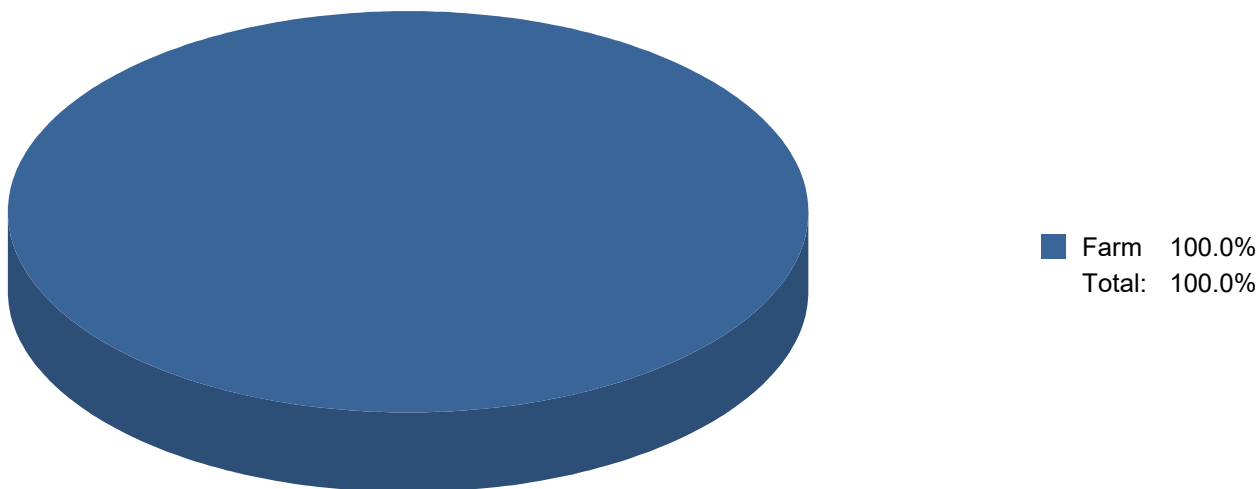


Carbon Calculator Results

Business Name: Graaff Fruit - Romansrivier
Country Name: South Africa
Creation Date: 2025/11/10 13:56:49
Data Collection Period: Jul 2024 to Jun 2025
Report Grade: B1 - This dataset has been checked by CCC and is part of the benchmark.

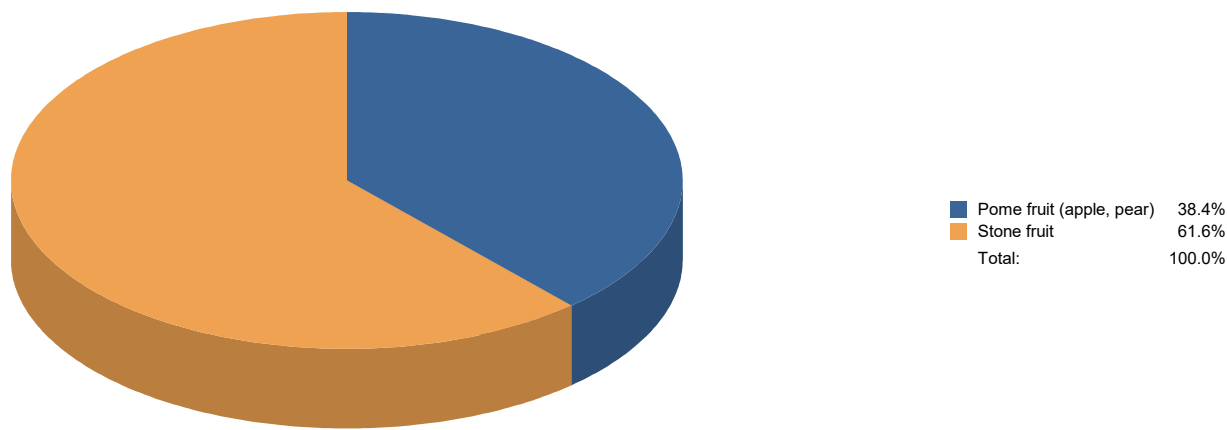
Business Unit - Boundary View



Boundary	Tonne CO ₂ e	%
Farm	1,062.89	100.00
Total	1,062.89	100.00

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

Business Unit - Commodity View



Commodity	Tonne CO ₂ e	%
Pome fruit (apple, pear)	408.39	38.42
Stone fruit	654.50	61.58
Total	1,062.89	100.00

Business Name:

Graaff Fruit - Romansrivier

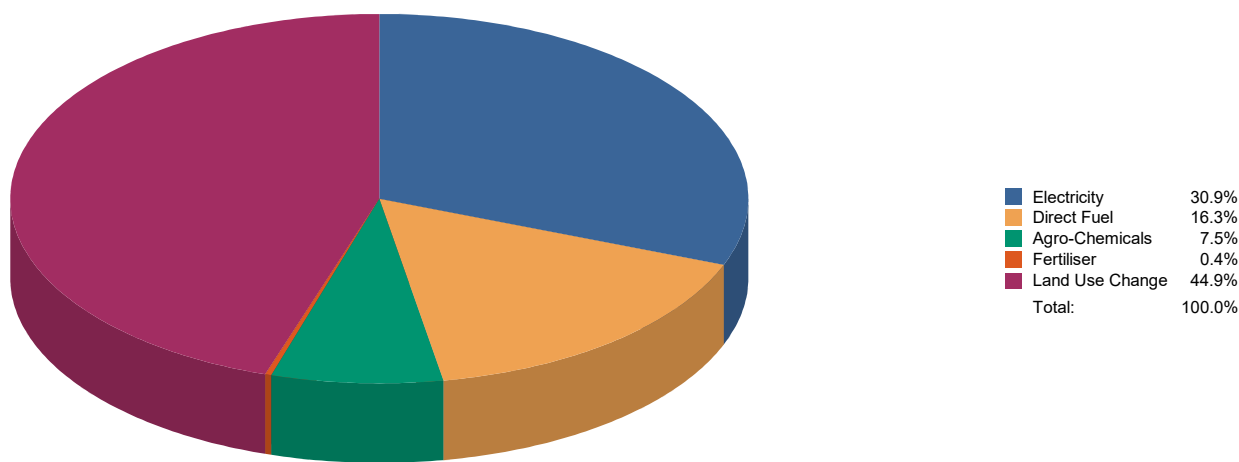
Dataset:

2025/11/10 13:56:49

Data Collection Period:

Jul 2024 to Jun 2025

Farm - Emission Source View



Emission Source	Tonne CO ₂ e	%
Electricity	328.08	30.87
Direct Fuel	173.76	16.35
Agro-Chemicals	79.67	7.50
Fertiliser	3.87	0.36
Land Use Change	477.51	44.93
Total	1,062.89	100.00

Business Name:

Graaff Fruit - Romansrivier

Dataset:

2025/11/10 13:56:49

Data Collection Period:

Jul 2024 to Jun 2025

Farm Commodity Benchmark

Commodity	Kg CO2e per Kg Fruit	Benchmark
Pome fruit (apple, pear)	0.14	The CCC regional average is 0.14 Kg CO2e per Kg Fruit and consist of 92 data points.
Stone fruit	0.27	The CCC regional average is 0.24 Kg CO2e per Kg Fruit and consist of 78 data points.

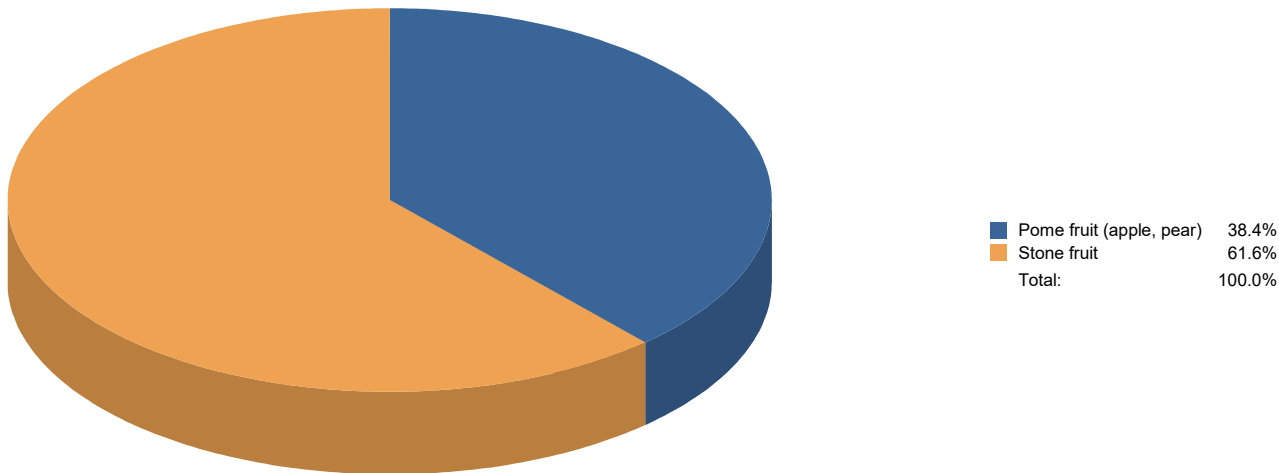
Farm Hectare Breakdown

Commodity	Tonne CO ₂ e per Bearing Ha
Pome fruit (apple, pear)	9.79
Stone fruit	7.03

Farm Scope Breakdown

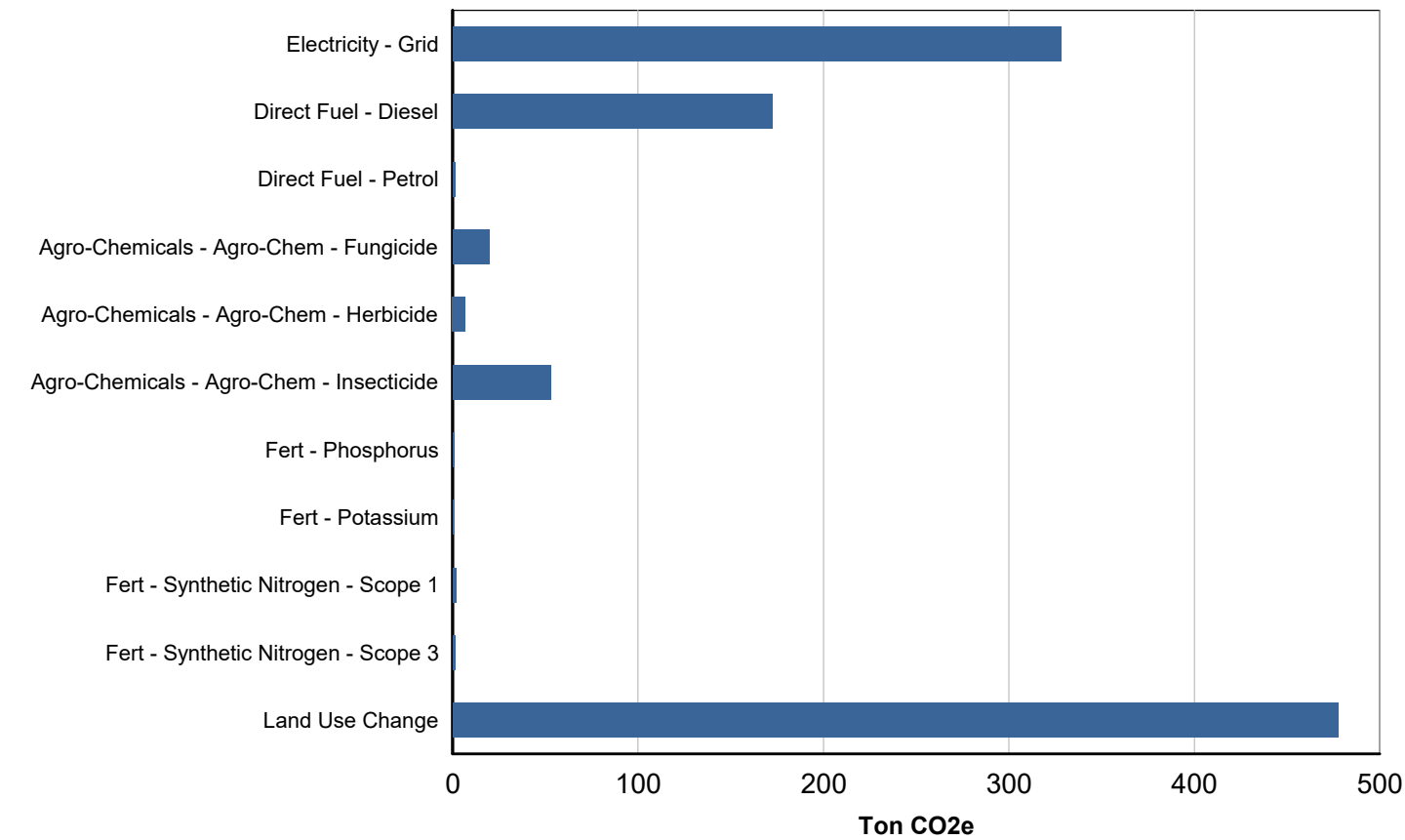
	Tonne CO ₂ e	%
Scope 1	653.04	61.44
Scope 2	328.08	30.87
Scope 3	81.77	7.69
Total	1,062.89	100.00

Farm - Commodity View



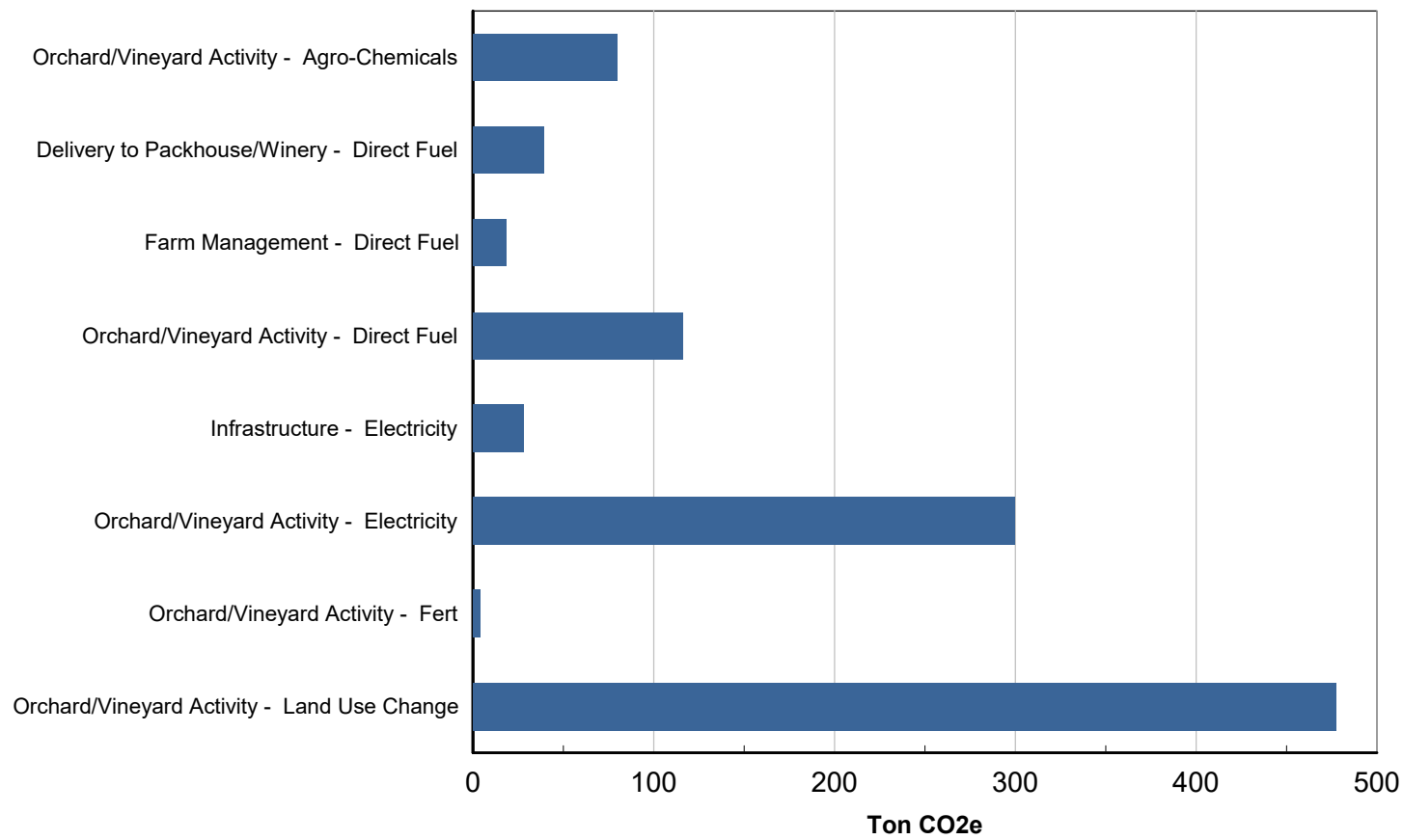
Commodity	Tonne CO ₂ e	%
Pome fruit (apple, pear)	408.39	38.42
Stone fruit	654.50	61.58
Total	1,062.89	100.00

Farm - Emission Source Breakdown



Emission Source	Tonne CO ₂ e	%
Electricity - Grid	328.08	30.87
Direct Fuel - Diesel	172.38	16.22
Direct Fuel - Petrol	1.38	0.13
Agro-Chemicals - Agro-Chem - Fungicide	19.84	1.87
Agro-Chemicals - Agro-Chem - Herbicide	6.82	0.64
Agro-Chemicals - Agro-Chem - Insecticide	53.01	4.99
Fert - Phosphorus	0.57	0.05
Fert - Potassium	0.21	0.02
Fert - Synthetic Nitrogen - Scope 1	1.77	0.17
Fert - Synthetic Nitrogen - Scope 3	1.33	0.13
Land Use Change	477.51	44.93
Total	1,062.89	100.00

Farm - Activity Breakdown



Activity Breakdown	Tonne CO ₂ e	%
Orchard/Vineyard Activity - Agro-Chemicals	79.67	7.50
Delivery to Packhouse/Winery - Direct Fuel	39.08	3.68
Farm Management - Direct Fuel	18.31	1.72
Orchard/Vineyard Activity - Direct Fuel	116.36	10.95
Infrastructure - Electricity	28.22	2.66
Orchard/Vineyard Activity - Electricity	299.86	28.21
Orchard/Vineyard Activity - Fert	3.87	0.36
Orchard/Vineyard Activity - Land Use Change	477.51	44.93
Total	1,062.89	100.00

Business Name:Graaff Fruit - Romansrivier

Dataset:2025/11/10 13:56:49

Data Collection Period:Jul 2024 to Jun 2025

Detailed Carbon Emissions Breakdown

Detailed Activities	Tonne CO ₂ e	%
Electricity - Grid - Orchard/Vineyard Activity - BO	263.87	24.83
Electricity - Grid - Orchard/Vineyard Activity - NBO	35.98	3.39
Electricity - Grid - Infrastructure	28.22	2.66
Direct Fuel - Diesel - Orchard/Vineyard Activity - BO	102.40	9.63
Direct Fuel - Diesel - Orchard/Vineyard Activity - NBO	13.96	1.31
Direct Fuel - Diesel - Delivery to Packhouse/Winery	39.08	3.68
Direct Fuel - Diesel - Farm Management	16.93	1.59
Direct Fuel - Petrol - Farm Management	1.38	0.13
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - BO	3.10	0.29
Fert - - Phosphorus - Orchard/Vineyard Activity - BO	0.57	0.05
Fert - - Potassium - Orchard/Vineyard Activity - BO	0.21	0.02
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - BO	8.75	0.82
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - NBO	11.08	1.04
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - BO	21.34	2.01
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - NBO	31.67	2.98
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - BO	3.43	0.32
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - NBO	3.39	0.32
Land Use Change - Grass land - Orchard/Vineyard Activity	477.51	44.93
Total	1,062.89	100.00

Business Name: Graaff Fruit - Romansrivier

Dataset: 2025/11/10 13:56:49

Data Collection Period: Jul 2024 to Jun 2025

Farm Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Pome fruit (apple, pear)	kL Water per Ton Fruit	293.91	The CCC regional average is 132.10 kL Water per Ton Fruit and consist of 69 data points.
Pome fruit (apple, pear)	kL Water per Bearing Ha	20,454.59	The CCC regional average is 6148.61 kL Water per Bearing Ha and consist of 69 data points.
Pome fruit (apple, pear)	kWh Orchard / Vineyard Electricity per Ton Fruit	41.38	The CCC regional average is 64.82 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 69 data points.
Pome fruit (apple, pear)	kWh Orchard / Vineyard Electricity per Bearing Ha	2,880.08	The CCC regional average is 3043.30 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 69 data points.
Pome fruit (apple, pear)	Liters Orchard / Vineyard Diesel per Ton Fruit	6.56	The CCC regional average is 12.21 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 69 data points.
Pome fruit (apple, pear)	Liters Orchard / Vineyard Diesel per Bearing Ha	456.59	The CCC regional average is 468.62 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 69 data points.
Pome fruit (apple, pear)	Kg Pure N per Ton Fruit	0.02	The CCC regional average is 2.47 Kg Pure N per Ton Fruit and consist of 69 data points.
Pome fruit (apple, pear)	Kg Pure N per Bearing Ha	1.54	The CCC regional average is 95.86 Kg Pure N per Bearing Ha and consist of 69 data points.

Commodity	Consumption Measure	Result	Benchmark
Stone fruit	kL Water per Ton Fruit	198.08	The CCC regional average is 173.47 kL Water per Ton Fruit and consist of 60 data points.
Stone fruit	kL Water per Bearing Ha	5,120.22	The CCC regional average is 4922.63 kL Water per Bearing Ha and consist of 60 data points.
Stone fruit	kWh Orchard / Vineyard Electricity per Ton Fruit	69.24	The CCC regional average is 79.21 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 60 data points.
Stone fruit	kWh Orchard / Vineyard Electricity per Bearing Ha	1,789.83	The CCC regional average is 2294.22 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 60 data points.
Stone fruit	Liters Orchard / Vineyard Diesel per Ton Fruit	10.98	The CCC regional average is 13.42 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 60 data points.
Stone fruit	Liters Orchard / Vineyard Diesel per Bearing Ha	283.74	The CCC regional average is 352.47 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 60 data points.
Stone fruit	Kg Pure N per Ton Fruit	0.07	The CCC regional average is 4.16 Kg Pure N per Ton Fruit and consist of 60 data points.
Stone fruit	Kg Pure N per Bearing Ha	1.79	The CCC regional average is 109.00 Kg Pure N per Bearing Ha and consist of 60 data points.

Business Name: Graaff Fruit - Romansrivier
Dataset: 2025/11/10 13:56:49
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