchard/Vineyard Activity - NBO	19.96	1.63
Direct Fuel - Diesel - Delivery to Packhouse/Winery	14.42	1.18
Direct Fuel - Diesel - Farm Management	36.48	2.99
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - BO	253.28	20.73
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - NBO	10.91	0.89
Fert - - Phosphorus - Orchard/Vineyard Activity - BO	18.15	1.49
Fert - - Phosphorus - Orchard/Vineyard Activity - NBO	0.04	0.00
Fert - - Potassium - Orchard/Vineyard Activity - BO	31.61	2.59
Fert - - Potassium - Orchard/Vineyard Activity - NBO	1.07	0.09
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - BO	107.25	8.78
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - NBO	7.40	0.61
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - BO	2.80	0.23
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - NBO	0.17	0.01
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - BO	13.33	1.09
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - NBO	1.78	0.15
Fert - - Dolomitic Lime - Orchard/Vineyard Activity - BO	0.02	0.00
Fert - - Calcic lime - Orchard/Vineyard Activity - BO	0.01	0.00
Total	**1,221.56**	**100.00**

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Farm Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Pome fruit (apple, pear)	kL Water per Ton Fruit	77.84	The CCC regional average is 73.58 kL Water per Ton Fruit and consist of 105 data points.
Pome fruit (apple, pear)	kL Water per Bearing Ha	6,718.28	The CCC regional average is 4610.11 kL Water per Bearing Ha and consist of 105 data points.
Pome fruit (apple, pear)	kL Water per Non-Bearing Ha	6,957.75	The CCC regional average is 3101.15 kL Water per Non-Bearing Ha and consist of 105 data points.
Pome fruit (apple, pear)	kWh Orchard / Vineyard Electricity per Ton Fruit	26.64	The CCC regional average is 46.41 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 105 data points.
Pome fruit (apple, pear)	kWh Orchard / Vineyard Electricity per Bearing Ha	2,299.42	The CCC regional average is 2600.01 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 105 data points.
Pome fruit (apple, pear)	Liters Orchard / Vineyard Diesel per Ton Fruit	7.71	The CCC regional average is 7.32 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 105 data points.
Pome fruit (apple, pear)	Liters Orchard / Vineyard Diesel per Bearing Ha	665.70	The CCC regional average is 429.96 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 105 data points.
Pome fruit (apple, pear)	Kg Pure N per Ton Fruit	1.15	The CCC regional average is 1.35 Kg Pure N per Ton Fruit and consist of 105 data points.
Pome fruit (apple, pear)	Kg Pure N per Bearing Ha	99.08	The CCC regional average is 80.95 Kg Pure N per Bearing Ha and consist of 105 data points.

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